Troubleshooting Guide
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About this guide

*IBM Tivoli OMEGAMON XE for Storage on z/OS: Troubleshooting Guide* provides problem determination and resolution information for the issues most commonly encountered with Tivoli OMEGAMON XE for Storage on z/OS. You can use this guide in conjunction with the other books in the IBM Tivoli Monitoring documentation library. To learn about this family of products: [http://www-306.ibm.com/software/tivoli/solutions/availability/products.html](http://www-306.ibm.com/software/tivoli/solutions/availability/products.html)

Users of this book need to be familiar with the product and with performance monitoring concepts. If you use IBM Tivoli Data Warehouse, you need to be familiar with the operating system that hosts the warehouse.
Chapter 1. General troubleshooting for the OMEGAMON XE monitoring agent on z/OS

Service information about the distributed components of Tivoli Management Services and service tasks common to both distributed and z/OS® environment is documented in IBM Tivoli Monitoring: Troubleshooting Guide. That book also explains diagnostic tools and setting up tracing for the various distributed components of Tivoli® Management Services.

This section provides an overview of service information that you must collect about a z/OS monitoring agent and instructions for setting traces and collecting logs for your own use and to forward to IBM Software Support. These topics are covered:

- Troubleshooting flow for an OMEGAMON XE monitoring agent on z/OS
- Determining whether the problem was caused by an OMEGAMON XE monitoring agent on z/OS
- Redirecting input of the RAS1 tracing parameters member
- Understanding and using RAS1 logs
- Capturing z/OS logs to send to IBM Software Support
- Setting trace levels on a Tivoli Enterprise Monitoring Server on z/OS using the Configuration Tool

Troubleshooting flow for an OMEGAMON XE monitoring agent on z/OS

When you encounter a problem with any component, the primary troubleshooting feature is logging. Logging refers to the writing of text messages and trace data generated by the software to an output destination, such as a console screen or a file. An OMEGAMON XE monitoring agent on z/OS does not display messages at the Tivoli Enterprise Portal. Instead, messages are sent to more typical z/OS output locations, such as sysout data sets or spool files or, more rarely, to the z/OS system console. Logging is enabled on all monitoring agents by default.

Tracing, on the other hand, creates a record of the processing of a computer program or transaction. Trace logs capture information about the operating environment when component software fails to operate as intended to help you diagnose problems. The principal log type is the reliability, availability, and serviceability (RAS1) trace log. When the Tivoli Management Services z/OS components are initialized, RAS1 service initialization is one of the first processes started. RAS logs are in the English language only. The RAS trace log mechanism is available on the Tivoli Enterprise Monitoring Server, the Tivoli Enterprise Portal Server, and the monitoring agents. Most logs are located in a logs subdirectory on the host computer.

By default, an OMEGAMON XE monitoring agent on z/OS has minimal tracing enabled. The setting RAS1=ERROR means that only error messages are captured. When you report a problem, IBM Software Support might ask you to enable a more in-depth and detailed form of tracing, such as one of those discussed under “Syntax for RAS1 traces” on page 7.

IBM® Software Support uses the information captured by trace logging to trace a problem to its source or to determine why an error occurred. The default configuration for trace logging, such as the level of trace logging, depends on the source of the trace logging. Trace logging is always enabled.

Attention: There is CPU and I/O overhead associated with detailed RAS1 tracing that might degrade performance of the monitoring agent. You must restore RAS1 tracing to the minimal KBB_RAS1=ERROR after problem diagnosis is completed.

The specific process for troubleshooting the OMEGAMON® XE for Storage on z/OS monitoring agent is described in “How to troubleshoot problems in Tivoli OMEGAMON XE for Storage on z/OS” on page 32.
Determining whether the problem was caused by an OMEGAMON XE monitoring agent on z/OS

This section describes how to identify problems caused by a specific OMEGAMON XE monitoring agent. Sometimes it is difficult to trace the origin of a problem. For example, a problem might first be displayed in a Tivoli Enterprise Portal client, but the client is reflecting a more basic problem with the Tivoli Enterprise Monitoring Server.

In any problem scenario, all documentation should be gathered at the time of the error. What appears to be a client problem could very well be a server problem, especially in the scenario where data is not showing up at the client. Below are guidelines for collecting the correct documentation for any problems reported.

As you collect logs, create an exact description of the problem. For reproducible problems, document the exact navigation path that produced the error. Screen prints might also help in the problem determination.

In your problem report, try to use the correct terminology when describing the problem (for example, workspaces, views, navigators, events, and links). Consistent use of the terminology helps IBM Software Support to understand the problem quickly.

The sections that follow discuss types of problems that you might see and how to capture information needed to diagnose those problems.

Reproducible problems reported as Tivoli Enterprise Portal client problems

If the problem is reproducible and is reported as a Tivoli Enterprise Portal client problem, send the client log. The location of the log depends on the client type and operating system the client is running on. You may be asked to set a trace in the client and then collect the log. This is a very likely scenario in the case where a problem is reproducible.

Note: Additional information about logs for distributed components is found in the IBM Tivoli Monitoring: Troubleshooting Guide.

Tivoli Enterprise Portal

If a Tivoli Enterprise Portal client is being used, collect the logs shown in Table 1:

Table 1. Log locations for the Tivoli Enterprise Portal

<table>
<thead>
<tr>
<th>Component</th>
<th>Windows®</th>
<th>UNIX-based systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Enterprise Portal client</td>
<td>By default the log is located in the following sample path: C:\Documents and Settings\Administrator\Application Data\IBM\Java\Deployment\log\plugin150.trace</td>
<td>None.</td>
</tr>
<tr>
<td></td>
<td>where Administrator is the user account that is currently in use. The plugin150.trace file contains the RAS1 tracing for the Tivoli Enterprise Portal browser client and any Java™ exceptions. (The sample path indicates that Version 1.5.0 of the Java software is currently installed.) The Tivoli Enterprise Portal client logs contain environmental information, such as the version and build level of the Tivoli Enterprise Portal client. The log also contains the host and port of the Tivoli Enterprise Monitoring Server that the client is connecting to. Note: See the information that follows this table to learn how to locate the Tivoli Enterprise Portal client log on a Windows computer.</td>
<td></td>
</tr>
</tbody>
</table>
Table 1. Log locations for the Tivoli Enterprise Portal (continued)

<table>
<thead>
<tr>
<th>Component</th>
<th>Windows®</th>
<th>UNIX-based systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Enterprise Portal desktop client</td>
<td>install_dir\CNP\kcerror.log&lt;br&gt;install_dir\CNP\kcras1.log&lt;br&gt;When launched via Java Web Start: %USERPROFILE%\Application Data\IBM\Java\Deployment\log\javawsnnnnn.trace</td>
<td>install_dir/logs&lt;br&gt;hostname_PC_timestamp.log&lt;br&gt;where:&lt;br&gt;install_dir&lt;br&gt;Specifies the directory where Tivoli Enterprise Portal Server was installed.&lt;br&gt;hostname&lt;br&gt;Specifies the name of the system hosting the product.&lt;br&gt;PC&lt;br&gt;Specified the product code. cq for the Tivoli Enterprise Portal Server.&lt;br&gt;timestamp&lt;br&gt;A decimal representation of the time at which the process was started.&lt;br&gt;When launched via Java Web Start: ${user.home}/.java/deployment/log/javawsnnnnn.trace&lt;br&gt;where nnnnn is a unique, randomly generated numeric suffix to support generational logs (in other words, the last generated log is not overlayed by the most current execution of Tivoli Enterprise Portal using Java Web Start. This is in contrast to the Tivoli Enterprise Portal Browser client, which has a fixed name and is overlayed with each execution cycle.</td>
</tr>
</tbody>
</table>

You can locate the Tivoli Enterprise Portal client log on a Windows computer as follows:
1. Access a Windows command prompt.
2. Enter the following command to identify the location of the application data for the currently active user account: echo %APPDATA%
   If you log on with the UserXYZ user account, the path for this data directory might be C:\Documents and Settings\UserXYZ\Application Data
3. Use the cd (change directory) command to navigate to the client log in the following path: cd %APPDATA%\IBM\Java\Deployment\log<br>For example, if Version 1.5.0 of the Java software is installed, the log file is named plugin150.trace.

Tivoli Enterprise Portal Server

The Tivoli Enterprise Portal Server logs might also be useful, found in one of the locations in Table 2.

Table 2. Log locations for Tivoli Enterprise Portal Server

<table>
<thead>
<tr>
<th>Component</th>
<th>Windows</th>
<th>UNIX-based systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Enterprise Portal Server</td>
<td>install_dir\logs</td>
<td>install_dir/logs&lt;br&gt;hostname_PC_timestamp.log&lt;br&gt;where:&lt;br&gt;install_dir&lt;br&gt;Specifies the directory where Tivoli Enterprise Portal Server was installed.&lt;br&gt;hostname&lt;br&gt;Specifies the name of the system hosting the product.&lt;br&gt;PC&lt;br&gt;Specified the product code. cq for the Tivoli Enterprise Portal Server.&lt;br&gt;timestamp&lt;br&gt;A decimal representation of the time at which the process was started.</td>
</tr>
</tbody>
</table>

In addition to the client logs, collect the Tivoli Enterprise Monitoring Server and Tivoli Enterprise Portal Server logs. While this problem may be reported as a Tivoli Enterprise Portal client problem, the client might be having difficulties because of a server failure.
Tivoli Enterprise Monitoring Server

For the location of logs for a Tivoli Enterprise Monitoring Server on z/OS, see “Problems reported as Tivoli Enterprise Portal Server problems.”

Table 3 shows the location of logs for a Tivoli Enterprise Monitoring Server logs on distributed platforms:

Table 3. Log locations for Tivoli Enterprise Monitoring Server on distributed platforms

<table>
<thead>
<tr>
<th>Component</th>
<th>Windows</th>
<th>UNIX-based</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Enterprise Monitoring Server</td>
<td>install_dir/logs\hostname_PC_HEXtimestamp-nn.log</td>
<td>install_dir/logs\hostname_PC_timestamp.log</td>
</tr>
</tbody>
</table>
| | where:
| | install_dir
| | Specifies the directory where Tivoli Enterprise Monitoring Server was installed.
| | PC
| | Specifies the product code, ms for Tivoli Enterprise Monitoring Server
| | HEXtimestamp
| | A hexadecimal representation of the time at which the process was started.
| | nn
| | Represents the circular sequence in which logs are rotated. Ranges from 1-5, by default, though the first is always retained, since it includes configuration parameters.

Tivoli Enterprise Monitoring Server operations logs

Use the operations logs to determine the cause of IBM Tivoli Monitoring problems. IBM Tivoli Monitoring operations logging replaces MSG2 logging. The new optional logs replace the Tivoli Enterprise Monitoring Server log files \install_dir\cms\kdsmain.msg on Windows systems and install_dir/logs/hostname_ms_timestamp.log on UNIX-based systems.

To use the new logging facility for the Tivoli Enterprise Monitoring Server, modify the \install_dir/cms\KBBENV file on Windows systems or the install_dir/config/hostname_ms.TEMS ID.config file and install_dir/config/kbbenv.ini file on UNIX-based systems. Add the following line to the file:

`MSG_MODE=kms`

To disable the new logging facility and return to original logging, either remove this line in the file or change it to:

`MSG_MODE=MSG2`

For more information, refer to the IBM Tivoli Monitoring: Troubleshooting Guide.

Unreproducible problems reported as Tivoli Enterprise Portal client problems

If the problem is not reproducible and is reported as a Tivoli Enterprise Portal client problem, collect both the client and server logs. The logs may be the only indication of the real problem. Always try to get the logs at the time of the error. The Tivoli Enterprise Portal client has dynamic logging. Restarting the processes before collecting the logs results in a rewrite of the log. Any previous error messages might be lost.

Problems reported as Tivoli Enterprise Portal Server problems

If the problem is reported as a Tivoli Enterprise Portal Server problem, collect the server logs. The Tivoli Enterprise Portal Server is comprised of two processes, so there is a reliability, availability, and serviceability (RAS) (referred to in this document as a “RAS1 log”) for each process. If this is a reproducible problem, you might be asked to set unit traces for the Tivoli Enterprise Portal Server and then asked to gather the logs. The location for Tivoli Enterprise Portal Server logs is found in “Reproducible problems reported as Tivoli Enterprise Portal client problems” on page 2. Both logs contain the Tivoli RAS1 trace information. Also, collect the client log at the time of the error if it is available.
Problems affecting an OMEGAMON XE monitoring agent on z/OS

After you have ruled out problems with Tivoli Management Services components and the functionality for which you installed an OMEGAMON XE monitoring agent on z/OS is not available, then treat the problem as a monitoring agent problem. As noted earlier, the fact that problems appear in the Tivoli Enterprise Portal does not mean that this component is the source of the failure. Most monitoring agent problem determination guides include chapters for these types of problems:

- Installation and configuration
- Data collection
- Performance
- Usage

A data collection problem with a monitoring agent manifests itself as the display of no data or incorrect data in the Tivoli Enterprise Portal.

Log files and trace information are provided in a common way across all OMEGAMON XE monitoring agents on z/OS and the z/OS components of the Tivoli Management Services. Table 4 explains the location of log and trace files for an OMEGAMON XE monitoring agent on z/OS and Tivoli Management Services z/OS components.

Table 4. Locations of log and trace information for z/OS components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| An OMEGAMON XE monitoring agent on z/OS | RKLVLOG for the monitoring agent started task is the single most helpful piece of service information for an OMEGAMON XE monitoring agent on z/OS. The RKLVLOG (R = runtime, KLV = the prefix associated with IBM Tivoli Monitoring Services:Engine or TMS:Engine) is the sysout data set or spool file that contains log and trace messages. Instructions on how to save the contents of this log to a dataset are provided under [Capturing z/OS logs to send to IBM Software Support](#) on page 24. These additional zSeries® log files (if available) are also useful:
- The RKLVSNAP sysout data set or spool file contains formatted dump output.
- The RKPDLLOG sysout data set or spool file contains the information and error messages related to the handling of persistent data stores.
Refer to your started procedures for the locations of these serviceability log files. |
| Tivoli Enterprise Monitoring Server on z/OS | Because the Tivoli Enterprise Monitoring Server on z/OS runs under TMS:Engine just as an OMEGAMON XE monitoring agent on z/OS does, all logging under TMS:Engine is handled the same way, that is log and trace data are written to RKLVLOGs and RKPDLLOGs. |
### Table 4. Locations of log and trace information for z/OS components (continued)

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Tivoli Management Services:Engine (TMS:Engine)</td>
<td>TMS:Engine is a collection of basic operating system and communication service routines built specifically for z/OS. All address spaces used by OMEGAMON XE monitoring agent on z/OS load and use the services of TMS:Engine. Successful initialization of TMS:Engine is noted by this message: KLVIN408 IBM OMEGAMON PLATFORM ENGINE VERSION 400 READY For troubleshooting information about TMS:Engine problems, refer to the z/OS initialization section of IBM Tivoli Monitoring: Troubleshooting Guide. Explanations for messages generated by TMS:Engine can be found in IBM Tivoli Monitoring: z/OS Messages. TMS:Engine writes messages to the same RKLVLOG as the product it is running. If you search the RKLVLOG for a OMEGAMON XE monitoring agent on z/OS, product-specific messages start with the product code (for example, KS3 for Tivoli OMEGAMON XE for Storage on z/OS) but messages for the TMS:Engine start with that component prefix, KLV.</td>
</tr>
<tr>
<td>OMEGAMON subsystem</td>
<td>The OMEGAMON subsystem does not allocate an RKLVLOG. This component issues messages directly to the z/OS system console (or SYSLOG).</td>
</tr>
<tr>
<td>Persistent data store</td>
<td>The RKPDLOG syout data set or spool file contains the information and error messages related to the handling of persistent data stores. To dump this log, follow the procedures described for RKLVLOG in the sections that follow.</td>
</tr>
</tbody>
</table>

For locations of log files for all the components of Tivoli Management Services and information about enabling tracing for distributed components, refer to *IBM Tivoli Monitoring: Troubleshooting Guide*.

### Setting up a trace for an OMEGAMON XE monitoring agent on z/OS

The following two important debug variables can be set to debug problems with an OMEGAMON XE monitoring agent on z/OS:

- The `KDC_DEBUG` environment variable (see "Using the KDC_DEBUG environment variable")
- RAS1 tracing

### Using the KDC_DEBUG environment variable

Communications tracing during TCP/IP initialization is controlled by the `KDC_DEBUG` environment variable.

To obtain the level of tracing required to have these TCP/IP initialization messages echoed to RKLVLOG, the string `KDC_DEBUG=Y` must be added to member KDSENV of RKANPARU (or the appropriate initialization member named `pppENV`, where `pp` is the two-letter prefix associated with the monitoring agent, such as S3 for Tivoli OMEGAMON XE for Storage on z/OS).

Possible values for `KDC_DEBUG` are:

- **Y**  When this variable is set to Y, then the data flow between the monitoring agent and Tivoli Management Services components (such as Tivoli Enterprise Monitoring Server and Tivoli Enterprise Portal Server) during TCP/IP initialization is recorded, including data packages send and received. When `KDC_DEBUG=Y` is active in the environment during initialization of TCP/IP services for this address space and any of the following messages are present, then TCP/IP initialization was successful. If `KDC_DEBUG` is set to Y and none of these messages appear in RKLVLOG, then initialization of the TCP/IP service failed:
The data flow between the monitoring agent and Tivoli Management Services components during TCP/IP initialization is not recorded. This is the default and the recommended setting for normal operation.

For OMEGAMON monitoring agents on z/OS, this environment variable can be used during TCP/IP service initialization to diagnose connectivity problems with application layers such as telnet and FTP, and with the Tivoli Monitoring Server, Tivoli Enterprise Portal Server, and the Tivoli Enterprise monitoring agents.

The KDC_DEBUG environment variable controls all DCS communications tracing. Use the KDC_DEBUG parameter to track DCS errors or activity between the agent and the Tivoli Enterprise Monitoring Server. These usage notes apply:
1. You cannot dynamically alter KDC_DEBUG tracing.
2. Place the KDC_DEBUG environment variable statement immediately after the KDC_FAMILIES environment variable.

Refer to the environment variables appendix in IBM Tivoli Monitoring: Troubleshooting Guide for a list of environment variable associated with other components.

Setting up RAS1 tracing

RAS1 is the OMEGAMON component that provides trace and dump routines. RAS1 tracing provides runtime filtering of product messages and is the primary diagnostic tool for OMEGAMON. It is provided by the kbb library service and is set using either the IBM Tivoli Monitoring Service Console interface or some more direct method of manually modifying the KBB_RAS1 parameter. RAS1 messages are sent to stdout, so that one of the components in the configurator programs redirects that output to the files shown in Table 4 on page 5.

Not all OMEGAMON products or functions support RAS1 tracing, and not all OMEGAMON products or functions use the filters and classes in the same way. For example, two monitoring agents might use the filters and classes specified in RAS1 tracing differently and with different frequencies.

Again, be aware that RAS1 tracing log files can grow very large with the wrong amount of filtering. There is no log management function or feature, so be careful with the levels of tracing that you specify. You may want to run error tracing for all components and then any additional levels depending on diagnostic needs.

Syntax for RAS1 traces

This syntax is used to specify an RAS1 trace in the KppENV file. After you add this command to the KppENV file, you must stop and restart the address space for it to take effect. After that, it remains in effect for the life of the address space. To end this RAS1 trace, you must edit the KppENV file again and reset the trace level and stop and start the address space.

The basic syntax of the RAS1 trace commands for error tracing is as follows:

```
KBB_RAS1=global_class
(COMP:component_type)
(ENTRY:entry_point)
```

```
(UNIT:unit_name, class)
```

Where:

*global_class*

Indicates the level of tracing that you want to see. This is a global setting that applies to all RAS1 filters within the process. If you set this global class by itself, it is global in scope and the trace
cannot filter on any of the other keywords. Separate combined classes with a space. The following are possible values. Valid abbreviations are in parentheses.

- **ERROR (ER):** returns severe error messages only (this is the default for most applications).
- **STATE (ST):** records the condition or current setting of flags and variables within the process. If state tracing is enabled, you can see the current state of particular variables or flags as the process is running.
- **FLOW (FL):** causes a message to be generated at an entry or exit point of a function.
- **DETAIL (DE):** produces a detailed, verbose level of tracing.
- **INPUT (IN):** records data that is created in the execution of a particular API, function, or process.
- **ALL:** causes all available messages to be recorded, a combination of all the other forms of tracing.

**COMP** is the keyword that indicates this trace will include a component type. The COMP keyword is used to trace groups of routines related by function (or component). Do not use this parameter unless requested to do so by IBM Software Support.

**COMPONENT_TYPE**

Is the identifier for a component type. If an IBM Software Support representative instructs you to perform a component trace, you are provided with a code for that component. Do not use this parameter unless requested to do so by IBM Software Support.

**ENTRY**

Is the keyword used to narrow a filtering routine to a specific ENTRY POINT. Since multiple entry points for a single routine are not common, this keyword is not commonly used and should only be used at the explicit request of an IBM Software Support representative.

**ENTRY_POINT**

Is a variable representing the name of the entry point. If you are asked to specify a value for the ENTRY keyword, an IBM Software Support representative will tell you what value to specify for entry_point.

**UNIT**

Is the keyword that indicates this trace will include collecting information using the compilation unit, fully qualified or partially qualified. A match is performed between the compilation unit dispatched and the compilation unit specified on the RAS1 statement. A match results in a trace entry.

**UNIT_NAME**

Is a variable representing the name of the compilation unit. This name can be anything that is related to the object file name or unit compilation name. In most instances, this name defines the component that is being traced. This value might be one of the components in Table 5 on page 14, but in practice will most likely be the three-character component identifier for the monitoring agent (for example, ks3 for Tivoli OMEGAMON XE for Storage on z/OS).

**CLASS**

One of the same values specified for Global Class but, because of its position inside the parentheses, the class is narrowed in scope to apply only to the unit_name specified. The following are possible values. Valid abbreviations are in parentheses.

- **ERROR (ER):** returns severe error messages only (this is the default for most applications).
- **STATE (ST):** records the condition or current setting of flags and variables within the process. If state tracing is enabled, you can see the current state of particular variables or flags as the process is running.
- **FLOW (FL):** causes a message to be generated at an entry or exit point of a function.
- **DETAIL (DE):** produces a detailed, verbose level of tracing.
- **INPUT (IN):** records data that is created in the execution of a particular API, function, or process.
- **ALL:** causes all available messages to be recorded, a combination of all the other forms of tracing.
Notes:
1. The default setting for all components is KBB_RAS1=ERROR, meaning that only error tracing is enabled.
2. You can specify any combination of UNIT, COMP, and ENTRY keywords. None of these keyword is required. However, the RAS1 value you set with the global class applies to all components.

Some examples of RAS1 trace syntax follow.

Example 1 – Tracing requests to and answers from the Tivoli Enterprise Monitoring Server: To show requests to and answers from the Tivoli Enterprise Monitoring Server, specify this trace:

```
KBB_RAS1=ERROR (UNIT:KRA ST ERR)
```

The unit values ST and ERR indicate that you are collecting state and error information for the agent framework component (KRA).

This type of agent trace is used only if you are trying to debug a specific problem, because it greatly increases the number of messages generated by agent. With this type of trace, messages include a detailed dump of all rows of agent data that have passed filtering, which includes attribute names and values, request names, table names, and collection interval. Remember to disable this resource-intensive form of tracing immediately after you have completed your trace.

Example 2 – Tracing proxy controller and distributed agent issues: From the Tivoli Enterprise Monitoring Server, to trace proxy controller and Tivoli Enterprise Monitoring Server distributed agent issues, issue this command:

```
KBB_RAS1=ERROR (COMP:KUX ST ER) (UNIT:KRA ALL) (UNIT:KDS FL)
```

In this example:
- KUX is a component identifier provided to you by a representative of IBM Software Support so that you can collect state and error information about this subcomponent.
- KRA is the unit name for the agent framework component. All trace information about this component is being captured.
- KDS is the Tivoli Enterprise Monitoring Server component and the flow (FL) of entry or exit points through this component are documented with records written to RKLVLOG.

Messages that display the data collected by the TakeSample method can be viewed by adding the RAS1 trace (UNIT:KRA OUTPUT) or (UNIT:KRA ALL) to the agent trace statement.

Setting RAS1 trace levels for an OMEGAMON XE monitoring agent on z/OS

For most OMEGAMON monitoring agents on z/OS, the trace level KBB_RAS1=ERROR is set by default. You can change this trace level a number of ways. Three of those ways are explained in the sections that follow.

Setting trace levels by editing RKANPARU: One of the simplest ways to set trace levels for an OMEGAMON XE monitoring agent on z/OS is to edit the RKANPARU(KppENV) member, where pp is the product code.

The text in bold is an example of what an IBM service representative might ask you to add to this member.
Setting RAS1 trace levels dynamically from the IBM Tivoli Monitoring Service Console: You can use the IBM Tivoli Monitoring Service Console to set trace levels for monitoring agents on z/OS, as well as for a Tivoli Enterprise Monitoring Server on z/OS or for distributed components. Using the service console, you can read logs and turn on traces for remote product diagnostics and configuration. If you use the Service Console, you can change trace levels without recycling the monitoring server.

The service console is uniquely identified by its service point name. All service consoles for a host are linked and presented on the IBM Tivoli Monitoring Service Index for that host. You can perform operations on a specific component process by selecting the service console associated with the service point name of the component.

Note: Enabling tracing may cause large amounts of trace data and degrade performance, so only turn on tracing for the minimal amount of time as required to do problem determination.

Starting the service console: Use the following procedure to start the service console:

1. Start Internet Explorer (version 5 or higher) or Mozilla Firefox.
2. In the Address field, type the URL for the Tivoli Enterprise Portal browser client:

   http://hostname:1920

   where hostname specifies the system where the process (monitoring server, portal server, Warehouse Proxy Agent, Tivoli Data Warehouse, or Tivoli Enterprise Monitoring Agent) is installed. If the service console is not displayed, a system administrator might have blocked access to it. Refer to the IBM Tivoli Monitoring Troubleshooting Guide for information about blocking access to the service console.
3. On the IBM Tivoli Monitoring Service Console window, select the desired component process (service point name).
4. Click OK.

You need a valid user ID and password to proceed.

The IBM Tivoli Monitoring Service Console performs user authentication using the native OS security facility. If you use the IBM Tivoli Monitoring Service Console on z/OS systems, your user ID and password are checked by the z/OS security facility (RACF/SAF). If you use the IBM Tivoli Monitoring Service Console on Windows systems, then you must pass the Windows workstation user ID and password prompt. This is the rule except for instances of a NULL or blank password. The IBM Tivoli Monitoring Service Console never accepts a NULL or BLANK password.

A password is always required to access the service console. Blank passwords, even if correct, cannot access the service console. Even if a user ID is allowed to login to the operating system without a password, access to the service console is denied. Create a password for the user ID that is being used to login to the service console.

You can issue service console commands in the command input area. For a list of available commands, type a question mark (?) and click Submit.
Service Console commands for troubleshooting: ras1 and bss1: The Service Console supports the following commands for troubleshooting: ras1 and bss1.

ras1 The ras1 command is useful for troubleshooting and is paired with one of the following subcommands:

- log Display RAS1 log capture buffer.
- list List the RAS1 filters in effect.
- ctbld Display the resident CTBLD data.
- set serviceunit Control traces and filters for serviceunit units Display the registered compilation units.

The ras1 command is especially useful for dynamically enabling and disabling RAS1 traces. The documentation requests from IBM Software Support may conflict with your availability requirements. The ras1 command can be used to alter KBB_RAS1 tracing parameters dynamically without the need to recycle the product. For example, to enable the kpx trace, you can issue the following service console command:

ras1 set (UNIT:kpx ALL)

After you capture this trace, you can disable it with the following service console command:

ras1 set (UNIT:kpx ANY)

To see what tracing is already in effect, submit the following command:

ras1 list

Notes:
1. The information inside the parentheses may be case-sensitive. Use the values provided by IBM Software Support.
2. The settings set by Service Console commands remain in effect for the current activation of the product. After the product is recycled, the original trace settings are restored.

bss1 The bss1 command manages BSS1 (Basic System Services) and is paired with one of the following subcommands:

- listenv Display the resident TMS:Engine variables.
- getenv envvar Display environment variable, where envvar is any variable that can be returned from listenv.
- setenv envvar Assign an environment variable where envvar is any variable that can be returned from listenv.
- info Display BSS1_Info() data
- config debugenv Modifies the settings of the TMS:Engine debug environment variables: RES1_DEBUG, KDH_DEBUG, KDC_DEBUG, and KDE_DEBUG. The possible values, from most to least tracing messages, are: M (Max), D (Detail), Y (Yes) and N (Nominal). For example, the following config command alters the setting of KDC_DEBUG:

BSS1 CONFIG KDC_DEBUG=Y
Setting trace levels dynamically from the IBM Tivoli Monitoring Service Console command line:
Dynamic RAS1 agent tracing allows you to send commands to the monitoring agent to alter its RAS1 tracing dynamically while a process is running. This type of tracing tracks particular types of problems as they occur.

You cannot issue this command if RAS1 agent tracing is not enabled. Enable the RAS1 agent tracing first before attempting to dynamically alter RAS1 agent tracing with these commands documented here.

You can send these commands using the Tivoli Enterprise Portal Take Action facility.

Dynamic RAS1 agent tracing uses syntax similar to RAS1 agent tracing, but with several differences to keep in mind. The syntax is:

```
[Elf—action—FILTER ID=id—UNIT=ras1_unit]—[CLASS=(ras1_class)]
```

Where:

**action** Can be one of the following:
- **ADD** Enables a specific filter,
- **REMOVE** Disables a specific filter.
- **ENABLE** Enables a global class.
- **DISABLE** Disables a global class.

**FILTER ID**
Is the keyword that identifies the filter. Signifies that the trace program should add, remove, enable, or disable a filter or class.

**id** Is a unique key for each filter specified that commands act upon. The ID is usually a three-letter component identifier for the component to which the add, remove, enable, or disable action is being applied.

**UNIT**
Is the keyword that indicates this trace will include collecting information for a certain component. Units IDs are specific to a product or component.

Redirecting input of the RAS1 tracing parameters member
Nearly all diagnostic information for the Tivoli Management Services z/OS components is delivered using the RAS1 (trace) component. This component is configured in member KBBENV of RKANPARU using the KBB_RAS1 environment variable.

Often, Tivoli users redirect the initialization member using the TMS:Engine INITLIST processing. INITLIST processing is always echoed to the RKLVLOG with the KLVIN411 message.

The following shows an example of a typical KBBENV override to a different member, KDSENV:

```
KLVIN410 INITLIST MEMBER KDSINIT BEING PROCESSED
KLVIN411 KLVINNAM=KDSINNAM
KLVIN411 KLVINTB=KDSINTB
KLVIN411 KLVINVLG=KDSINVAL
KLVIN411 KLVINNAF=KDSINNAF
KLVIN411 KLVINP0=KDSINVPO
KLVIN411 KLVINSTG=KDSINSTG
KLVIN411 KLVINVAM=KDSINVAM
KLVIN411 KBBENV=KDSENV
```

In this instance, configuration of KBB_RAS1 is displayed in member KDSENV of RKANPARU.
Tips regarding the collection of diagnostic data

This section describes problems that might arise when you collect diagnostic data, such as debugging logs.

KDFDEVIN DEBUG
Request: You might experience a problem in Tivoli OMEGAMON XE for Storage on z/OS and IBM Software Support requests that you turn on debugging.

Response: Add the DEBUG(ON) parameter to the RKANPAR member KDFDEVIN. The parameter enables debugging messages in the Tivoli OMEGAMON XE for Storage on z/OS product only. These messages come from a wide variety of modules and components within the Tivoli OMEGAMON XE for Storage on z/OS product and substantially increase output to the RKLVLOG. For this reason, enable debugging only when you are working with IBM Software Support. And run debugging only until you have collected sufficient data, as defined by your IBM Software Support contact. To turn off debugging, remove the DEBUG(ON) parameter from the KDFDEVIN member.

!Trace in VTAMDATA
Request: You might experience a problem with the OMEGAMON II interface to Tivoli OMEGAMON XE for Storage on z/OS, and IBM Software Support requests that you turn on tracing in the OMEGAMON II address space.

Response: Tracing in the OMEGAMON II interface is performed on a per-session basis. To enable this type of tracing, you must be able to pass VTAM USER parameters in your logon command string. Some types of session managers give you this capability. If you are not using a session manager, the VTAM USS screen that your support staff provides can give you this capability.

The parameter to pass in your logon command string is !Trace. The generated trace messages substantially increase output to the RKLVLOG. For this reason, enable tracing only when you are working with IBM Software Support. And run tracing only until you have collected sufficient data, as defined by your IBM Software Support contact.

STGDEBUG(X)
Request: You might notice signs of a storage overlay or storage creep and contact IBM Software Support. Your IBM contact person might request that you set storage debugging to X, which is the setting that generates the highest level of detail. (The other possible settings are N, no debugging, and Y, minimal debugging.)

Response: IBM Software Support might instruct you to add this parameter to the RKANPAR member KDFSYSIN as part of the debugging process. Depending on the state that IBM Software Support asks you to set, you may also need to modify the MINIMUM parameter in the same member. STGDEBUG(Y) adds a small amount (32 bytes) to each block of storage allocated from our internal storage manager. Normally, this does not cause problems because most systems have sufficient extra space in their engine storage allocation to allow for this. STGDEBUG(X) however, adds a total of 96 bytes to each allocated block of storage, which can quickly exceed your storage allocation. In most cases, double the value specified in the MINIMUM parameter whenever you specify STGDEBUG(X). Also, ensure that you run this type of debugging with the region set to 0M (REGION=0M).

Preferred dump options
Request: You might experience a problem with Tivoli OMEGAMON XE for Storage on z/OS and IBM Software Support requests that you set a SLIP to generate a console dump of the OMEGAMON address space. However, you might be uncertain as to what SDATA options to used.
Response: Use the following SDATA parameters for all memory or console dumps taken for the Tivoli OMEGAMON XE for Storage on z/OS product, unless IBM Software Support instructs you otherwise.
SDATA=(ALLNUC,CSA,LPA,PSA,RGN,SQA,SUM,TRT)

Understanding and using RAS1 logs

When you open a z/OS log such as RKLVLOG, you find a mix of status lines and numbered product messages.

Most messages with IDs are documented in the problem determination guides for each monitoring agent. You can also determine the meaning of a message by entering the message number into an Internet search engine such a Google. The information that follows help you interpret the messages and status lines in a z/OS log.

Determining which product or component generated a message

All components of Tivoli Management Service write messages to various log files for the components. All OMEGAMON XE monitoring agents also generate messages that are captured in message and trace files.

It is not always apparent what component has generated a message. To help you understand the messages, Table 5 shows the prefixes for the components of all Tivoli Management Services components and OMEGAMON XE monitoring agents that might be displayed in a log and trace file. The message begins with one of the three-letter prefixes documented in Table 5.

Table 5. Prefixes that might be displayed in message and trace files

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMX</td>
<td>Distributed Tivoli Enterprise Monitoring Server</td>
</tr>
<tr>
<td>AOP</td>
<td>AF/OPERATOR, OMEGACENTER Gateway for MVS™</td>
</tr>
<tr>
<td>ATF</td>
<td>OMEGAMON II for IMS™</td>
</tr>
<tr>
<td>BG</td>
<td>OMEGAMON II for CICS®</td>
</tr>
<tr>
<td>BPO</td>
<td>IBM Tivoli OMEGAMON XE for DB2® Performance Expert</td>
</tr>
<tr>
<td>CI</td>
<td>OMEGAMON Base</td>
</tr>
<tr>
<td>CNDL</td>
<td>OMEGAMON Base</td>
</tr>
<tr>
<td>CSAA</td>
<td>Classic OMEGAMON</td>
</tr>
<tr>
<td>CV</td>
<td>OMEGAMON for VM</td>
</tr>
<tr>
<td>DGO</td>
<td>IBM Tivoli OMEGAMON XE for DB2 Performance Expert</td>
</tr>
<tr>
<td>DSM</td>
<td>OMEGAMON II for IMS</td>
</tr>
<tr>
<td>DX</td>
<td>DEXAN</td>
</tr>
<tr>
<td>EA</td>
<td>OMEGAMON II for MVS</td>
</tr>
<tr>
<td>EB</td>
<td>EPILOG</td>
</tr>
<tr>
<td>EC</td>
<td>EPILOG</td>
</tr>
<tr>
<td>ECO</td>
<td>Distributed directory server</td>
</tr>
<tr>
<td>ED</td>
<td>EPILOG</td>
</tr>
<tr>
<td>EI</td>
<td>EPILOG</td>
</tr>
<tr>
<td>EO</td>
<td>EPILOG</td>
</tr>
<tr>
<td>EP</td>
<td>EPILOG</td>
</tr>
<tr>
<td>ETE</td>
<td>End to End</td>
</tr>
<tr>
<td>ETX</td>
<td>OMEGAMON II for IMS</td>
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</tbody>
</table>

IBM Tivoli OMEGAMON XE for Storage on z/OS: Troubleshooting Guide
<table>
<thead>
<tr>
<th>Prefix</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>OMEGAMON for VM</td>
</tr>
<tr>
<td>EV</td>
<td>OMEGAMON for VM</td>
</tr>
<tr>
<td>EVS</td>
<td>OMEGAMON II for IMS</td>
</tr>
<tr>
<td>EX</td>
<td>OMEGAMON II for Mainframe Networks</td>
</tr>
<tr>
<td>FPE</td>
<td>IBM Tivoli OMEGAMON XE for DB2 Performance Expert</td>
</tr>
<tr>
<td>H2C</td>
<td>OMEGAMON II for DB2</td>
</tr>
<tr>
<td>IA</td>
<td>Classic OMEGAMON</td>
</tr>
<tr>
<td>ICF</td>
<td>OMEGAMON II for IMS</td>
</tr>
<tr>
<td>IN</td>
<td>Classic OMEGAMON</td>
</tr>
<tr>
<td>K3Z</td>
<td>IBM Tivoli Monitoring: Active Directory Agent</td>
</tr>
<tr>
<td>KA2</td>
<td>IBM Tivoli Alert Adapter for AF/REMOTE</td>
</tr>
<tr>
<td>KA4</td>
<td>IBM Tivoli Monitoring: i5/OS® Agent</td>
</tr>
<tr>
<td>KAB</td>
<td>OMEGACENTER Gateway for MVS</td>
</tr>
<tr>
<td>KAG</td>
<td>Configuration Tool, Tivoli Enterprise Monitoring Server</td>
</tr>
<tr>
<td>KAM</td>
<td>IBM Tivoli Alert Adapter for OMEGACenter Gateway for MVS</td>
</tr>
<tr>
<td>KAO</td>
<td>AF/OPERATOR, OMEGACENTER Gateway for MVS</td>
</tr>
<tr>
<td>KAT</td>
<td>AF/OPERATOR, OMEGACENTER Gateway for MVS, OMEGACENTER Status Manager for MVS</td>
</tr>
<tr>
<td>KAU</td>
<td>AF/Integrated Resource Manager, OMEGACENTER Gateway for MVS</td>
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<tr>
<td>KBB</td>
<td>TMS:Engine or Tivoli Management Service: Engine (TMS:Engine), Tivoli Enterprise Monitoring Server</td>
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<td>KBF</td>
<td>CASP Native Connector</td>
</tr>
<tr>
<td>KBL</td>
<td>OMEGAMON XE for CASP</td>
</tr>
<tr>
<td>KBR</td>
<td>OMEGAMON XE for CASP</td>
</tr>
<tr>
<td>KBX</td>
<td>OMEGAMON XE for CASP, Configuration Tool</td>
</tr>
<tr>
<td>KC2</td>
<td>OMEGAMON II for CICS, Configuration Tool</td>
</tr>
<tr>
<td>KC3</td>
<td>Configuration Tool, IBM Tivoli OMEGAMON XE for CICS on z/OS</td>
</tr>
<tr>
<td>KC5</td>
<td>IBM Tivoli OMEGAMON XE for CICS on z/OS</td>
</tr>
<tr>
<td>KCA</td>
<td>OMNIMON Base</td>
</tr>
<tr>
<td>KCC</td>
<td>OMNIMON Base</td>
</tr>
<tr>
<td>KCF</td>
<td>Candle Command Center for MQSeries® Configuration, IBM Tivoli OMEGAMON XE for WebSphere® MQ, Generic Configuration, Configuration Tool, IBM Tivoli Configuration Manager</td>
</tr>
<tr>
<td>KCG</td>
<td>OMEGAMON XE for IBM Cryptographic Coprocessors</td>
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<td>KCI</td>
<td>IBM Tivoli OMEGAMON XE for CICS on z/OS, Configuration Tool</td>
</tr>
<tr>
<td>KCJ</td>
<td>Tivoli Enterprise Portal desktop client</td>
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<tr>
<td>KCN</td>
<td>Configuration Tool, OMNIMON Base, Candle Subsystem</td>
</tr>
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<td>KCO</td>
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<td>KCQ</td>
<td>Tivoli Enterprise Portal Server</td>
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<td>KCW</td>
<td>Tivoli Enterprise Portal browser client</td>
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<td>Prefix</td>
<td>Component</td>
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<td>KD2</td>
<td>OMEGAMON II for DB2, Configuration Tool, IBM Tivoli OMEGAMON XE for DB2 Performance Expert</td>
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<td>Configuration Tool, OMEGAMON XE for DB2, OMEGAMON XE for DB2 on z/OS</td>
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<td>KD4</td>
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<td>KD5</td>
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<td>KDC</td>
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<td>KDE</td>
<td>TMS:Engine or Tivoli Management Service: Engine (TMS:Engine)</td>
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<td>KDF</td>
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<td>KDP</td>
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<td>KDY</td>
<td>Universal Agent</td>
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<td>KDR</td>
<td>Configuration Tool, Candle Dump Analysis Tool for OS/390®</td>
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<td>KEB</td>
<td>OMNIMON Base</td>
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<td>OMEGAMON II for MVS</td>
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<td>KET</td>
<td>Configuration Tool, End to End, OMEGAMON II for Mainframe Networks</td>
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<td>IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft® Exchange Server Agent</td>
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<td>KFW</td>
<td>Tivoli Enterprise Monitoring Server and Tivoli Enterprise Portal Server</td>
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<td>Tivoli Enterprise Monitoring Server</td>
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<td>Configuration Tool, OMEGAMON II for IMS/DBCTL</td>
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<tr>
<td>KIC</td>
<td>IBM Tivoli OMEGAMON XE for WebSphere InterChange Server</td>
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Table 5. Prefixes that might be displayed in message and trace files (continued)

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<tr>
<th>Prefix</th>
<th>Component</th>
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<tbody>
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<td>IBM Tivoli OMEGAMON XE for WebSphere InterChange Server</td>
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<tr>
<td>KIH</td>
<td>Tivoli Enterprise Monitoring Server</td>
</tr>
<tr>
<td>KIN</td>
<td>Configuration Tool</td>
</tr>
<tr>
<td>KIP</td>
<td>IBM Tivoli OMEGAMON XE for IMS on z/OS, Configuration Tool, OMEGAMON XE for IMSplex, OMEGAMON XE for IMS, IBM Tivoli OMEGAMON XE for IMS on z/OS</td>
</tr>
<tr>
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<td>OMNIMON Base</td>
</tr>
<tr>
<td>KIT</td>
<td>IBM Tivoli Enterprise Console®</td>
</tr>
<tr>
<td>KJF</td>
<td>Distributed link wizard</td>
</tr>
<tr>
<td>KKC</td>
<td>Configuration Tool</td>
</tr>
<tr>
<td>KKJ</td>
<td>Configuration Tool</td>
</tr>
<tr>
<td>KLB</td>
<td>TMS:Engine or Tivoli Management Service: Engine (TMS:Engine)</td>
</tr>
<tr>
<td>KLC</td>
<td>Tivoli Enterprise Monitoring Server, CL/CONFERENCE</td>
</tr>
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<td>KLD</td>
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<td>TMS:Engine or Tivoli Management Service: Engine (TMS:Engine)</td>
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<td>TMS:Engine or Tivoli Management Service: Engine (TMS:Engine)</td>
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<td>Tivoli Enterprise Monitoring Server, CL/SUPERSESSION</td>
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<td>TMS:Engine or Tivoli Management Service: Engine (TMS:Engine)</td>
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<td>KLZ</td>
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<tr>
<td>KM2</td>
<td>OMEGAMON II for MVS, Configuration Tool</td>
</tr>
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<td>KRRR</td>
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Table 5. Prefixes that might be displayed in message and trace files (continued)

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**Format of messages in a RAS1 log**

A RAS1 log for a monitoring agent on z/OS includes the following information:

- Environmental information
  - Operating system and CPU data. This information is prefaced with the following string:
    
    PPPxxmmmm

    Where:
    - **PPP** is the component prefix (See Table 5 on page 14 for a list of component prefixes).
    - **xx** is the component code (for example, NS Node Status).
    - **mmm** is the module name (for example mdg/mgr for Model/Manager).
  - Initial command line settings
- Component summary, including the following:
  - The name of the module
  - Information about where the library was loaded from
- The date and time the module was compiled
- The version (if this detail was specified)

- Formatted output, including entry and exit points and text strings. Entry and exit points show flow into and out of a given function. The exit shows the return code, if applicable. The text depends on the kind of trace specified. Here is an example:

  ```
  (00D41 F9C-199%):KV4MAIN.CPP,953,"MainWnd::MainWnd") Entry
  (00D41 FD3-199%):KV4MAIN.CPP,959,"MainWnd::MainWnd") Exit
  Time,Thread,\{stack avail\},pgm_name,Line#,function,text
  ```

  As noted earlier, not all functions are RAS1 enabled, and trace level may exclude some paths. Be aware of issues involved with the granularity of this statement.

**Using IBM Support Assistant**

The IBM Support Assistant is a free, stand-alone application that you can install on any workstation. The OMEGAMON XE monitoring agents on z/OS have provided product-specific plug-in modules to the Support Assistant. For more information about downloading and using this tool, refer to "Using IBM Support Assistant" on page 225.

**Using the Log Analyzer**

The Log Analyzer is available to help view, analyze and correlate log files. With the Log Analyzer, you can evaluate multiple event and error logs with time synchronization. This tool makes it easier and faster to debug and resolve problems within multi-tier systems by consuming data in the Common Base Event format and providing specialized visualization and analysis of the data.

With the Log Analyzer, you can gather system and performance data from local and remote systems and the various IBM Tivoli Management Services components and create resource sets, groups of definitions that contain the path locations of the logs that you need to examine and the levels of information that they contain. You can keep these customized definitions and reuse them. The definitions provide the same set of instructions about where to find a log, and what kind of information to gather from the log, saving time during subsequent log imports.

The Log Analyzer for your monitoring agent includes a symptom catalog, a knowledge database that enables the Log Analyzer tool to recognize known problems. IBM provides symptom catalogs of known problems many products, including some OMEGAMON XE monitoring agents on z/OS. It also provides a way for you to capture and define your own symptom information.

In addition to the Log Analyzer, specialized OMEGAMON adapters have been provided to aid in problem determination for some of the more common problems that you might experience when using Tivoli Management Services (Tivoli Enterprise Portal, Tivoli Enterprise Portal Server, and Tivoli Enterprise Monitoring Server). The OMEGAMON adapters uses the Generic Log Adapter (GLA) to process application log files and transform their contents into a common format for logging, management, and problem determination and to facilitate communication between tools in a consistent way.

The OMEGAMON adapters process application log files and transform their contents into a common format for logging, management, and problem determination. You can use the tool to view and correlate logs from the Tivoli Enterprise Portal Server or Tivoli Enterprise Monitoring Server on a distributed system, or the RKLVLOG from a monitoring agent or monitoring server on z/OS system.

The Log Analyzer tool is launched from the Tivoli Enterprise Portal Event Tools view, which is displayed as part of the Event Details workspace or by way of a link off the situation event console view in the Enterprise Status workspace.

The Log Analyzer tool can be used to view logs from Tivoli Enterprise Portal Server, Tivoli Enterprise Monitoring Server, or the RKLVLOG from an OMEGAMON XE monitoring agent on z/OS.

**Starting the Log Analyzer**

The Log Analyzer is a part of IBM Support Assistant, a free, standalone application that you can install on any workstation. Follow these steps to download and start the Log Analyzer.

1. **If you do not have** the IBM Support Assistant installed, go to the ISA Web site at [www.ibm.com/software/support/isa](http://www.ibm.com/software/support/isa) to download the software. Instructions for downloading and installing the support assistant are on the support assistant Web site.

2. **Using the support assistant built-in Update component**, download and install the ISA product add-on for your OMEGAMON monitoring agent. This download also includes the associated Log Analyzer tool symptom catalog.
   a. From the Update menu, select **Find New -> Product Add-ons** and select the add-on for your OMEGAMON monitoring agent from the list of Tivoli product add-ons. Click **Next** to continue.
   b. Select the Log Analyzer tool add-on from the list of JVM-based tools and click **Next**.
   c. Review and indicate that you accept the associated license agreements and click **Next**.
   d. Review the list of add-ons to be downloaded and installed and select **Finish**.

3. After installation of the OMEGAMON monitoring agent product add-on and the Log Analyzer is complete, start the IBM Support Assistant. Then do the following:
   a. Select **Analyze Problem**.
   b. Select the **Tools** tab.
   c. Select the **Log Analyzer** from the list of tools in the Tools Catalog.
   d. Select **Launch**. The Log Analyzer should start. If it does not, stop the support assistant and try the procedure again.

The information required to analyze logs for your monitoring agent was downloaded with the monitoring agent add-on. You are now ready to import and analyze logs.

**Notes:**

1. The jar file that runs with this tool must be found in the system where the Tivoli Enterprise Portal client that is invoking it exists. It cannot be run remotely.

2. Once ISA is installed, launch the Log Analyzer tool from the Tivoli Enterprise Portal Event Tools view. You can then use the tool to view logs from the Tivoli Enterprise Portal Server or Tivoli Enterprise Monitoring Server on a distributed system, or the RKLVLOG from a monitoring agent or monitoring server on z/OS system.

**Importing OMEGAMON XE monitoring agent on z/OS log files to the Log Analyzer**

To import an OMEGAMON XE monitoring agent log file (such as the RKLVLOG) into the Log Analyzer, complete the following steps:

1. Copy the relevant log files from the IBM Tivoli Monitoring component servers to the system where you installed the IBM Support Assistant workbench. Put the log files for each server in a unique directory (for example, `c:\ITM\logs\serverXX\`).

2. Import the OMEGAMON log files. The Log Analyzer organizes related log files into log sets. Log sets can be used to import and analyze a set of related log files. This facility is used to organize and import your OMEGAMON log files. Log set definitions provide information to the Log Analyzer specifying where log and trace data reside and what kind of data to gather from local and remote systems. The Log Analyzer allows you to import predefined log sets that contain the necessary path information required for retrieving log files on demand.

3. Use one of the procedures described in the following sections, depending on whether you are creating a new log set or editing an existing log set.
Note: You can create and reuse as many log sets as you need. For example, when importing log files from multiple servers, you need more than one log set.

Creating the initial OMEGAMON log set: To create a new initial OMEGAMON log set, do the following:
1. From the Log Analyzer main panel, click File -> Import Log File.
2. Create a new log set.
3. Type the name for the log set. For example, you could type the following text: OMEGAMON monitoring agents on z/OS Log files for server xxxx.
4. Click Add.
5. Complete the Add dialog by doing the following:
   a. To limit the list of log files to the OMEGAMON log files, in the Name Filter window, type Discovery.
   b. Select the type of log file you are adding to the log set.
   c. Enter the name of the log file on your local system. Ensure the type of log file matches the log file you specified.
   d. Enter the correct version of the OMEGAMON product that corresponds to the log file. Refer to the Log Analyzer online help for additional options.
   e. To add the log file to the log set, click OK.
6. For every log file you want to include in the log set, repeat Step 5.

The first time you create the log set, include every log file that you want to include in the log set.

Reusing an existing OMEGAMON log set
To reuse an existing log set, do the following:
1. Select File -> Import Log File.
2. Select an existing Log Set Definition from the drop-down list of defined log sets.
3. If necessary, change the contents of the log set definition. You can add, edit, or remove from the list of log files in the log set.
4. To indicate the file should be imported to the log set, select the checkbox next to the log file.
5. To import the log files, click Finish.

Correlating and analyzing OMEGAMON log files with the Log Analyzer
The correlation function lets you bring together logs from multiple servers organized by timestamp for environment-wide analysis. Your OMEGAMON log files can be combined in a single view, ordered by time stamp, to correlate the operation of the IBM Tivoli Management Services components.

When you are trying to correlate log files from multiple servers, the time clocks on those servers can be out-of-sync. This synchronization problem could be something simple, such as different time zones, or more subtle, such as a clock being a few milliseconds off from another server’s clock. The Log Analyzer imbeds a function to synchronize the time between multiple log files by allowing you to adjust the time stamps in a log file. For more information, refer to the topic titled “Synchronizing time of log records for distributed applications” in the Log Analyzer online help.

There are two ways to correlate log files: simple correlation and advanced correlation.

Performing simple correlation: To correlate all imported log files, do the following:
1. In the Log Analyzer navigation tree view, right-click on Logs.
2. Click View All Logs.

Performing advanced correlation: To correlate a set of log files by creating a custom correlation, complete the following steps:
1. In the Log Analyzer navigation tree view, right-click on Correlations.
2. Select **New -> Log Correlation**.
3. In the resulting window, type a descriptive name for the correlation you are creating.
4. Select the log files that you want to include for the correlation from the list of available logs.
5. Click **Finish**.
6. Refresh the navigation tree view.
7. In the navigation tree view, right-click the correlation name you typed and select Open With -> Log View.

**Organizing log data:** After you create a view of the logs, you can organize the log data to isolate problems. The following list identifies some of the ways that you can organize the data:

- **Sort log records**: For example, you can sort by time, component, and server name.
- **Highlight log records**: For example, you can highlight all error events in red or show all events from a specific component in blue. Highlighting is similar to filtering, but instead of eliminating data from a view, you can highlight the relevant information within the full list of events.
- **Filter log records**: You can narrow the scope of a problem and the data shown based on filter criteria. Examples of filter criteria include time stamps, severity, component, and server.
- **Find log records**: You can search for specific information in a log file. For example, you can search to see events related to interaction with a specific server or user.

For more information about how to organize the data, search the Log Analyzer online help for the “Analyzing log files” topic.

---

**Capturing z/OS logs to send to IBM Software Support**

To save a log to a file rather than viewing it online, you need to know how to do the following tasks:

- [“Saving the contents of a z/OS log such as RKLVLOG”](#)
- [“Ending one RKLVLOG and starting another” on page 25](#)
- [“Submitting problems to IBM Software Support” on page 28](#)

**Saving the contents of a z/OS log such as RKLVLOG**

To save the information in your z/OS logs (such as RKLVLOG), use the System Display and Search Facility (SDSF) facility that is part of TSO. Follow these instructions to use SDSF to capture (in this example) the RKLVLOG associated with any running task in your z/OS monitoring agent.

1. From ISPF, select the SDSF option.
2. Enter the following on the command line:
   
   ```
   st taskname
   ```

   Where `taskname` is the name of the procedure whose log you are trying to display and capture. For example, entering `st cansdsst` on the command line enables you to see the Tivoli OMEGAMON XE for Storage on z/OS agent job.

3. FLUSH the message buffer to force any cached messages to be sent to the log using this command:

   ```
   f taskname,FLUSH
   ```

   **Note:** Be aware that your address space may be running with the option `WTO(N)` enabled, which limits the number of messages the product can issue. If you are using this option, you may be asked to recreate the problem without this message-suppression parameter.

4. From the SDSF screen, enter `? next to the name of the started task to display a list of the output files like the following. For example, the output files for the sample `cansdsst` task noted previously looks like this:
5. To print the RKLVLOG for this job to a dataset, type an s next to the RKLVLOG output file. Then, on the command line of SDSF, type:

```
print d
```

Press Enter. The d means that the file is printed to a dataset.

6. This action causes a panel similar to this one in [Figure 1] to be displayed:

```
COMMAND INPUT ===> SCROLL ===> CSR

Data set name ===> 'USER1.NMP181.D26033.CANSYS.SYSLOG'
Member to use ===> 
Disposition ===> NEW (OLD, NEW, SHR, MOD)

If the data set is to be created, specify the following.
Volume serial will be used to locate existing data sets if specified.
Management class ===> (Blank for default management class)
Storage class ===> (Blank for default storage class)
Volume serial ===> (Blank for authorized default volume) *
Device type ===> (Generic unit or device address) *
Data class ===> (Blank for default data class)
Space units ===> TRKS (BLKS, TRKS, CYLS, BY, KB, or MB)
Primary quantity ===> 5 (In above units)
Secondary quantity ===> 5 (In above units)
Directory blocks ===> 0 (Zero for sequential data set)
Record format ===> VBA
Record length ===> 240
Block size ===> 3120
* Only one of these fields may be specified
```

[Figure 1. SDSF print to database panel]

On this panel, type the dataset name and characteristics for the file you are printing and press Enter.

7. You are returned to the RKLVLOG output file. On the command line, specify the number of lines you want to print by entering a range that would include the entire file, such as:

```
print 1 99999999
```

Then press Enter. A message in the upper right corner of the panel tells you how many lines have been printed.

8. Type print close on the SDSF command line to close the file. The log is now saved in the dataset that was specified in Step 6.

For more information about SDSF commands, see z/OS SDSF Operation and Customization (SA22-7670).

**Ending one RKLVLOG and starting another**

When you recreate a problem to send it to IBM Software Support, you may use a z/OS MODIFY command to close the current RKLVLOG spool dataset and open a new one. This command is issued from a z/OS console. The TLVLOG command manages the recording of information to RKLVLOG. The syntax and usage of this command are as follows:
MODIFY stcname, TLVLOG=SWITCH, CLASS=class, COPIES=copies, DEST=dest,
FCB=fcb, FORM=form, HOLD=YES, MAXLINES=maxlines,
UCS=ucs, USER=user, WTRNAME=wtrname

Where:

**SWITCH**
Is the keyword that dynamically allocates a new RKLVLOG file using the current values, begins recording on the new file, and closes the current RKLVLOG file, releasing it for processing by JES.

class
Is the one-character JES SYSOUT class. **CLASS=A** is the TMS:Engine startup value.
copies
Is the copy count. The valid range is 1-254. **COPIES=1** is the startup value.

**Note:** JES2 allows 255, but JES3 allows only 254.
dest
Is the 1-8 character JES SYSOUT destination. **DEST=()** is the startup value.
fcb
Is the 1-4 character FCB name to be used. **FCB=()** is the startup value.
form
Is the 1-4 character form name to be used. **FORM=()** is the startup value.
hold
Determines whether the SYSOUT is to be placed in a JES operator hold when spun off. Specify **YES** (operator hold is requested) or NO. **HOLD=NO** is the startup value.

**Note:** If HOLD=YES is specified, you must issue the appropriate JES release command for the SYSOUT dataset to be processed by JES.

maxlines
Is the maximum number of lines to be written to RKLVLOG, in thousands (for example, **MAXLINES=2** means a maximum of 2000 lines). The valid range is 0 through 16000 (16 million lines). When this number is reached, an automatic TLVLOG SWITCH is performed, closing the current RKLVLOG and allocating a new one. If the specified value is 0, there is no maximum; you must manually enter TLVLOG SWITCH to switch log files. **MAXLINES=0** is the startup value.

**Note:** Unlike the other values, MAXLINES takes effect immediately. If the new MAXLINES value is less than the number of lines that have already been written to the current RKLVLOG, a switch is immediately performed.

ucs
Specifies the 1 to 4 character UCS name to be used. **UCS=()** is the startup value.
user
Is the 1-8 character user ID to which the SYSOUT is to be spooled. Ignored if DEST is blanks. **USER=()** is the startup value.

wtrname
Is the 1-8 character external writer name to be used. **WTRNAME=()** is the startup value.

**Usage Notes:**
1. The TLVLOG command performs up to three functions, depending on the keywords that are specified. Assuming that you selected all three functions, they are performed in the following order:
   a. Updates the dynamic allocation values. With the exception of MAXLINES, these values are used when the next dynamic allocation is performed. Values are updated whenever they are coded on the command.
   b. Lists the current dynamic allocation values. This is always done.
   c. Switches RKLVLOGs. This is done only when SWITCH is specified on the command.
Note: You may update values and request a switch with the same command; the values are updated first, then the switch is performed.

2. RKLVLOGs may be automatically closed after a certain number of records have been written to them, similar to the MVS SYSLOG processing. Refer to the MAXLINES keyword for more information.

3. To set up an automatic RKLVLOG switch whenever the TMS:Engine address space is started, add the following command to your RKANCMD startup CLIST:

   TLVLOG MAXLINES=nnn

   This command causes RKLVLOG to be automatically closed and released to JES whenever nnn thousands of lines have been written. If needed, you can add other installation-dependent values (for example, CLASS) to this command.

4. Many diagnostic messages are recorded in RKLVLOG. If you set RKLVLOG to spin off automatically, or if you explicitly switch RKLVLOG, you must ensure that the SYSOUT files are kept at least for the life of the TMS:Engine run, in case they are required for problem solving.

5. You might want to issue a TLVLOG SWITCH command after a problem occurs. This spins off the RKLVLOG data relating to the problem into a separate spool dataset, which can be included as part of the TMS:Engine standard problem documentation. Be sure to include all previously spun-off RKLVLOG files.

6. Because RKLVLOG is managed with standard IBM data management routines, records are buffered before being written. If you are viewing the currently active RKLVLOG with a product such as SDSF, you do not see the latest messages. Issue the command FLUSH TLVLOG to force the current data management buffer to be written. Do not use the TLVLOG SWITCH to spin off the current RKLVLOG for this purpose, as it unnecessarily fragments the messages recorded in RKLVLOG.

7. Unless you explicitly set a non-zero MAXLINES value, RKLVLOG never automatically switches.

8. If any error occurs when writing to RKLVLOG, TMS:Engine issues a message and disables RKLVLOG recording. However, messages continue to be written to VIEWLOG and to all active operator interfaces. Depending on the error, you may be able to restart RKLVLOG by issuing a switch request.

Here are some examples of ways to use this command:

- To list the current RKLVLOG destination and values: tlvlog
- To establish class X and destination SYSPROG as default SYSOUT attributes, and the maximum number of lines as 20,000: tlvlog class=x dest=sysprog maxlines=20
- To switch to a new RKLVLOG: tlvlog switch

Flushing the log buffers

After a TLVLOG is switched, issuing an echo command can flush the log buffers and ensure that new messages are written to the new RKLVLOG. The ECHO command echos any text entered back to the screen. The syntax of the ECHO command is shown below:

```
ECHO string
```

where string is a character string to be echoed back to the operator screen where the ECHO command was entered.

Usage Notes:

1. Use ECHO to verify that the TMS:Engine operator facility is functioning properly and to force all buffered messages to the log.
2. Even after an ECHO, log output may not be visible in JES3 systems. This is apparently a result of the way JES3 manages spool buffers.
3. Enclosing string in single quotes is not necessary unless you want to preserve leading blanks.
Submitting problems to IBM Software Support
For information about submitting problems to IBM Software Support, refer to the support appendix found in every IBM book.

Setting trace levels on a Tivoli Enterprise Monitoring Server on z/OS using the Configuration Tool

When you configure a Tivoli Enterprise Monitoring Server on z/OS using the Configuration Tool, a new Advanced panel shown in Figure 2 lets you specify the level of trace information collected for the Tivoli Enterprise Monitoring Server on z/OS.

| COMMAND ===>
| Enable Web Services SOAP Server ==> Y (Y, N)
| Enable startup console messages ==> Y (Y, N)
| Enable communications trace ==> N (Y, N, D, M, A)
| Enable storage detail logging ==> Y (Y, N)
| Storage detail logging: Hours ==> 0 (0-24) Minutes ==> 60 (0-60)
| Flush VSAM buffers: Hours ==> 0 (0-24) Minutes ==> 30 (0-60)
| Virtual IP Address (VIPA) type ==> N (S=Static, D=Dynamic, N=None)
| Minimum extended storage ==> 150000 K
| Maximum storage request size ==> 16 (Primary) ==> 23 (Extended)
| Language locale ==> 1 (Press F1=Help for a list of codes)

Persistent datastore parameters:
  Maintenance procedure prefix ==> KPDPROC
  Datastore file high-level prefix ==> ABENF.HLPLX.NV.RTE1
  Volume ==> PRI160 Storclas ==> 3390 Mgmtclas ==>

Figure 2. Configuration Tool Specify Advanced Configuration Values panel

These values affect logging and tracing on the Tivoli Enterprise Monitoring Server on z/OS:

Enable startup console messages
Set this parameter to Y if you want a SYSLOG message on the console to indicate when the TEMS finishes initializing. You can use this message in an automation script. Refer to the automation package for your site for further instructions on how to capture the KO4SRV032 and KDSMA001 TEMS automation message IDs. The default is Y.

Enable communications trace
Set this parameter to Y if you want KDC_DEBUG=Y as the override setting in &hilev.&rte..RKANPARU(KDSENV) member. Otherwise, the default setting of KDC_DEBUG=N is used. This default parameter instructs the data communications layer to report communications problems using a minimal, summary format. This parameter is intended for stable applications in production. Notice that the default KDC_DEBUG=N generates standard RAS1 trace data in the TEMS RKLVLOG, in addition to the summary information diagnosing possible timeout conditions.

The following settings report on data communications problems:
- KDC_DEBUG=N: minimal tracing (default)
- KDC_DEBUG=Y: full-packet tracing
- KDC_DEBUG=D: KDC_DEBUG=Y plus STATE & FLOW tracing
- KDC_DEBUG=M: KDC_DEBUG=D plus INPUT & OUTPUT HELPs tracing
- KDC_DEBUG=A: KDC_DEBUG=M plus all format tracing

Do not set KDC_DEBUG=A unless directed by an IBM Software Support representative.
Enable storage detail logging

Set this parameter to Y to enable storage allocation detail logging. You can use the storage detail command output to analyze storage utilization within the TEMS address space. Specifying Y generates the second EVERY command in &hilev.&rte.RKANCMDU(KDSSTART).

To disable storage detail logging, set this parameter to N, which generates the second EVERY command as a comment. To further control storage detail logging, you can also dynamically issue a modify command to the TEMS started task, as in the following example:

```bash
==> /F CANSDSST,STORAGE D
```

where CANSDSST is the name of the TEMS started task. This modify command is useful if the TEMS is already running with storage detail logging initially disabled. Issuing the modify command activates storage detail logging without having to recycle the monitoring server. The default is Y.

If you set this parameter to Y, you must also define the times for storage detail logging and flushing the VSAM buffers.

- For Storage detail logging, set the interval to monitor storage. The interval values are written as part of the second EVERY command in: &hilev.&rte.RKANCMDU(KDSSTART). The default is 0 hours (hh) and 60 minutes (mm).
- For Flush VSAM buffers, set the interval to force all deferred VSAM writes to DASD. The interval values are written as part of the command in: &hilev.&rte.RKANCMDU(KDSSTART). The default is 0 hours (hh) and 30 minutes (mm).

For additional information about the values on this panel, refer to Configuring IBM Tivoli Enterprise Monitoring Server on z/OS.
Chapter 2. Troubleshooting product-specific issues

This section summarizes the types of troubleshooting information that is available for Tivoli OMEGAMON XE for Storage on z/OS and includes links to that information. This section also describes the troubleshooting process and provides summary descriptions of the logs that provide essential troubleshooting information.

Overview

In troubleshooting for Tivoli OMEGAMON XE for Storage on z/OS, you start with a symptom, or set of symptoms, and trace them back to their cause. Troubleshooting is not the same as problem solving. However, during the process of troubleshooting you might obtain sufficient information to enable you to solve a problem. In some cases, you cannot solve a problem after determining its cause. For example, a performance problem might be caused by a limitation of your hardware. However, in the following situations, troubleshooting can lead to problem solving:

- End-user errors
- Application programming errors
- System programming errors, such as in resource definitions

Troubleshooting overview

This chapter describes the troubleshooting process and provides summary descriptions of the logs that provide essential troubleshooting information:

- "How to troubleshoot problems in Tivoli OMEGAMON XE for Storage on z/OS" on page 32
- "Sources of troubleshooting data for Tivoli OMEGAMON XE for Storage on z/OS" on page 34

Note: Chapter 1, "General troubleshooting for the OMEGAMON XE monitoring agent on z/OS," on page 1 provides information that is valid for all OMEGAMON XE monitoring agents, including specific locations of log files.

Troubleshooting tips

These chapters describe common problems that can occur with Tivoli OMEGAMON XE for Storage on z/OS and available workarounds. These problems are grouped into the following categories:

- Chapter 3, “Troubleshooting installation and configuration,” on page 39
- Chapter 4, “Troubleshooting data collection,” on page 41
  - “Tips regarding the collection of diagnostic data” on page 13
  - “Collection of monitoring data” on page 41
  - “Generation of data reports” on page 44
- Chapter 5, “Troubleshooting performance issues,” on page 47
- Chapter 6, “Troubleshooting error conditions,” on page 49
- Chapter 7, “Troubleshooting specific product features,” on page 53

Note: IBM Tivoli Monitoring Troubleshooting Guide, GC32-9458 provides information about problems and workarounds for the basic components of IBM Tivoli Monitoring.

Other sources of troubleshooting information

Consult the following resources for additional help with troubleshooting:

  This Web page provides links to Technotes, PSP Buckets, and Shop zSeries information, among many other topics.
How to troubleshoot problems in Tivoli OMEGAMON XE for Storage on z/OS

This section provides a sequential list of questions to help you troubleshoot problems with Tivoli OMEGAMON XE for Storage on z/OS. By answering these questions, you might be able to determine the source of problems and identify solutions.

1. Does the problem seem to be caused by or related to the monitoring agent?

   Note: Avoid a basic problem with Tivoli OMEGAMON XE for Storage on z/OS by understanding the basic product architecture, as described here. The Tivoli OMEGAMON XE for Storage on z/OS monitoring agent must report to a local Tivoli Enterprise Monitoring Server that is installed and configured in the same z/OS address space. The local server for each agent must report to a hub server. The hub server can be running on any supported system. (If located in a z/OS system, the hub server can also act as the local server for a specific monitoring agent.)

   Your answer: Do this next:

<table>
<thead>
<tr>
<th>Your answer</th>
<th>Do this next</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Refer to IBM Tivoli Monitoring Troubleshooting Guide. This document helps you resolve problems beyond a specific monitoring agent, such as problems with the Tivoli Enterprise Portal and problems with historical reporting.</td>
</tr>
<tr>
<td>Yes.</td>
<td>Go to Step 2. Has required maintenance been applied?</td>
</tr>
</tbody>
</table>

Do not worry if you cannot answer this question with certainty at this stage. Later in this process, you generate trace logs that can pinpoint the source of a problem.

2. Has required maintenance been applied?

   To answer this question for the monitoring agent, consult the Program Directory to confirm that all required PTFs have been installed. Also check the PSP bucket for updated requirements, as follows:
   2. Find relevant PSP Buckets. Search for PSP Buckets that have the Tivoli OMEGAMON XE for Storage on z/OS, V4.2.0 prefix: OMXES4200.
   3. Consult each PSP Bucket to learn what PTFs are required.
   4. Access the Shop z-Series Web site to obtain the PTFs: https://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

   • For the Tivoli Management Services Components:
     – Consult IBM Software Support Technotes, if any.
Determine whether fix packs are available for any components that run on distributed computers. For example, a fix pack might be available for a Tivoli Enterprise Portal that is running on a Windows computer.

See IBM Support Assistant for updates.

<table>
<thead>
<tr>
<th>Your answer</th>
<th>Do this next</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Apply maintenance and see whether the problem persists.</td>
</tr>
<tr>
<td>Yes.</td>
<td>Go to Step 3. When does the problem occur, or how does the problem occur?</td>
</tr>
</tbody>
</table>

3. When does the problem occur, or how does the problem occur?

Note: During this step, you might review the cross-referenced documentation and fail to recognize a solution to your problem. The remaining steps of this process help you understand the problem better and find documented solutions that are not obvious at first.

<table>
<thead>
<tr>
<th>Problem area</th>
<th>Refer to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install, configure agent</td>
<td>Chapter 3, “Troubleshooting installation and configuration,” on page 39</td>
</tr>
<tr>
<td>Data collection</td>
<td>Chapter 4, “Troubleshooting data collection,” on page 41</td>
</tr>
<tr>
<td></td>
<td>• Tips regarding the collection of diagnostic data” on page 13</td>
</tr>
<tr>
<td></td>
<td>• “Collection of monitoring data” on page 41</td>
</tr>
<tr>
<td></td>
<td>• “Generation of data reports” on page 44</td>
</tr>
<tr>
<td></td>
<td>• “Long-term historical data reports” on page 45</td>
</tr>
<tr>
<td>Performance issues</td>
<td>Chapter 5, “Troubleshooting performance issues,” on page 47</td>
</tr>
<tr>
<td>Error conditions</td>
<td>Chapter 6, “Troubleshooting error conditions,” on page 49</td>
</tr>
<tr>
<td>Specific product features</td>
<td>Chapter 7, “Troubleshooting specific product features,” on page 53</td>
</tr>
</tbody>
</table>

* If the cross-references in this step do not provide solutions to your problem, go to Step 4. Can trace logs reveal details about the problem?*

4. Can trace logs reveal details about the problem?

Your answer: | Do this next: |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Trace logs frequently reveal the source of a problem. However, if you are certain that trace logs cannot help you, go to Step 7. Is the problem solved?” on page 34.</td>
</tr>
<tr>
<td>Yes.</td>
<td>Read about logging in Sources of troubleshooting data for Tivoli OMEGAMON XE for Storage on z/OS” on page 34. Set up trace logs for the affected component. Also see Chapter 1. General troubleshooting for the OMEGAMON XE monitoring agent on z/OS,” on page 1 for information on these topics:</td>
</tr>
<tr>
<td></td>
<td>• Locations of IBM Tivoli Monitoring trace logs.</td>
</tr>
<tr>
<td></td>
<td>• Locations of trace logs for a specific monitoring agent.</td>
</tr>
<tr>
<td></td>
<td>• Setting up RAS1 tracing, interpreting those logs, and sending logs to IBM Software Support.</td>
</tr>
<tr>
<td></td>
<td>• Setting up OMEGAMON II debugging logs, interpreting those logs, and sending logs to IBM Software Support.</td>
</tr>
<tr>
<td></td>
<td>Note: The unique utilities in Tivoli OMEGAMON XE for Storage on z/OS, such as the Storage Toolkit and Dataset Attribute Database, log their messages to the Tivoli Enterprise Portal log. Consult the Tivoli Enterprise Portal log when you are troubleshooting these utilities.</td>
</tr>
</tbody>
</table>
Note: There is CPU and I/O overhead associated with detailed RAS1 tracing that might degrade performance of the monitoring agent. You must restore RAS1 tracing to the minimal KBB_RAS1=ERROR setting after problem diagnosis is completed.

5. Can more focused trace logs reveal more details about the problem?

<table>
<thead>
<tr>
<th>Your answer:</th>
<th>Do this next:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Go to Step 7. Is the problem solved?</td>
</tr>
<tr>
<td>Yes.</td>
<td>Define a different type of trace logging, using the methods that are referenced in Step 4. Can trace logs reveal details about the problem? on page 33.</td>
</tr>
</tbody>
</table>

Note: See the troubleshooting tips in Tips regarding the collection of diagnostic data on page 13, as needed, to ensure successful capture of diagnostic data.

6. Is there documentation for the problem that the logs reveal?

The trace logs might provide helpful key words regarding your problem, including unique message numbers. Use key words regarding your problem to search in the following sources:
- Troubleshooting Guide for the monitoring agent
- IBM Tivoli Monitoring Troubleshooting Guide, GC32-9458
- RETAIN® database

<table>
<thead>
<tr>
<th>Your answer:</th>
<th>Do this next:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Go to Step 7. Is the problem solved?</td>
</tr>
<tr>
<td>Yes.</td>
<td>Follow the instructions that are documented for the problem. Then go to Step 7. Is the problem solved?</td>
</tr>
</tbody>
</table>

7. Is the problem solved?

<table>
<thead>
<tr>
<th>Your answer:</th>
<th>Do this next:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Compile information about the problem and contact IBM Software Support. See Capturing z/OS logs to send to IBM Software Support on page 24.</td>
</tr>
<tr>
<td>Yes.</td>
<td>(No further action is required.)</td>
</tr>
</tbody>
</table>

Sources of troubleshooting data for Tivoli OMEGAMON XE for Storage on z/OS

The primary troubleshooting feature is logging. Logging refers to the text messages and trace data generated by the software. Messages and trace data are sent to an output destination, such as a console screen or a file.

Typically, text messages relay information about the state and performance of a system or application. Messages also alert the system administrator to exceptional conditions when they occur. Consult the explanation and operator response associated with the displayed messages to determine the cause of the failure.
Trace data captures information about the current operating environment when a component or application fails to operate as designed. IBM Software Support personnel use trace information to determine the source of an error or unexpected condition. Refer to the chapter on diagnostic tools in the IBM Tivoli Monitoring: Troubleshooting Guide for more information about trace tools.

Collecting data
If you have a problem that you are unable to solve using the information in this guide, gather the following information that relates to the problem and contact IBM Software Support for further assistance.

- Monitored application file.
- Appropriate RAS1 trace output.
- Description of the operation scenario that led to the problem.
- Incorrect output, such as Tivoli Enterprise Portal screen prints or a description of what you observed, if applicable.
- Log files from failing systems. You can collect all logs or logs of a certain type such as, RAS (reliability, availability, and serviceability) trace logs or message logs. Refer to “About log files for product components” for information about the locations of logs.
- Application information, such as version number and patch level.
- Operating system version number and patch level.
- Messages and other information displayed on the screen.
- Version number of the following members of the monitoring environment:
  - IBM Tivoli Monitoring. Also provide the patch level, if available.
  - Monitoring agent version number.
  - Tivoli Enterprise Portal. Select About Tivoli Enterprise Portal ... from the Help menu.

  Note: The version number of the Tivoli Enterprise Portal and the Tivoli Enterprise Portal Server must always be synchronized.

- If the systems stops on Windows, collect the `drwtsn32.log` and `user.dmp` files, if available. The files are located in the following path:

  `\Documents and Settings\All Users\Documents\DrWatson`

See the chapter on diagnostic tools in the IBM Tivoli Monitoring: Troubleshooting Guide for more information about trace tools.

1. Enter the following command at the command prompt to enable the Dr. Watson tool as default debugger: `drwtsn32 -i 2`
2. Enter the following command at the command prompt to open the configuration window of the Dr. Watson tool: `drwtsn32`

About log files for product components
The Tivoli Enterprise Monitoring Agent generates log files that contain messages and trace information. The log files contain message and trace information about the events and processing being performed. Log files provide a complete record of system activity, not just of problems. The log files are created when you start the IBM Tivoli Monitoring components.

When you encounter a problem, check the messages in the log files to determine if the source is a problem in your environment or with an IBM Tivoli Monitoring product. If you determine that the problem is caused by a product defect, follow the instructions for contacting IBM Software Support in the “Support information” on page 225. See Reproducible problems reported as Tivoli Enterprise Portal client problems on page 2 for the locations of log files. The location of the log depends on the client type and operating system the client is running on. The following sections provide locations of the fundamental types of logs:

- Logs for components on distributed systems: Table 1 on page 2, Table 2 on page 3, and Table 3 on page 4
• Logs for components on z/OS systems: “Problems affecting an OMEGAMON XE monitoring agent on z/OS” on page 5

IBM Software Support might request some or all of these files while investigating a problem you have reported. Also, you might be asked to set a trace in the client and then collect the log. Trace logging is a fundamental tool for troubleshooting in cases where a problem is reproducible.

Note: Some of the tracing options produce large amounts of trace information. Therefore, monitor the disk or spool space when activating tracing to prevent your disk or spool from reaching capacity. Return the trace settings to the default settings after the desired trace information has been collected.

Log files for each of the components are explained in the following sections.

**Tivoli Enterprise Monitoring Server on z/OS**
The log files for Tivoli Enterprise Monitoring Server on z/OS are created as defined in the started procedure when you start the Tivoli Enterprise Monitoring Server. View the log files with any text editor.

When you investigate problems with Tivoli Enterprise Monitoring Server, view the sysout data sets or spool files in the job output and view the z/OS system log for any messages that might pertain to the problem.

**Tivoli Enterprise Monitoring Server on Windows or UNIX**
The log files are created automatically when you start Tivoli Enterprise Monitoring Server on Windows or UNIX. View the log files with any text editor.

When you investigate problems with Tivoli Enterprise Monitoring Server, use the Windows Event Viewer to check that the Tivoli Enterprise Monitoring Server started correctly and to look for errors.

**Tivoli Enterprise Portal**
The log files are created automatically when you start Tivoli Enterprise Portal. View the log files with any text editor. Whenever you start a new work session, the log files are purged and written again for the current work session. To preserve the log file from the last work session, rename it or copy it to another directory before starting the Tivoli Enterprise Portal.

In desktop mode, the log files are named *kcjras1.log* and *KCJ.log*. *KCJ.log* contains any errors that might have been written by the Java libraries that are used by the Tivoli Enterprise Portal desktop client. In browser mode, the log file is named *javalog.txt* or is viewed in Java Console of Internet Explorer. You might need to edit your Internet Explorer browser options to enable the error log file on your local system. Refer to the Tivoli Enterprise Portal online help for information on enabling the log file. You can change the level of tracing by using the **File > Trace Options...** window.

In addition, logon prompts and progress messages are displayed in the Logon window status bar. This area is also used to display error messages.

When you investigate problems with Tivoli Enterprise Portal, use the Windows Event Viewer to check that the Tivoli Enterprise Portal Server started correctly and to look for errors.

**Tivoli Enterprise Portal Server**
The log files are created automatically when you start Tivoli Enterprise Portal Server. The log file is named in Table 2 on page 3. View the log files with any text editor.

When the log file reaches a 5 MB size limit, it is closed. A new file is created, with the sequential number added to make the file name unique. By default, five files are saved over the life of the Tivoli Enterprise Portal Server, up to a total of 32 files maximum. When the maximum number of files (5) have been created for a session, the files are overwritten, starting with second of five files. The first file is preserved.

You can change these values through the Manage Tivoli Monitoring Services application as follows:
1. Right-click the Tivoli Enterprise Portal Server row.
2. Select **Advanced** in the pop-up menu.
3. Select **Edit TraceParms** to access the dialog box where you can configure logging behavior.

When you investigate problems with Tivoli Enterprise Portal Server, use the Windows Event Viewer to check that the Tivoli Enterprise Portal Server started correctly and to look for errors.

You can change trace settings using the Manage Tivoli Enterprise Monitoring Services **Action > Advanced > Edit TraceParms**... window. You can also use the Service Console, accessible from the Tivoli Enterprise Portal Server using an Internet Explorer browser, to read logs and turn on traces for remote product diagnostics and configuration.

For more information about troubleshooting problems on Tivoli Enterprise Portal Server, refer to *IBM Tivoli Monitoring: Troubleshooting Guide*.

**IBM Tivoli Data Warehouse and the Warehouse Proxy Agent**

To view the Application Event Log for IBM Tivoli Data Warehouse, start the Event Viewer by clicking **Start > Programs > Administrative Tools > Event Viewer**. Select **Application** from the **Log** pull-down menu.

In the Warehouse Proxy Agent, you can set error tracing on to capture additional error messages that can be helpful in detecting problems. Refer to *IBM Tivoli Monitoring: Installation and Setup Guide* for more information.
Chapter 3. Troubleshooting installation and configuration

This chapter describes potential problems and workarounds regarding the installation and configuration of the product.

Take Action commands show return code 0, but might be unsuccessful

Take Action commands are a standard feature of the Tivoli Enterprise Portal in IBM Tivoli Monitoring and are described in the user's guide. In general, Take Action commands display a zero (0) return code in the Tivoli Enterprise Portal (which is always located on a distributed system). This code indicates successful submission of the command. The portal does not display the actual result of the command being executed. For information on the result of command execution refer to the command output in the z/OS SYSLOG for the specific system that is the target of the Take Action command.

Historical workspaces contain no data

If historical collection is not enabled and the historical workspace does not contain data, operators see message KFWITM220E Request failed during execution. displayed in the Tivoli Enterprise Portal message area.

Use the information found in IBM Tivoli Monitoring: Installation and Setup Guide to configure historical data collection and retry the operation.

Tivoli Enterprise Monitoring Server on z/OS starts normally in a system without the Integrated Cryptographic Service Facility but does not connect to the Tivoli Enterprise Portal Server

Although Integrated Cryptographic Service Facility (ICSF) provides robust password encryption, you are not required to use it because the ICSF can affect compatibility with the z/OS OMEGAMON monitoring products. The following messages are displayed when the portal server cannot connect to the monitoring server:

Call to KLE_CryptoGetFP failed with exit code 8. Cannot get CSNBXAE function pointer
Logon validation did not complete - system error. User:username
keyfile: key file: ip: ip_address

If you see these failed connection messages, perform the following steps so that the Tivoli Enterprise Portal Server can connect to the Tivoli Enterprise Monitoring Server.

1. From the Configuration Tool Configure the Tivoli Enterprise Monitoring Server steps, select Specify configuration values > Integrated Cryptographic Service Facility (ICSF) installed?
3. After the Tivoli Enterprise Monitoring Server configuration is complete and the server is running, you must modify the portal server configuration to use an older, less robust encoding algorithm by performing the following steps:
   a. Edit the kfwenv file in install_dir\CNPS (where install_dir is C:\IBM\ITM by default) using a text editor.
   b. On a separate line, enter the following text:
      USE_EGG1_FLAG=1
   c. Save the file and exit.
   d. Restart the Tivoli Enterprise Portal Server, if it is running.
Chapter 4. Troubleshooting data collection

This chapter describes potential problems and workarounds regarding data collection by the product, including the following subtopics:

- "Collection of monitoring data"
- "Generation of data reports" on page 44

Collection of monitoring data

This section describes general data collection problems.

DFSMShsm space-size values exceeded

In a system where the size of the DFSMShsm LOGY data set or the MCDS data are large, default values that Tivoli OMEGAMON XE for Storage on z/OS assigns for these data sets might be too low. To increase the capacity for MCDS information, adjust the value of the MCSDSPACESIZE parameter in RKANPARU member KDFDHSIN. To increase the capacity for HSM LOGY data, adjust the value of the LOGYDSPACESIZE parameter in the same member. These parameters may not currently exist in your KDFDHSIN member, in which case you need to add them to the bottom of the member. The values indicate the number of blocks to be allocated when the dataspace is created. Valid values for either parameter can be an integer from 0 to 2097152. If a parameter is omitted or the value is coded as zero, the installation default size is used. Consult your system programmer to find out the default size for a data space in your production environment.

Workspace displays no data or does not show all the data you expected

You have clicked on a navigation item or you have clicked on a link and the workspace either displays no data or does not show all the data that you are expecting.

Many of the workspaces that are provided in the Tivoli OMEGAMON XE for Storage on z/OS product are defined with filters. Each view in the workspace may have filters defined. These filters restrict the data that is displayed to the rows that may be interesting to the user. To view the filters that are defined to a workspace, right-click in the view and select Properties. Click the Filters tab to view or change the filters that are defined for the view. Adjust the filters to meet the needs of your enterprise. The data displayed on a workspace view is dependant on the Query supplying that data.

In some cases, the Query itself does not return the desired data. To view the Query that is returning data to the workspace view, right-click in the view and select Properties. Click the Click here to assign a query button, and examine the columns and any selection criteria.

Note: Do not modify product-provided Queries. (In many cases, modification of these queries is blocked.) If you need to change a query, make a copy of the query with a new name.


Tape collection off; no VTS data occurs

Limitation: You have configured data collection on Virtual Tape Servers (VTS), but no data is present in the VTS workspace in the Tivoli Enterprise Portal.

Workaround: This problem can occur when you are not collecting related data; the following items are prerequisites for enabling the collection of VTS data:
• Tape device collection, which you enable when you configure Tivoli OMEGAMON XE for Storage on z/OS.
• Collection of SMF record type 94.
• Be sure to add the IEFUS SMF exit to the SMFPRMnn member of SYS1.PARMLIB.

**The timing of tape refreshes is in minutes, but data only changes hourly**

**Limitation:** You have specified a tape collection interval, but data for 3494 VTS devices changes only every hour.

**Workaround:** No workaround is available. This information is extracted from SMF data written by the tape controllers. 3494 VTS controllers only write SMF records hourly. For example, you can specify a tape interval of 900 seconds (15 minutes), and a refresh operation takes place every 15 minutes. However, during a given one-hour period, only data from the previous interval is available for the refresh operation. New data is available only after the one-hour interval.

**Monitoring agent is running out of storage**

If response time is slow on the monitoring agent, check the RKLVLOG for messages about a possible storage problem. A storage usage event is generated every hour and written to the RKLVLOG. This behavior is driven by a scheduling command in RKANCMDU member KDSSTART.

The KDSSTART member of RKANCMD has the following line by default.

```
EVERY 00:60:00 STORAGE D * LOG STORAGE USE
```

Where:

**EVERY**

Is a command that is used to schedule another command for periodic execution.

**00:60:00**

Shows the hours, minutes, and second. For example, a value of 00:60:00 says run this command every 60 minutes.

**STORAGE**

Displays statistics of ITMS:Engine storage usage.

**D**

Stands for Detail. STORAGE provides both primary and extended storage statistics. This information is helpful in tuning ITMS:Engine memory management.

The default entry causes the STORAGE D command to be issued every 60 minutes. The interval at which the command is automatically issued is defined during the Tivoli Enterprise Monitoring Server configuration with the **Enable storage detail logging** parameter on the **Specify Advanced Configuration Options** panel, where the values are Y or N. There are two other settings associated with the **Enable storage detail logging** parameter:

- Set the **Storage detail logging** interval to monitor storage. The interval values are written as part of the second EVERY command in &rhilev.&midlev.RKANCMDU(KDSSTART). The default is 60 minutes.
- Set the **Flush VSAM buffers** interval to force all deferred VSAM writes to DASD. The interval values are written as part of the third EVERY command in &rhilev.&midlev.RKANCMDU(KDSSTART). The default is 30 minutes.
- To disable storage detail logging, set this parameter to N, which then generates the second EVERY command as a comment.

To control storage detail logging dynamically, you can issue the following command from the z/OS console to the monitoring server started task to enable storage detail logging:

```
MODIFY procname,STORAGE D
```
Where:

**MODIFY**

Is the z/OS operator command.

**procname**

Is the name of the monitoring server started task. The default name of monitoring server started task is CANSDSST.

**STORAGE**

Displays statistics of ITMS:Engine storage usage.

**D**

Stands for Detail. STORAGE provides both primary and extended storage statistics. This information is helpful in tuning ITMS:Engine memory management.

After you issue this command, look in the RKLVLOG for the output. See the following sample output of this command. Explanations are provided after the sample output.

<table>
<thead>
<tr>
<th>Line</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>KLVSD002 EXTENDED MAIN STORAGE INFORMATION:</td>
</tr>
<tr>
<td>02</td>
<td>KLVSD003 ALLOCATION DETAIL:</td>
</tr>
<tr>
<td>03</td>
<td>KLVSD004 SIZE(1-16) USE(414) TOTAL(4582) ACCESSED(5162)</td>
</tr>
<tr>
<td>04</td>
<td>KLVSD004 SIZE(17-32) USE(799) TOTAL(800) ACCESSED(1428)</td>
</tr>
<tr>
<td>05</td>
<td>KLVSD004 SIZE(33-48) USE(226) TOTAL(1606) ACCESSED(2061)</td>
</tr>
<tr>
<td>06</td>
<td>KLVSD004 SIZE(49-64) USE(21) TOTAL(22) ACCESSED(44)</td>
</tr>
<tr>
<td>07</td>
<td>KLVSD004 SIZE(65-80) USE(9) TOTAL(10) ACCESSED(30)</td>
</tr>
<tr>
<td>08</td>
<td>KLVSD004 SIZE(81-96) USE(16) TOTAL(16) ACCESSED(16)</td>
</tr>
<tr>
<td>09</td>
<td>KLVSD004 SIZE(97-112) USE(197) TOTAL(197) ACCESSED(197)</td>
</tr>
<tr>
<td>10</td>
<td>KLVSD004 SIZE(113-128) USE(40) TOTAL(40) ACCESSED(240)</td>
</tr>
<tr>
<td>11</td>
<td>KLVSD004 SIZE(129-144) USE(0) TOTAL(1) ACCESSED(2)</td>
</tr>
<tr>
<td>12</td>
<td>KLVSD004 SIZE(145-160) USE(1) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>13</td>
<td>KLVSD004 SIZE(161-176) USE(1) TOTAL(1) ACCESSED(2)</td>
</tr>
<tr>
<td>14</td>
<td>KLVSD004 SIZE(177-192) USE(1) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>15</td>
<td>KLVSD004 SIZE(193-208) USE(0) TOTAL(0) ACCESSED(0)</td>
</tr>
<tr>
<td>16</td>
<td>KLVSD004 SIZE(209-224) USE(0) TOTAL(5) ACCESSED(5)</td>
</tr>
<tr>
<td>17</td>
<td>KLVSD004 SIZE(225-240) USE(0) TOTAL(6) ACCESSED(7)</td>
</tr>
<tr>
<td>18</td>
<td>KLVSD004 SIZE(241-256) USE(10) TOTAL(13) ACCESSED(126)</td>
</tr>
<tr>
<td>19</td>
<td>KLVSD004 SIZE(257-288) USE(2) TOTAL(6) ACCESSED(9)</td>
</tr>
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<td>20</td>
<td>KLVSD004 SIZE(289-320) USE(0) TOTAL(1) ACCESSED(1)</td>
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<td>21</td>
<td>KLVSD004 SIZE(321-352) USE(1) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>22</td>
<td>KLVSD004 SIZE(353-384) USE(2) TOTAL(2) ACCESSED(2)</td>
</tr>
<tr>
<td>23</td>
<td>KLVSD004 SIZE(385-416) USE(1) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>24</td>
<td>KLVSD004 SIZE(417-448) USE(0) TOTAL(0) ACCESSED(0)</td>
</tr>
<tr>
<td>25</td>
<td>KLVSD004 SIZE(449-480) USE(0) TOTAL(2) ACCESSED(2)</td>
</tr>
<tr>
<td>26</td>
<td>KLVSD004 SIZE(481-512) USE(5) TOTAL(7) ACCESSED(7)</td>
</tr>
<tr>
<td>27</td>
<td>KLVSD004 SIZE(513-576) USE(0) TOTAL(0) ACCESSED(0)</td>
</tr>
<tr>
<td>28</td>
<td>KLVSD004 SIZE(577-640) USE(1) TOTAL(4) ACCESSED(4)</td>
</tr>
<tr>
<td>29</td>
<td>KLVSD004 SIZE(641-704) USE(1) TOTAL(2) ACCESSED(3)</td>
</tr>
<tr>
<td>30</td>
<td>KLVSD004 SIZE(705-768) USE(0) TOTAL(2) ACCESSED(2)</td>
</tr>
<tr>
<td>31</td>
<td>KLVSD004 SIZE(769-896) USE(1) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>32</td>
<td>KLVSD004 SIZE(897-1024) USE(1) TOTAL(4) ACCESSED(8)</td>
</tr>
<tr>
<td>33</td>
<td>KLVSD004 SIZE(1025-1280) USE(41) TOTAL(41) ACCESSED(1042)</td>
</tr>
<tr>
<td>34</td>
<td>KLVSD004 SIZE(1281-1536) USE(0) TOTAL(1) ACCESSED(11)</td>
</tr>
<tr>
<td>35</td>
<td>KLVSD004 SIZE(1537-2048) USE(3) TOTAL(4) ACCESSED(5)</td>
</tr>
<tr>
<td>36</td>
<td>KLVSD004 SIZE(2049-4096) USE(9) TOTAL(10) ACCESSED(14)</td>
</tr>
<tr>
<td>37</td>
<td>KLVSD004 SIZE(4097-8192) USE(7) TOTAL(10) ACCESSED(357)</td>
</tr>
<tr>
<td>38</td>
<td>KLVSD004 SIZE(8193-16384) USE(7) TOTAL(7) ACCESSED(151)</td>
</tr>
<tr>
<td>39</td>
<td>KLVSD004 SIZE(16385-32768) USE(0) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>40</td>
<td>KLVSD004 SIZE(32769-65536) USE(5) TOTAL(5) ACCESSED(7)</td>
</tr>
<tr>
<td>41</td>
<td>KLVSD004 SIZE(65537-131072) USE(1) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>42</td>
<td>KLVSD004 SIZE(131073-262144) USE(0) TOTAL(0) ACCESSED(0)</td>
</tr>
<tr>
<td>43</td>
<td>KLVSD004 SIZE(262145-524288) USE(1) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>44</td>
<td>KLVSD004 SIZE(524289-1048576) USE(1) TOTAL(1) ACCESSED(1)</td>
</tr>
<tr>
<td>45</td>
<td>KLVSD004 SIZE(1048577-2097152) USE(0) TOTAL(0) ACCESSED(0)</td>
</tr>
<tr>
<td>46</td>
<td>KLVSD004 SIZE(2097153-4194304) USE(0) TOTAL(0) ACCESSED(0)</td>
</tr>
<tr>
<td>47</td>
<td>KLVSD004 SIZE(4194305-8388608) USE(0) TOTAL(0) ACCESSED(0)</td>
</tr>
<tr>
<td>48</td>
<td>KLVSD005 LIMIT(8388608) SLOPE(15) SIZES(45) TOTAL(403319K)</td>
</tr>
<tr>
<td>49</td>
<td>KLVSD006 FREE(409928K) CARVED(2598K) OVERHEAD(59640)</td>
</tr>
</tbody>
</table>

Chapter 4. Troubleshooting data collection
Where:

- **01** is an ITMS:Engine header message.
- **02** is an ITMS:Engine header message.
- **03 to 47** is an ITMS:Engine message specifying the following values:
  - **SIZE**: The range (m-n, in bytes) of the sizes of data blocks in the storage area. For example, **SIZE(1-16)** indicates that this area contains all of the blocks that are from 1 to 16 bytes long.
  - **USE**: The number of blocks in use.
  - **TOTAL**: The total number of storage blocks allocated.
  - **ACCESSED**: The total number of times storage blocks in this range were accessed.

  **Note**: If the values of both **USE** and **TOTAL** are zero, the message is not displayed.

- **48** is an ITMS:Engine message specifying the following values:
  - **LIMIT**: The size (in bytes) of the largest block that can be allocated.
  - **SLOPE**: An IBM-internal parameter.
  - **SIZES**: Specifies the number of storage areas.
  - **TOTAL**: Specifies (in kilobytes) the total amount of storage.
  - **FREE**: Specifies (in kilobytes) the amount of storage available.
  - **CARVED**: Specifies the amount of storage that has been carved into specific blocks for allocation.
  - **OVERHEAD**: The amount of storage (in bytes) used for storage control.

- **50** is an ITMS:Engine message specifying the following values:
  - **x% IS IN USE**: Indicates that percentage of allocated storage that is currently in use.
  - **x% ALLOWED**: When the percentage listed above reaches this value, storage allocation quiesces until enough storage is freed to bring the IN USE percentage below this value.

- **51** is an ITMS:Engine message specifying the following values:
  - **x% HAS BEEN CARVED**: Indicates the percentage of allocated storage that is currently carved into blocks for allocation.
  - **x% ALLOWED**: The maximum amount of allocated storage which can be carved into allocatable blocks.

---

**Generation of data reports**

This section provides troubleshooting information regarding the generation of "Long-term historical data reports" on page 45.
See *IBM Tivoli OMEGAMON XE for Storage on z/OS: Planning and Configuration Guide* for information on the persistent data store, which is the repository for short-term historical data.

To troubleshoot problems with long-term data reports, also consult the following documentation for information about data warehousing, Warehouse Proxy Agent configuration, and summarization and pruning of data:

- *IBM Tivoli Monitoring: Installation and Setup Guide*
- *IBM Tivoli Monitoring Problem Determination Guide*

### Long-term historical data reports

This section provides troubleshooting information regarding the generation of historical (long-term) data reports. Always consult the following base documents for IBM Tivoli Monitoring for general information about data warehousing, the Warehouse Proxy Agent, and the Summarization and Pruning Agent:

- *IBM Tivoli Monitoring Installation and Setup Guide*
- *IBM Tivoli Monitoring Problem Determination Guide*

#### Unable to warehouse all history data

**Limitation:** Some of the historical tables for Tivoli OMEGAMON XE for Storage on z/OS are not displayed in the Historical Configuration dialog box of the Tivoli Enterprise Portal and therefore cannot be configured for data warehouse storage.

**Workaround:** No workaround is available. Not all historical tables for Tivoli OMEGAMON XE for Storage on z/OS are eligible for data warehousing. For a list of tables whose data can be warehoused, see IBM Tivoli OMEGAMON XE for Storage on z/OS: Planning and Configuration Guide.

#### SQL queries to IBM Tivoli Data Warehouse fail because of invalid column name

When you are writing a Structured Query Language (SQL) query against IBM Tivoli Data Warehouse (without using the Tivoli Enterprise Portal) where your database manager is DB2 or Oracle, the query sometimes fails, indicating that the column name is invalid.

The cause of this problem might be that your column name is greater than 30 characters in length, and DB2 and Oracle do not support column names greater than 30 characters.

The Warehouse Proxy Agent creates the table with the abbreviated column names. These abbreviations are shown in the WAREHOUSEID database table.

Additionally, column names that seem to meet the fewer than 30 characters rule might also fail when the Summarization and Pruning Agent is used because this agent adds a four-character prefix to the column name (for example, AVG_).

To avoid this problem, revise your SQL queries to match the abbreviated column names in the WAREHOUSEID table.

#### History Collection Configuration settings are lost after an upgrade

**Context:** You enabled historical reporting for an earlier release of Tivoli OMEGAMON XE for Storage on z/OS. You upgrade the agent to V4.2.0 and the ITM V6.2.1 monitoring environment.

**Limitation:** History collection customizations are lost after the upgrade and the history collection for Tivoli OMEGAMON XE for Storage on z/OS resets to the default of no attribute groups being enabled for history.

**Workaround:** Navigate to the History Collection Configuration dialog box in the Tivoli Enterprise Portal. Select OMEGAMON XE for Storage on z/OS V4.2.0 in the drop-down list. Begin customizing your history collection preferences.
Inaccurate data set counts in Dataset Attribute Database workspaces

**Context:** VSAM data sets are typically reported under their cluster name in the Dataset Attribute Database workspaces. Although the data sets contain a cluster component, a data component and an index component, these components are counted as a single data set in the Dataset Attribute Database workspaces. In addition, only the cluster component name displays in the table views to represent the data set. In counters displaying the "Total Datasets" in a group, a single VSAM data set is counted only once.

**Limitation:** After a VSAM data set has been migrated, the cluster, data and index components are treated as individual data sets by the Dataset Attribute Database workspaces. Each component appears on a separate line in table views. In counters displaying the "Total Datasets" in a group, each component is counted separately, increasing the data set count (in contrast to the count prior to migration).

**Workaround:** No workaround is available. This discrepancy occurs because the catalog entry for a VSAM dataset is changed after the data set is migrated. The catalog entry change causes an inaccurate count. In fact, the Catalog Search Index reports these component names as type 'A' (Non-VSAM data sets).
Chapter 5. Troubleshooting performance issues

This chapter describes potential problems and workarounds regarding declines in system performance. See the IBM Tivoli OMEGAMON XE for Storage on z/OS: Tuning Guide for general tuning guidelines.

Data set I/O collection tuning

Limitation: High CPU utilization in the OMEGAMON Subsystem address space, specifically with the KDFSCOL and KDFSMIG modules.

Workaround: Data set I/O collection refers to the feature of Tivoli OMEGAMON XE for Storage on z/OS which allows customers to get millisecond response time information at the data set level. Use one or both of the following methods to manage this feature:

- Turn the feature on or off at the volume level. In general, monitor only volumes for which data set response time is a critical issue or volumes that are known to have problems.
- Regulate the feature by using parameters that specify when data set level I/O monitoring starts for a volume. Apply these parameters whenever you need to monitor a large number of volumes.

Use one of the following methods to collect data set level I/O statistics for a device:

- Monitor I/O events based on a fixed interval, called sample count. Sample count specifies how often I/O events are monitored. If the sample count for a device is set to 1 (the default), every I/O event is monitored. If the sample count is set to 5, every fifth I/O is monitored. Valid values are 1 through 99.
- Activate device monitoring when there is an extended period of response-time degradation, and deactivate monitoring during periods of acceptable response time. You specify a millisecond response (MSR) trigger value for a device and a global trip count that controls the number of times an MSR exception occurs before monitoring resumes for the device. Valid values are 1 through 999.

Use the Configuration Tool to set these parameters.

Performance of the Tivoli Data Warehouse database is degraded or there are gaps where historical data is unavailable for a specified collection period

A number of symptoms indicate that your database or persistent datastore is in need of maintenance. You might, for example, note that your DB2 transaction logs are filling up. You might see gaps in the data in the middle or at the end where no historical data is available for a specified collection period. This problem also manifests itself as degraded performance, such that database inserts require an unusually long period of time. Inserts must be completed between display intervals. Operations need to completed before the next collection interval to prevent the persistent data store from wrapping.

Adhere to the following guidelines to prevent these problems:

- Practice good database maintenance. Schedule regular maintenance outages and reorganize your IBM Tivoli Data Warehouse tables, including the summarization and pruning tables, using a command to reorganize table storage, such as (in DB2) the REORG command.
- Review the appendix “Relational database design and performance tuning for DB2 database servers” appendix in the IBM Tivoli Monitoring: Administrator’s Guide to learn about DB2 tuning considerations.
- Change your Send to warehouse setting from daily to hourly.
- Increase the size of your database transaction log.
- To eliminate gaps in displays of historical data less than 24 hours old, increase the size of the persistent data store on the mainframe.
Long response times or no results returned when specifying historical collection time spans for some workspaces

For historical data collection in large data sets, the intervals that you set for refreshing historical workspaces, for data collection, and for data chunking can affect performance dramatically. For example, when you select a time span of many hours (for example, 24 hours) for a workspace where a large number (tens of thousands) of rows of data has been stored in the persistent data store, the resulting query can take 60 seconds or longer to complete. Also, the monitoring agent might use a high percentage of available CPU while the query is processed.

Apply one or more of the following solutions to mitigate this problem:

- Set the refresh interval to “on demand” in historical workspaces, as follows.
  1. Select Refresh Every in the View menu to access the submenu.
  2. Select On Demand in the submenu.

  If you set a short interval instead (60 or fewer seconds) the monitoring agent processing required might not complete within the refresh interval, causing subsequent requests to be queued. The monitoring agent then works continuously to process the query. High CPU utilization continues until the user navigates to another workspace or closes the Tivoli Enterprise Portal.

- Specify longer historical collection intervals of 30 minutes or 1 hour, instead of the 15-minute defaults, for the attribute groups that generate this problem. Longer historical collection intervals reduce the number of rows per hour stored in the persistent data store.

- Consider not collecting historical data for attribute groups that you are experiencing this problem with. Collect other data that provides the perspective on system performance or activity that you require.

- Modify the KFW_REPORT_TERM_BREAK_POINT parameter in the KFWENV file of the Tivoli Enterprise Portal Server, which is located in the $CandleHome$\CNPS path. This parameter controls how many hours of historical data (counting back from the present time) are to be retrieved from the persistent data store (short-term history) data sets. The default is 86400 seconds (24 hours). A shorter time setting creates smaller sets of data to be searched in the persistent data store by the Tivoli Enterprise Portal. Older data (data excluded by changing this parameter) can be accessed if you are populating historical data in the IBM Tivoli Data Warehouse. Be aware that modifying the KFW_REPORT_TERM_BREAK_POINT parameter affects all applications that are using the Tivoli Enterprise Portal Server.

  The Tivoli Enterprise Portal queries the IBM Tivoli Data Warehouse for data older than the value of KFW_REPORT_TERM_BREAK_POINT. Configure a one-hour warehousing interval to ensure that data is available in the IBM Tivoli Data Warehouse. A one-hour warehousing interval also improves performance of situations and real-time queries.
Chapter 6. Troubleshooting error conditions

This section describes messages that the system provides to indicate performance problems.

**KS3T830E SERVICE CHECKPOINT DATASET STORAGE EXHAUSTED**

**Limitation:** The KS3T830E message is displayed, indicating that the VSAM checkpoint database has run out of space.

**Workaround:** This condition can arise when you are using the Storage Toolkit, which is described in the *IBM Tivoli OMEGAMON XE for Storage on z/OS: User's Guide*. You use the toolkit in the Tivoli Enterprise Portal to issue action requests (commands or batch jobs) in the mainframe environment. When you issue action requests, you must manage the buildup of old results and unused requests. Otherwise, this data can build up and cause the VSAM checkpoint database to run out of space. The dialog boxes of the Storage Toolkit include a General tab that has several options to help you manage the buildup of requests and results:

- **Delete request and results after one run:** Select this option to cause deletion of this action request and any results, after the action request completes.
- **Delete after (days):** This value determines the number of days after which the results of a toolkit action request are deleted.
- **Maximum output lines:** This value determines the number of lines that are saved from the execution of the command or batch job.

See the description of the General tab in the “Storage Toolkit” chapter of the *IBM Tivoli OMEGAMON XE for Storage on z/OS: User's Guide* for detailed information. If you choose not to use these options, you can manually delete old results and unused requests before they build up.

**Understanding abend U0001**

**Limitation:** The U0001 abend itself generates an unnecessary memory dump. If the memory dumps occur frequently, system performance might be affected.

The U0001 abend (abnormal end of task) is forced any time that Tivoli OMEGAMON XE for Storage on z/OS detects that an attempt to collect space information for a volume has taken more than 15 seconds to complete. Typically, this operation completes in less than a second. The abend exists so that LSPACE tasks that run too long are terminated before they affect system performance. Otherwise, the task can affect system performance because it holds an exclusive enqueue on the volume while collecting space and fragmentation data.

**Workaround:** Avoid this problem by adding a SLIP command to the SYS1.PARMLIB to bypass memory dumps for U0001 abends in the address space of the Tivoli Enterprise Monitoring Server. An example of the SLIP command to add to the IEASLPxx member in your parmlib is as follows:

```
SLIP SET, C=U0001, JOBNAME=tems_taskname, A=NOSVCD, ID=xxxx, END
```

Tivoli OMEGAMON XE for Storage on z/OS is the only OMEGAMON product that uses the U0001 abend.

**Determining which volume being processed**

**Note:** The following points apply to this procedure:

- This procedure is relevant when you do not add the SLIP command that is described in the preceding workaround.
- This procedure is necessary because in this situation a Hang Detected message is not generated for this volser.
When Tivoli OMEGAMON XE for Storage on z/OS abends the space collection subtask with U0001, the negative effect on response time on a volume is transient. This effect is caused by DASD maintenance tasks or high contention rates on the control unit. At times, you might want to know which volume encountered the problem, so that you can take further action, if needed. Perform the following steps to analyze the memory dump that the U0001 produces to obtain the volume serial number (VOLSER) for the affected volume:

1. Select option 6 from the IPCS main menu.
2. Type SUMMARY REGS on the command line.
3. Scroll down to the KDFSPDEV program request block entry:

   EP....... KDFSPDEV

Notice that the interrupt code for the bottom request block is 0x4E. This code represents the LSPACE macro.

4. A service request block (SVRB) exists above that line. This SVRB contains the registers that were generated when the LSPACE macro was issued.

5. Inspect the contents of the R1 register.

6. Look up the address from the R1 register in the memory dump.

   - Notice the LSPA eye catcher shown in bold in the following example. This eye catcher marks the dummy control section (DSECT) for the LSPACE request.
   - Notice the offset +C in LSPA, shown in bold in the next line. This value is the UCB (unit control block) address.

   30A33378 D3E2D7C1 0018200A | LSPA....
   30A33380 00000000 020FF190 30A33390 00000000 | .......1...t....
   30A33390 00008101 C0002721 000FF5A2 00000030 | ...a.(...)Vs....
   30A333A0 0000322D 00000000 00000000 00000000 | ................

7. Look up the UCB address in the dump. Notice the bolded details in the following example:

   020FF190 00ABFFBC 196F0800 00000000 08E4C3C2 | .y....UCB
   020FF1A0 3030200F 000FF169 00010100 505249F3 | ......PRI3
   020FF1B0 F0F10002 00A00001 020FEF90 02101FA8 | 00...........
   020FF1C0 6F800101 00000000 38688072 1EB55840 | ?................
   020FF1D0 1D4CF8F0 10A78910 D8002724 274D3232 | <80.x.Q..(..

8. The VOLSER of the offending device is at offset +1C in the UCB.

**Note:** Instead of referring to the contents of the R1 register in Step 6, you can inspect the contents of the R8 register. This register points directly to the device entry in the OMEGAMON device table, as shown in the bolded parts in this example. The VOLSER is displayed at offset +6.

   296D59C0 020FF190 196F5052 49F3F8F0 0F8C0801 | .1...PRI300....
   296D59D0 00020000 32180000 FF000200 020000CC | ............)
   296D59E0 000009C 00000189 00000000 00000003 | ..........)
   296D59F0 00000128 0000005C 00000090 0000012F | ........*

**Monitoring agent receives remote procedure call errors during warehousing, with some requests timing out and failing**

While the monitoring agent is performing a warehousing operation, the agent might receive multiple remote procedure call (RPC) errors, upload failures, and specific requests that time out, while others succeed. You might see messages similar to this one in the warehousing log:

[IBM][CLI Driver][DB2/NT] SQL0911N
The current transaction has been rolled back because of a deadlock or timeout.
Reason code "2".
SQLSTATE=40001
These RPC calls may indicate that the Warehouse Proxy Agent locks up temporarily and cannot respond to new requests. Eventually, the proxy clears and continues processing. These kinds of problems are symptoms of insufficient database tuning.

If you plan to install your Tivoli Data Warehouse on DB2, you must update the DB2 configuration to reduce the likelihood of database deadlocks when large amounts of monitor data are transferred to the warehouse. Use the following examples as a guide to making the configuration changes. It is best to make these changes before installing the Warehouse Proxy Agent and Summarization and Pruning agent and creating the warehouse database. To ensure that tablespaces are created correctly, use the database creation support provided during installation (or reinstallation) of the Tivoli Data Warehouse agent from the Manage Tivoli Enterprise Services window.

To relieve database deadlock, perform the following steps:
1. Stop the Warehouse Proxy Agent and Summarization and Pruning Agent, and drop and recreate the existing warehouse database.
2. Review the appendix “Relational database design and performance tuning for DB2 database servers” appendix in the IBM Tivoli Monitoring: Administrator’s Guide to learn about DB2 tuning considerations. Then issue the following command from the DB2 command window:
   
   ```
   db2 update db cfg for WAREHOUS using parameter value
   ```

   Use the following data configuration parameters:
   
   DFT_DEGREE
   LOGBUFSZ
   LOCKLIST
   SORTHEAP
   NUM_IOSERVERS
   LOGFILSIZ
   LOGPRIMARY

3. Restart the Warehouse Proxy Agent and Summarization and Pruning Agent.

Other errors

The base components of IBM Tivoli Monitoring can generate other errors in the RKLVLOG. See the IBM Tivoli Monitoring: Troubleshooting Guide for information and messages to assist with troubleshooting framework problems.
Chapter 7. Troubleshooting specific product features

This chapter describes potential problems and workarounds for the unique features and user interface of the product:

- "Troubleshooting for the Dataset Attribute Database"
- "Troubleshooting for cross-product linking" on page 54
- "Troubleshooting for the Storage Toolkit" on page 55
- "Troubleshooting for event forwarding" on page 56

See also to the section on Tivoli Enterprise Portal in the IBM Tivoli Monitoring: Troubleshooting Guide.

Note: The unique utilities in Tivoli OMEGAMON XE for Storage on z/OS, such as the Storage Toolkit and the Dataset Attribute Database, log their messages to RKLVLOG on the Tivoli Enterprise Monitoring Server. When you are troubleshooting these utilities you must consult RKLVLOG.

Troubleshooting for the Dataset Attribute Database

This section provides problem determination information regarding the Dataset Attribute Database.

Performance degrades while this feature runs

Be aware that there is a difference between the data obtained by IDCAMS DCOLLECT and by the Dataset Attribute Database feature. See IBM Tivoli OMEGAMON XE for Storage on z/OS: User's Guide for more information.

Limitation: Performance issues occur during the Dataset Attribute data collection cycle.

Workaround: Data collection runs as set of subtasks within the address space of the Tivoli Enterprise Monitoring Server. Consider the following options when a new collection cycle is started:

- Clear the Collect Catalog data option. This setting greatly reduces the resource consumption and elapsed time of the collection cycle, but any attributes that might have been obtained from the catalog are unavailable.
- Exclude any unneeded volumes or storage groups from collection, specifying them explicitly and/or using masks.
- Schedule the collection to run only as often as necessary to rebuild the memory-resident database, and at a time when impact on the overall system will be minimal.

Data for the feature is not displayed

Limitation: No Dataset Attribute data is displayed.

Workaround: You cannot see Dataset Attribute data until a collection cycle has elapsed. The data is displayed after the collection cycle is completed. Also, data for this feature is stored in memory, not on the hard disk. Data might not be displayed for the following reasons:

- A collection cycle has not run. For example, collection is scheduled to begin at 2:00 AM and the Tivoli Enterprise Monitoring Server was stopped and started at 6:00 AM. No data is displayed until a collection cycle is completed.
- You restart the monitoring agent. Any data that was displayed is cleared from memory. No new data is displayed until the collection cycle is completed.
- A task from another application has exclusive control. Because the Dataset Attribute Database feature accesses every online volume, there is the potential for contention with other applications that use those resources simultaneously. If another task has exclusive control of a volume and Dataset Attribute Database is unable to gain access, the volume is bypassed and a message is issued to RKLVLOG.
Data collection for the feature runs too long

Limitation: Data collection is not ending within a reasonable time frame.

Workaround: Issue the S3DA STATUS command twice over the course of approximately 1 minute to see if the number of volumes processed is increasing. (The IBM Tivoli OMEGAMON XE for Storage on z/OS: User's Guide provides information on commands in the “Command-line option” section of “Appendix D. Dataset Attributes Database”). If the remaining volumes are not being processed, issue the S3DA STOP command to halt the collection cycle. If data collection still does not stop normally, or you suspect the process is in a loop (in other words, very high CPU consumption within the TEMS address space), issue the S3DA TERM command to terminate all Dataset Attribute processing.

Data for the feature is not sent to the Tivoli Data Warehouse

Limitation: Dataset Attributes tables are not being sent to the Tivoli Data Warehouse as expected.

Workaround: Ensure that both the History Collection and Warehouse intervals are set to 1 hour in the TEP Historical Configuration dialog box. Because the Dataset Attribute tables normally only change once per day when the collection cycle occurs, the Warehouse Proxy Agent does not send tables to the warehouse if it detects they have not been updated frequently enough to satisfy the historical collection interval.

Data for the feature is displayed incorrectly in the workspace

Limitation: Values displayed in Dataset Attribute workspaces seem to be in error.

Workaround: Examine the appropriate attribute from a different source program (for example, ISPF, IDCAMS) to determine whether the values are being displayed incorrectly. For example, a data set that is displayed as having negative Free space may, in fact, show a larger amount of space Used than Allocated in its VTOC entry. This indicates that the VTOC had been incorrectly updated in the past (for example, a program reaches an ABEND (abnormal end) condition before correctly setting the values).

If the attribute displayed is incorrect, contact IBM Software Support.

Troubleshooting for cross-product linking

This OMEGAMON XE product dynamically creates links to other OMEGAMON XE products when these products are installed in the z/OS monitoring environment. This section describes problems that can occur and guidelines for solving the problems.

Cross-product links missing from link list

Cross-product workspace links are displayed in the link list if the product workspace you are linking to has been installed and your Tivoli Enterprise Portal user ID is authorized to access the target product.

If a cross-product link is missing from the link list, contact your system administrator to verify the following information:

• Your user ID is authorized to access the target product.
• The target workspaces of the product are installed. OMEGAMON XE help files, workspaces, and situations are installed using the IBM Tivoli OMEGAMON Data Files for z/OS CD.

An attempt to link to the workspace of another product fails and Message KFWITM081E 'The link target cannot be found' is displayed

Many of the OMEGAMON XE products include predefined links to workspaces that are provided by other products. Message KFWITM081E is displayed whenever you try to link to a workspace that does not exist. You receive this message when the target workspaces of the product have been installed, but the monitoring agent responsible for retrieving data for the target workspace is not running.
Product workspaces are installed using the *IBM Tivoli OMEGAMON Data Files for z/OS CD*. After the workspaces are installed, all predefined links to the workspaces become enabled, and links to the target workspaces are included in the link list when an operator right-clicks a link icon.

If you installed the workspaces for products that you have not installed in your environment, links to these products are displayed as valid destinations for dynamic cross-product links. To prevent the inclusion of misleading links, install only the help files, workspaces, and situations for products that you have installed.

**Problems when linking from an OMEGAMON XE V4.2 workspace to an OMEGAMON XE V4.1 workspace**

If you are migrating from OMEGAMON XE V4.1 products to OMEGAMON XE V4.2 products, you might have a combination of V4.1 and V4.2 monitoring agents installed in your environment. For example, you might have a Tivoli OMEGAMON XE for Storage on z/OS monitoring agent and an OMEGAMON XE on z/OS V4.1 monitoring agent running on the same z/OS system during the migration period.

In this migration scenario, using dynamic workspace linking to link from an OMEGAMON XE V4.2 workspace to the workspace of another OMEGAMON XE V4.1 product works correctly, as long as the target workspace exists in the V4.1 product. If the target workspace does not exist, you receive the KFWITM081E message.

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**Troubleshooting for the Storage Toolkit**

This section provides problem determination information regarding the Storage Toolkit.

**Unable to revise settings in the Print dialog box of the Storage Toolkit**

**Limitation:** When you are working in the Print dialog box of the Storage Toolkit and you select the From/To or Skip/Count radio buttons, the radio buttons remain selected. If you decide to deselect one of the radio buttons, you cannot.

**Workaround:** Click Cancel to dismiss the dialog box. Access the dialog box again and make the revised selections that you want.

**Unable to make additional changes in the Options tab**

**Limitation:** When you enter changes in the Command tab, you are unable to make further modifications in the Options tab.

**Workaround:** If you want to enter command settings in the Options tab again, click Cancel to dismiss the dialog box, and begin constructing a new command in a new invocation of the dialog box.

**Action request from the Add VRS dialog box of the Storage Toolkit fails**

**Context:** You use the Add VRS dialog box of the Storage Toolkit to issue the DFSMSrmm ADDVRS command from RMM VRS-oriented workspaces.

**Limitation:** An action request that adds a NAME VRS and also specifies NEXT VRS fails with the following message:

```
EDG3297I STORENUMBER MUST BE SPECIFIED FOR A NAME VRS WHEN NEXTVRS OPERAND IS SPECIFIED
```

This message arises when the STORENUMBER parameter is not specified.

**Workaround:** Specify the STORENUMBER parameter in raw text form in the Command tab of this dialog box.
Create Batch Job dialog box of the Storage Toolkit does not refresh variable substitutions in some cases

**Context:** When you specify a JCL data set (or PDS member) on the Create Batch Job dialog box, the substitution table in the dialog box is refreshed with the variables that exist in the JCL.

**Limitation:** If you specify a nonexistent data set (or nonexistent PDS member), and then use the Edit JCL dialog to create it, the substitution table is not refreshed to display the variables that are in the new JCL. If you change the data set name, the substitution table might not be refreshed to display the variables in this data set. If the data set (or PDS member) is modified after you initially specify it on the Create Batch Job dialog box, the substitution table might not be refreshed to display the variables in the updated data set.

**Workaround:** Manually enter the substitution variables in the substitution table or use one of the following methods to automatically refresh the table:
- Move the cursor into the data set name field, and then press Enter.
- Move the cursor into the data set name field, and then press Tab.
- Move the cursor into the data set name field, and then click any other field in the Create Batch Job dialog.

The Edit JCL dialog box in the Storage Toolkit does not save statistics for members of partitioned data sets

**Context:** While using the Create Batch Job dialog box, you can create and edit JCL by accessing the Edit JCL dialog box. You might want to create or update JCL in a member of a partitioned data set (PDS).

**Limitation:** The Edit JCL dialog box does not apply statistics to PDS members that it saves, such as date created, date and time changed, user ID, size, and so on. Furthermore, when the Edit JCL dialog box updates a member, existing statistics are deleted.

**Workaround:** You can log on to your z/OS system and use the Reset ISPF Statistics utility to set the statistics. However, be aware that the statistics will be deleted the next time you use the Edit JCL dialog box to update the member.

Troubleshooting for event forwarding

This section provides problem determination information regarding event forwarding. This feature allows you to forward events to IBM Tivoli Enterprise Console (TEC) or IBM Tivoli Netcool/Omnibus, which specialize in management of events across an enterprise.

Incomplete event data from a situation is forwarded to IBM Tivoli Enterprise Console

**Context:** The typical situation for monitoring agents in IBM Tivoli Monitoring targets a specific resource and generates a limited amount of monitoring data. In some cases, a Tivoli OMEGAMON XE for Storage on z/OS situation can generate larger amounts of information.

For example, a situation might generate a large amount of information if it monitors multiple sub-objects on a managed system, such as a situation that monitors multiple channels. As a result, relatively large amounts of monitoring data might be generated every time that the thresholds of the situation are triggered.

**Limitation:** When TEC integration is enabled for the Tivoli OMEGAMON XE for Storage on z/OS, the IBM Tivoli Enterprise Console receives a buffer of monitoring data that cannot exceed 4K bytes in size. In most cases, this buffer size is sufficient. However, some situations in Tivoli OMEGAMON XE for Storage on z/OS can generate more than 4K bytes of data. When the data generated for the situation exceeds this limit, the excess data is truncated and is not presented at the IBM Tivoli Enterprise Console.
**Workaround:** None. For situations that can generate large amounts of data, be aware that IBM Tivoli Enterprise Console is retrieving only the first 4K bytes of data.
Chapter 8. Overview regarding messages

This topic provides an overview regarding the messages that can be generated by Tivoli OMEGAMON XE for Storage on z/OS, the Tivoli Enterprise Monitoring Agent, and the OMEGAMON II for SMS component.

Locations of message logs

The Tivoli Enterprise Monitoring Agent generates log files that contain messages and trace information. The log files contain message and trace information about the events and processing being performed. Log files provide a complete record of system activity, not just of problems. The log files are created when you start the IBM Tivoli Monitoring components.

When you encounter a problem, check the messages in the log files to determine if the source is a problem in your environment or with an IBM Tivoli Monitoring product. If you determine that the problem is caused by a product defect, follow the instructions for contacting IBM Software Support in the Support information section.

Chapter 1. General troubleshooting for the OMEGAMON XE monitoring agent on z/OS describes the locations of log files. The location of the log depends on the client type and operating system the client is running on. IBM Software Support might request some or all of these files while investigating a problem you have reported. Also, you might be asked to set a trace in the client and then collect the log. Trace logging is a fundamental tool for troubleshooting in cases where a problem is reproducible.

Note: Some of the tracing options produce large amounts of trace information. Therefore, monitor the disk or spool space when activating tracing to prevent your disk or spool from reaching capacity. Return the trace settings to the default settings after the desired trace information has been collected.

Generating and viewing log files

The log files for the Tivoli OMEGAMON XE for Storage on z/OS monitoring agent are created as defined in the started procedure when you start the Tivoli Enterprise Monitoring Agent. You can view the log files with any text editor.

When you investigate problems with the Tivoli OMEGAMON XE for Storage on z/OS monitoring agent, view the sysout data sets or spool files in the job output and view the z/OS system log file for any messages that might pertain to the problem.

Message format

The messages for this product are in the following format:

```
xxxxyyyyyz
```

where:

- **xxx**: Alpha-numeric product or component identifier. This product supports three component identifiers:
  - KS3 for Tivoli OMEGAMON XE for Storage on z/OS
  - KDF for Tivoli OMEGAMON XE for Storage on z/OS
  - KRC for OMEGAMON II for SMS

- **yyyyy**: Alpha-numeric message ID with three or more alpha-numeric characters.

- **z**: One-letter message type. Most, but not all, messages have z, the message type indicator:
  - I for informational messages, which typically do not require administrator or operator actions.
  - W for warning messages, which typically require actions.
- E for error messages, which indicate a problem that you must resolve before normal operation can continue.

This book provides the following additional information about these messages, including:
- Message text that is displayed on the same line as the message number
- A description of the system conditions that generated the message
- Suggested responses to the message

Related information

Chapter 9, “KDF and KDFA Messages,” on page 61
This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have prefixes ranging from KDF to KDFA.

Chapter 10, “KDFC Messages,” on page 81
This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have the KDFC prefix.

Chapter 11, “KDFD Messages,” on page 85
This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have the KDFD prefix.

Chapter 12, “KDFH, KDFL, and KDFM Messages,” on page 113
This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have prefixes ranging from KDFH to KDFM.

Chapter 13, “KDFS and KDFV Messages,” on page 119
This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have prefixes ranging from KDFS to KDFV.

Chapter 14, “KRC Messages,” on page 129
This section lists the OMEGAMON II for SMS messages that have the KRC prefix.

Chapter 15, “KS3 Messages,” on page 131
This section lists the messages that Tivoli OMEGAMON XE for Storage on z/OS can generate. These messages have the KS3 prefix. The messages are associated with the product components, including the following features: Storage Toolkit, Dataset Attributes Database, and the launch feature for IBM TotalStorage® Productivity Center
Chapter 9. KDF and KDFA Messages

This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have prefixes ranging from KDF to KDFA.

KDF0116E  ERROR DURING KDFSHSML SDUMPX PROCESSING, RC= [xxx], REASON= [xxx]

Explanation: An SDUMPX macro, issued during abnormal termination of HSM log analysis, has failed. The destination is the MVS system console.

System action: Abnormal termination continues.

User response: This error should not occur. Contact IBM Software Support.

KDFAAE00  UNABLE TO OPEN FORM AUTHORIZATION TABLE

Explanation: An update of the form authorization table failed. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The form authorization record is not stored.

User response: Ensure that the Tivoli Enterprise Monitoring Server Engine table database cluster was defined according to product installation instructions. Contact IBM Software Support.

KDFAAE01  UNABLE TO OPEN FORM AUTHORIZATION TABLE

Explanation: An update of the form authorization table failed. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The form authorization record is not stored.

User response: Make sure that the Tivoli Enterprise Monitoring Server Engine table database cluster has enough space and extents. If the data set has sufficient space, contact IBM Software Support.

KDFAP0000I  SERVICE PROBES INITIALIZATION HAS BEGUN

Explanation: Initialization of the service probes has begun. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probes continue initialization.

User response: None.

KDFAP0001I  SERVICE PROBES ANCHOR BLOCK HAS BEEN CREATED

Explanation: The service probes anchor block has been created. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probes initialization continues.

User response: None.

KDFAP0019S  SERVICE PROBES ANCHOR BLOCK CREATE ERROR STATUS CODE [status_code] REASON CODE [reason_code]

Explanation: The service probes anchor block cannot be created. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probes terminate.

User response: This message indicates that an internal error has occurred. Contact IBM Software Support and provide the message contents.

KDFAP0020S  SERVICE PROBES NOT INITIALIZED

Explanation: An attempt was made to use the OMEGAMON II for SMS action services before they were made available.

System action: OMEGAMON II continues to run, however the action service probes cannot be executed. The destination is the RKLVLOG from the Tivoli Enterprise Monitoring Server address space.

User response: In order to run the action service probes, the Tivoli Enterprise Monitoring Server component must be fully initialized. If it is not, initialize Tivoli Enterprise Monitoring Server and retry the probes. If the Tivoli Enterprise Monitoring Server component was initialized and already issued the message KLVIN408 CANDLE ENGINE VERSION 170 READY, then check the Tivoli Enterprise Monitoring Server RKLVLOG for these informational messages:

KDFAP0000I  SERVICE PROBES INITIALIZATION HAS COMMENCED
KDFAP0011I  SERVICE PROBES ANCHOR BLOCK HAS BEEN CREATED

If these messages are found, the service probes should be initialized. Contact IBM Software Support for further information. If these messages are not found, then the action services probes have not been initialized. To investigate further:

- Search the RKLVLOG of Tivoli Enterprise Monitoring Server for any related error messages.
• Ensure that the RKANPAR data sets for Tivoli Enterprise Monitoring Server are correct.
• Ensure that the RKANPAR data set members have not been inadvertently modified. Correct any errors and restart Tivoli Enterprise Monitoring Server.

If further assistance is necessary, contact IBM Software Support.

**KDFAP0021S - SERVICE PROBES RUNTIME PARAMETER MEMBER KDFACTIN NOT FOUND**

*Explanation:* An error occurred when an attempt was made to open the service probes runtime parameters member KDFACTIN. Member KDFACTIN cannot be found in the RKANPARS data set. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

*System action:* Message KDFAP0029 is issued and the service probes terminate.

*User response:* Verify that member KDFACTIN exists in the RKANPARS data set.

**KDFAP0022S - SERVICE PROBES RUNTIME PARAMETER MEMBER KDFACTIN OPEN ERROR RETURN CODE [return_code]**

*Explanation:* An error occurred when an attempt was made to open the service probes configuration parameter member KDFACTIN. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

*System action:* Message KDFAP0029 is issued and the service probes terminate.

*User response:* If the problem persists, contact IBM Software Support and provide the return code.

**KDFAP0023S - SERVICE PROBES RUNTIME PARAMETER MEMBER KDFACTIN READ ERROR RETURN CODE [return_code]**

*Explanation:* An error occurred when an attempt was made to read the service probes runtime parameters member KDFACTIN. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

*System action:* Message KDFAP0029S is issued and the service probes terminate.

*User response:* If the problem persists, contact IBM Software Support and provide the return code.

**KDFAP0024W - KDFACTIN RUNTIME PARAMETER [parameter_name] NOT RECOGNIZED**

*Explanation:* An unrecognized parameter was specified in the service probes runtime parameters member KDFACTIN. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

*System action:* The parameter is ignored. The service probes continue to read the runtime parameters from the member KDFACTIN.

*User response:* Correct the runtime parameters member KDFACTIN.

**KDFAP0025E - SERVICE PROBES RUNTIME PARAMETER MEMBER KDFACTIN CLOSE ERROR RETURN CODE [return_code]**

*Explanation:* A error occurred when closing the runtime parameters member KDFACTIN. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

*System action:* The service probes terminate.

*User response:* This message indicates that an internal error has occurred. Contact IBM Software Support.

**KDFAP0028I - SERVICE PROBES RUNTIME PARAMETER MEMBER KDFACTIN WAS READ SUCCESSFULLY**

*Explanation:* The runtime parameters for OMEGAMON II for SMS service requests were read successfully. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

*System action:* The service probes initialization continues.

*User response:* None.

**KDFAP0029S - SERVICE PROBES RUNTIME PARAMETER COULD NOT BE READ**

*Explanation:* The runtime parameters for OMEGAMON II for SMS service requests cannot be read. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

*System action:* The service probes terminate.

*User response:* Review any error messages that precede this one. Contact IBM Software Support if further assistance is required.
**KDFAP0030I** PARAMETER [parameter_name] HAS BEEN ASSIGNED THE VALUE [parameter_value]

**Explanation:** This message confirms the value assigned to the specified parameter by the runtime parameters member KDFACTIN. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**System action:** The service probes continue to read the configuration parameters member KDFACTIN.

**User response:** If the value is unsatisfactory, change the appropriate line in the runtime parameters member KDFACTIN.

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**KDFAP0031W** PARAMETER [parameter_name] WAS SPECIFIED PREVIOUSLY

**Explanation:** The value assigned to the specified parameter has already been assigned. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**System action:** The duplicate value is ignored and the service probes continue initializing.

**User response:** Check the runtime parameters member KDFACTIN and remove the duplicate specification of this parameter value.

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**KDFAP0033W** PARAMETER [parameter_name] VALUE [parameter_value] IS TOO LONG. MAXIMUM LENGTH IS [maximum_length].

**Explanation:** The value assigned to the specified parameter is too long. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**System action:** The parameter assignment is ignored. The service probes continue initializing.

**User response:** Correct or remove the specified runtime parameter.

---

**KDFAP0034W** PARAMETER [parameter_name] VALUE [parameter_value] IS TOO LARGE. MAXIMUM VALUE IS [maximum_value].

**Explanation:** The value assigned to the specified parameter is too large. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**System action:** The parameter specification is ignored. The service probes continue initializing.

**User response:** Correct or remove the specified runtime parameter.

---

**KDFAP0035W** PARAMETER [parameter_name] VALUE [parameter_value] IS TOO SMALL. MINIMUM VALUE IS [minimum_value].

**Explanation:** The value assigned to the specified parameter is too small. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**System action:** The parameter specification is ignored. The service probes continue initializing.

**User response:** Correct or remove the specified runtime parameter.

---

**KDFAP0036W** PARAMETER [parmname] VALUE [parmvalue] IS NOT NUMERIC

**Explanation:** A non-numeric value was specified for the numeric parameter. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**System action:** The incorrectly specified value is ignored. Service probes continue initializing.

**User response:** Correct or remove the specified runtime parameter.

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**KDFAP0039E** RUNTIME PARAMETER [parameter_name] HAS NOT BEEN SPECIFIED AND WILL NOT BE DEFAULTED

**Explanation:** A valid assignment for the specified parameter cannot be found in the runtime parameters member KDFACTIN. The parameter cannot be defaulted.

**System action:** The service probes terminate.

**User response:** Add an assignment for the specified parameter to the runtime parameters member KDFACTIN and restart the service probes.

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**KDFAP0040S** SERVICE PROBES ADMINISTRATION RECORD READ ERROR

**Explanation:** An attempt to read the administration record from the checkpoint data set failed. The administration record contains information associated with service requests issued during previous executions of the data collection (Tivoli Enterprise Monitoring Server) address space. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**System action:** The service probes initialization terminates and service requests are not accepted for the remainder of the data collection (Tivoli Enterprise Monitoring Server) address space execution.

**User response:** Determine why the administration record cannot be read. If the service request checkpoint data set has been corrupted, restore the data set from a backup or delete and recreate the data set.
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Note: Previously issued service requests status and response information can be lost by restoring or recreating the checkpoint data set.

KDFAP0042W SERVICE PROBES CHECKPOINT DATASET OPEN

Explanation: An attempt to open the checkpoint data set for service requests failed. The service probes assume that this is the first time the checkpoint data set has been utilized. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probes perform a cold start and write an administration record to the checkpoint data set.

User response: None, unless the checkpoint data set has been utilized by the service probes previously. If it has been utilized previously, attempt to determine why an administration record cannot be found. If necessary, contact IBM Software Support.

KDFAP0043S SERVICE PROBES ADMINISTRATION RECORD NOT RECOGNIZED

Explanation: An administration record that is not valid was found in the service checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probes terminate.

User response: Investigate why the administration record is not valid. To permit the service probes to initialize, restore the service checkpoint data set (to restore any completed requests and responses), or redefine the service checkpoint data set (to reinitialize the service probes). If necessary, contact IBM Software Support for assistance.

KDFAP0044I SERVICE PROBES ARE BEING COLD STARTED

Explanation: The service probes are being cold started. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: Service probes initialization continues. A new administration record is written to the service checkpoint data set and the initialization continues.

User response: None.

KDFAP0045I SERVICE PROBES ADMINISTRATION RECORD FOUND

Explanation: A valid administration record was found in the service checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probes are warm started.

User response: None.

KDFAP0046I SERVICE PROBES ARE BEING WARM STARTED

Explanation: The checkpoint data set for service requests has been successfully opened and checkpoint information is used to restore service request information. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: Service probes initialization continues. Any completed requests and responses at the time of the previous termination are restored.

User response: None.

KDFAP0047W SERVICE REQUEST RECORD FOR REQUEST [nnn] IS NOT RECOGNIZED

Explanation: A service request record that is not valid, request ID nnn, was found in the service checkpoint data set when attempting to restore service requests from the checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The invalid request record is deleted. The request restoration processing continues.

User response: Investigate why the record was not valid. If the problem cannot be determined, contact IBM Software Support.

KDFAP0050I [number_of_requests] SERVICE REQUESTS HAVE BEEN RESTORED

Explanation: The specified number of service requests have been restored from the service checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probes continue initialization.

User response: None.

KDFAP0090I SERVICE PROBES INITIALIZATION HAS COMPLETED

Explanation: The initialization of the service probes has completed. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probes await service requests.

User response: None.
KDFAP0091S  SERVICE PROBES INITIALIZATION HAS FAILED

Explanation:  The initialization of the service probes failed.  The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action:  The service probes indicate they are unable to process service requests.

User response:  See the previous messages for the cause of the failure.

KDFAP0100I  SERVICE PROBES TERMINATION HAS BEGUN

Explanation:  The termination of the service probes began.  The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action:  The service probes termination continues.

User response:  None.

KDFAP0101I  SERVICE PROBES TERMINATION HAS COMPLETED

Explanation:  The termination of the service probes completed.  The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action:  The service probes terminate.

User response:  None.

KDFAP0110A  OMEGAMON II for SMS SERVICES IN PROGRESS.  DELAY SHUTDOWN(Y/N)?

Explanation:  Service requests on DASD volumes or data sets are currently in progress.  The console operator must reply Y to delay the shutdown of the data collection (Tivoli Enterprise Monitoring Server) address space, or N to continue with immediate shutdown.

System action:  The address space shutdown is suspended until the console operator replies to the message.

User response:  
- Reply Y or YES to delay the shutdown of the data collection (Tivoli Enterprise Monitoring Server) address space until active service requests are completed.
- Reply N or NO to proceed with an immediate shutdown of the data collection (Tivoli Enterprise Monitoring Server) address space.
- Any other reply causes the WTOR message to be reissued.

Note:  Proceeding with the shutdown can cause damage to DASD volumes and data sets currently being processed by the address space.

If a NO reply is issued, use the data logged in the MSG System Log and the RKLVLOG of the data collection (Tivoli Enterprise Monitoring Server) address space to review the service requests in progress at the time of shutdown.  Refer to messages KDFAP120I and KDFAP130I.

KDFAP0111I  ADDRESS SPACE WILL BE SHUTDOWN IMMEDIATELY

Explanation:  This message is issued when the reply to message KDFAP0110A was N or NO.  The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG, and the MVS system console.

System action:  The data collection address space terminates immediately, abnormally terminating (ABEND SA03) the current services in progress.

User response:  None.

KDFAP0112I  SHUTDOWN IS DELAYED UNTIL SERVICES COMPLETE

Explanation:  This message is issued when the user replies Y or YES to message KDFAP0110A.  The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG, and the MVS system console.

System action:  The data collection (Tivoli Enterprise Monitoring Server) address space shutdown is delayed until all services requests in execution are completed.  Normal termination is resumed after service requests have completed.

User response:  None.

KDFAP0113I  INVALID REPLY.  Y=DELAY SHUTDOWN N=IMMEDIATE SHUTDOWN

Explanation:  This message is issued when a reply that is not valid is received for message KDFAP0110A.  The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG, and the MVS system console.

System action:  The console operator is prompted again for a decision to delay the data collection (Tivoli Enterprise Monitoring Server) address space shutdown by reissuing message KDFAP0110A.

User response:  Reply Y or N to message KDFAP0110A.

KDFAP0114W  SERVICE REQUEST [reqid] COULD NOT BE CANCELED

Explanation:  The service probes attempted to cancel an action request when preparing for termination; however, the attempt failed.  This should not have any significant impact on the service probes.  The destination is the Tivoli Enterprise Monitoring Server Engine log file,
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RKLVLOG, and the MVS system console.

System action: The service probes continue to terminate.

User response: None.

KDFAP0115I OMEGAMON II SMS SERVICES COMPLETED

Explanation: This message follows message KDFAP0112I and indicates that the outstanding service requests causing the data collection (Tivoli Enterprise Monitoring Server) address space shutdown delay have completed. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG, and the MVS system console.

System action: The service probes termination completes and the data collection (Tivoli Enterprise Monitoring Server) address space continues with shutdown processing.

User response: None.

KDFAP0120I SERVICE IN PROGRESS AT SHUTDOWN

Explanation: This message precedes the list of active services requests at data collection (Tivoli Enterprise Monitoring Server) address space shutdown. Message KDFS0130S follows this message and lists the service requests in progress. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG, and the MVS system console.

System action: See message KDFAP0130I.

User response: See message KDFAP0130I.

KDFAP0121W SERVICE PROBES ANCHOR BLOCK DESTROY ERROR STATUS CODE [status_code] REASON CODE [reason_code]

Explanation: The service probes anchor block cannot be destroyed. This message should not have any significant impact on the service probes. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: Message KDFAP0100 is issued and the service probes terminate.

User response: None.

KDFAP0130I [service_request] ON [volser_or_dataset] name STARTED AT [yy/mm/dd] [hh:mm:ss]

Explanation: This message follows message KDFAP0120I and is issued for each service request in progress at the time of data collection (Tivoli Enterprise Monitoring Server) address space shutdown.

System action: Termination processing for the address space is suspended. WTOR message KDFS0110A is issued to prompt the console operator to delay the shutdown until service requests on DASD volumes and data sets complete.

User response: If an immediate shutdown is requested, or the address space is cancelled while the service requests were in progress, integrity of the DASD volume or data sets should be reviewed. If necessary, manual recovery processing should be taken to restore the DASD volume or data sets. The recovery processing depends on the service in progress:

Any HSM service requests
   No recovery processing required.

DFDSS Compress Dataset
   If the data set is damaged, recover the data set from the HSM BACKDS taken immediately before compress processing was initiated.

DFDSS Defragment Volume
   DADSM message IEC602 is issued if a data set is accessed on a volume where DFDSS DEFRAG did not complete. Data set SYS.DFDSS.DEFRAG.xxxxx.volser.DUMMY is allocated on the volume by DFDSS and remains on the volume if the defragmentation was interrupted. Resubmit a DFDSS DEFRAG request on the volume to correct the problem.

   Note: OMEGAMON II also issues an HSM incremental backup before initiating defragment volume processing. If the IEC602 message is not corrected by resubmitting the defragmentation request, or if immediate access to data sets on the volume are required, an HSM recovery request can be used to restore individual data sets on the volume, or a HSM dump restore and incremental forward recovery can be used to restore the entire volume.

All other DFDSS service requests
   No recovery processing required.

KDFAP0900E DFDSS ACTION REQUEST ADDRESS SPACE HAS NOT BEEN CONFIGURED REFER TO CANDLE DOCUMENT [DF99-4853], [DSS VSCR], FOR CONFIGURATION INFORMATION

Explanation: The SLAVESTCNAME parameter was not found in the KDFACTIN member of data set rhlerv.RKANPAR. This parameter is required to execute DFDSS action requests. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The service probe initialization fails.
All data set and volume action probes are suspended for further execution.

User response: None.

KDFAP1010W  FREE FAILED FOR
  DDNAME=[ddname]. RC=[retcode]
  ERROR=[errcode] INFO=[infocode]

Explanation: An attempt to deallocate the dynamically allocated [ddname] failed with the indicated SVC99 [errcode] and [infocode].

System action: Processing continues.

User response: Examine the Tivoli Enterprise Monitoring Server SYMSGD DD to determine if any other system or product messages appear that more fully explain the nature of the error. If the problem persists, contact IBM Software Support.

KDFAP1020W  DELETE FAILED FOR RESPONSE DATASET [data_set_name]

Explanation: An attempt to delete the service response data set named [data_set_name], created for a toolkit request, failed.

System action: Completion of toolkit processing continues.

User response: Examine the Tivoli Enterprise Monitoring Server SYMSGD DD to determine if any other system or product messages appear that more fully explain the nature of the error. If the problem persists with subsequent service response data sets, contact IBM Software Support.

KDFAP1110E  UNABLE TO ALLOCATE SERVICE RESPONSE DATASET. RC= [p0]

Explanation: The routine called to satisfy a service request cannot allocate a temporary VIO data set for control statements read by utility programs. VIO data set allocation cannot be satisfied for the address space, or installation exits prevent the allocation of the data set. The most likely cause of the problem is that the response data set was deleted or is currently allocated by another address space.

System action: The service request fails and a -5000 is set for the return code of the request.

User response: Ensure that the data collection (Tivoli Enterprise Monitoring Server) address space is configured properly for the system. Review the appropriate destination:

OMEGAMON II for SMS
  The Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

All other products
  The data collection (Tivoli Enterprise Monitoring Server) address space SYSTSPRT output file.
KDFAP1140I  NO ADDITIONAL INFORMATION IS AVAILABLE

Explanation:  The routine called to satisfy a service request did not receive any response text for the request.

System action:  The service request completes normally.

User response:  Review the appropriate destination:

OMEGAMON II for SMS
   The Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

All other products
   The data collection (Tivoli Enterprise Monitoring Server) address space SYSTSPRT output file.

KDFAP1220E  REXX ERROR EXECUTING EXEC [exec_name].  REXX RETURN CODE [retcode]

Explanation:  A REXX error, indicated by [retcode], occurred when invoking the specified REXX exec.

System action:  The attempt to perform the associated service request is terminated. See TSO/E REXX Programming Services IRXEXEC return codes for a description of the actions taken by REXX.

User response:  See the REXX messages issued prior to this message for more information regarding the error.

KDFAP1230E  NULL RESULT FROM REXX EXEC [exec_name]

Explanation:  A null result was returned by the specified REXX exec. The exec should provide a numeric result.

System action:  None.

User response:  This error could have been caused by an error in the stated REXX exec. Unless you have changed the exec, contact IBM Software Support providing this message with the REXX exec name. If this problem has not been reported previously, you must determine why the REXX exec did not return a numeric result. The routine calling REXX, KDFIRACT, could have failed to indicate that the REXX exec was being called as a command, or a REXX error could have occurred. REXX should detect an error (and issue message IRX0026) if a non-numeric result is being returned by an exec called as a command.

KDFAP1231E  NON-NUMERIC RESULT FROM REXX EXEC [exec_name]

Explanation:  A non-numeric result was returned by the specified REXX exec. The exec should provide a numeric result.

System action:  None.

User response:  This error could have been caused by an error in the stated REXX exec. Unless you have changed the exec, contact IBM Software Support providing this message with the REXX exec name. If this problem has not been reported previously, you must determine why the REXX exec did not return a numeric result. The routine calling REXX, KDFIRACT, could have failed to indicate that the REXX exec was being called as a command, or a REXX error could have occurred. REXX should detect an error (and issue message IRX0026) if a non-numeric result is being returned by an exec called as a command.

KDFAP1291E  UNABLE TO ISSUE [p0]

Explanation:  An attempt to issue the specified message using the TSO/E PUTLINE service failed. The destination is the MVS control console (WTO).

System action:  An abend U0910 occurs after this message is issued and a dump is taken.

User response:  See the description of the message that cannot be issued. To determine why the TSO/E PUTLINE service failed, contact IBM Software Support providing this message and the message that cannot be issued. Also, have the abend U0910 dump available. This message should never be issued. It is issued only if the TSO/E PUTLINE service responds with a return code other than 0, 12, or 16. No other return codes should be applicable in the KDFIRACT environment.

KDFAP1292E  UNABLE TO ISSUE [p0] - INVALID PARAMETERS

Explanation:  An attempt to issue the specified message using the TSO/E PUTLINE service failed. TSO/E indicated the associated parameters were not valid. The destination is the MVS control console (WTO).

System action:  An abend U0920 occurs after this message is issued and a dump is taken.

User response:  See the description of the message that cannot be issued. To determine why the TSO/E PUTLINE service failed, contact IBM Software Support providing this message and the message that cannot be issued. Also, have the abend U0920 dump available. This message is issued when the TSO/E PUTLINE service provides return code 12. The dump should be examined to determine why the parameter list was not valid.

KDFAP1293E  UNABLE TO ISSUE [p0] - INSUFFICIENT STORAGE

Explanation:  An attempt to issue the specified message failed. TSO/E indicated that there was insufficient storage to issue the message. The destination is the MVS control console (WTO).

System action:  The system action depends on the text of the message that cannot be issued. Refer to the
KDFAP1310E  INCOMPATIBLE LEVEL OF TSO/E.
VERSION 2.3.0 OR ABOVE REQUIRED.
VERSION=[version]
RELEASE=[release]

Explanation: The action services could not be initialized because an unsupported version of TSO/E (indicated by [version] and [release]) was found. Action services requires TSO/E VERSION 2.3.0 or above to satisfy action requests.

System action: The action request processing is disabled for the remainder of the data collection (Tivoli Enterprise Monitoring Server) address space execution.

User response: Install the required version of TSO/E before attempting to issue any action requests.

KDFAP1410E  LOAD FAILED FOR
MODULE=[module_name]
ABEND=[abend_code] REASON
CODE=[reason]

Explanation: An attempt to load [module_name] failed with the indicated ABEND and Reason codes.

System action: Processing continues or terminates according to the information contained subsequent messages.

User response: Verify that [module_name] is in the Tivoli Enterprise Monitoring Server RKANMOD or RKANMODL load library concatenations and is executable. If it is available and executable, contact IBM Software Support.

KDFAP1420E  TSO/E ENVIRONMENT
INITIALIZATION FAILED. RETURN
CODE [ rc] REASON CODE [ reason]
ABEND CODE [ abend].

Explanation: An attempt to initialize the TSO/E environment for processing of OMEGAMON II for SMS service requests failed.

System action: Service request processing is disabled for the remainder of the Tivoli Enterprise Monitoring Server (data collection) address space execution, and OMEGAMON II for SMS service requests are not accepted.

User response: Using the return code, reason code, and abend code displayed, determine why the TSO/E environment cannot be initialized. Correct the error and restart the Tivoli Enterprise Monitoring Server address space to enable service request processing. If the cause of the initialization failure cannot be determined, contact IBM Software Support for assistance. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1420I KDFAP1420I WAITING x SECONDS
FOR SYSZTIOT . . .

Explanation: In attempting to initialize a TSO environment for use by the service probes, IKJTSOEV finished with a return code indicating that the allocation of SYSTSIN failed because another task is holding the lock for SYSZTIOT. A retry is in progress after having waited for x seconds since the last try.

System action: The monitoring server retries this initialization four more times, doubling the wait interval each time. If the initialization is not successful after the fourth retry, message KDFAP1420E is issued and the service probes are be available until the monitoring server is restarted.

User response: None. This message is informational.

KDFAP1430E  CONDITION VARIABLE
INITIALIZATION FAILED. ERROR
NUMBER [ nnn].

Explanation: An attempt to initialize a POSIX condition variable used for service requests completion notification has failed.

System action: Service request processing is disabled for the remainder of the Tivoli Enterprise Monitoring Server (data collection) address space execution, and OMEGAMON II for SMS service requests are not accepted.

User response: Contact IBM Software Support for assistance. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1440E  MUTEX VARIABLE INITIALIZATION
FAILED. ERROR NUMBER nnn.

Explanation: An attempt to initialize a POSIX mutual exclusion variable used for service request serialization locks has failed.

System action: Service request processing is disabled for the remainder of the Tivoli Enterprise Monitoring Server (data collection) address space execution, and OMEGAMON II for SMS service requests are not accepted.

User response: Contact IBM Software Support for assistance. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1450E  UNABLE TO VERIFY PROPER
FORMAT FOR MODULE KDFCRAET

Explanation: Module KDFCRAET was loaded but the data found in the module was not in the format.
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The service probes cannot accept a new request.

System action: Service request initialization fails, and OMEGAMON II for SMS service requests are not accepted for the remainder of the Tivoli Enterprise Monitoring Server (data collection) address space execution.

User response: This message indicates that an internal error has occurred. Verify that the KDFCRAET module was installed correctly and placed in an APF-authorized library. Contact IBM Software Support for further assistance. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1510E SERVICE PROBES COULD LOCATE ANCHOR BLOCK. STATUS= [status] REASON= [reason].

Explanation: This message indicates that the service probes which attempt to locate the anchor block containing administrative control data have failed.

System action: The service probes request fails and returns an error status to the application program making the request.

User response: This message indicates that an internal error has occurred. Contact IBM Software Support and provide the message. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1520E UNABLE TO CREATE RESPONSE DATASET [dsname] FOR REQUEST [reqid]

Explanation: The service probes cannot create and catalog the specified service response data set for service request reqid.

System action: The service probes request fails and returns an error status to the application program making the request.

User response: Ensure that the OMEGAMON II service request parameters specified in the KDFFACTIN member of the runtime parameters data set has been configured properly. Also verify that the security access rights have been granted to the data collection (Tivoli Enterprise Monitoring Server) address space to allow data set create, delete, read, and write access to service response data sets. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1550S SERVICE REQUESTS DISABLED DUE TO CHECKPOINT FAILURE

Explanation: This message is issued after a fatal checkpoint failure has been detected. Refer to messages issued prior to this message to determine the exact cause of the failure.

System action: The service request being processed fails and an error return code is set for the request. Additionally, service request processing is disabled and no new service requests are accepted.

User response: Ensure that the OMEGAMON II checkpoint data set has not been overwritten and free space has not been exhausted. If the checkpoint data set is damaged, the data set can be restored to its original state from a data set backup of the VSAM cluster, or it can be deleted and recreated. Restoration can cause the loss of service requests that were checkpointed after the backup was taken. This problem can occur because a large number of service requests were issued and never deleted. If a large number of unwanted service requests are retained in the checkpoint data set, issue delete requests to clear the unwanted requests and allow request identifiers to be reused. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1560E UNABLE TO CANCEL REQUEST [reqid] STATUS= [status]

Explanation: This message is issued when an attempt to cancel a service request that is awaiting execution or is currently executing, fails. This message is normally issued during the shutdown of the data collection (Tivoli Enterprise Monitoring Server) address space when service requests are either awaiting execution or executing. Service requests awaiting execution are restored upon restart of the data collection (Tivoli Enterprise Monitoring Server) address space, if possible. This message can also be issued in response to a delete operation on service requests that are awaiting execution.

System action: An error code is returned if the cancellation failure occurred as a result of a delete.
operation. Otherwise data collection (Tivoli Enterprise Monitoring Server) address space termination processing continues.

**User response:** If this message is issued in response to a delete action against a service request awaiting execution, contact IBM Software Support for assistance. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFAP1600I SERVICE REQUEST [reqid] STARTED. [action] ON [objcass] [object].**

**Explanation:** This message indicates that a service request has begun execution.

**System action:** The service request completes normally but the cataloged data set containing the response text is kept until the text can be successfully copied to the checkpoint data set. The service probes attempt to copy the response text upon the next restart of the data collection (Tivoli Enterprise Monitoring Server) address space.

**User response:** If the checkpoint data set is full, issue delete operations on unwanted service requests to allow storage in the checkpoint data set to be reused. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFAP1610E UNABLE TO READ CHECKPOINT DATASET FOR UPDATE FOR REQUEST [reqid].**

**Explanation:** This message indicates that the service probes cannot recall the existing service request reqid from the checkpoint data set.

**System action:** The service request fails with a nonzero return code. The time of the failure is noted, and a negative return code value for the request is set.

**User response:** This message indicates that an internal error has occurred. If the cause of the error cannot be determined, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFAP1620E UNABLE TO UPDATE CHECKPOINT DATASET FOR REQUEST [reqid].**

**Explanation:** This message indicates that the service probes cannot update the existing service request reqid in the checkpoint data set.

**System action:** The service request fails with a nonzero return code; the time of the failure is noted, and a negative return code value for the request is set.

**User response:** This message indicates that an internal error has occurred. If the cause of the error cannot be determined, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFAP1630W UNABLE TO CONSOLIDATE RESPONSES FOR REQUEST reqid.**

**Explanation:** This message indicates that the service probes cannot copy text from a response data set into the checkpoint data set. Text temporarily stored in response data sets is copied to the checkpoint data set following completion of each request. Response data sets are only deleted if the text is successfully copied to the checkpoint data set. The most likely causes of the failure are:

- Data collection address space shutdown was in progress during an attempt to consolidate the response text.
- Lack of sufficient free storage in the checkpoint data set to receive the response text.

**System action:** The service request completes normally but the cataloged data set containing the response text is kept until the text can be successfully copied to the checkpoint data set. The service probes attempt to copy the response text upon the next restart of the data collection (Tivoli Enterprise Monitoring Server) address space.

**User response:** If the checkpoint data set is full, issue delete operations on unwanted service requests to allow storage in the checkpoint data set to be reused. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFAP1640E UNABLE TO DELETE CHECKPOINT RECORD FOR REQUEST [reqid].**

**Explanation:** The service probes cannot delete the existing service request reqid in the checkpoint data set.

**System action:** The deletion of the request fails and a return code is issued indicating that the delete failure is returned to the application program issuing the delete.

**User response:** This message indicates that an internal error has occurred. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFAP1645E TIMED-OUT WAITING FOR CHECKPOINT DATASET LOCK (KDFRRAQD).**

**Explanation:** The service probes cannot obtain the checkpoint data set lock.

**System action:** The request fails. A return code is issued to the application making the request.

**User response:** This message indicates that an internal error has occurred. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFAP1650E  UNABLE TO READ ADMINISTRATION RECORD FROM CHECKPOINT DATASET.

**Explanation:** This message indicates that the service probes cannot recall the administration record from the checkpoint data set.

**System action:** The service request fails with a nonzero return code time of the failure is noted, and a negative return code value for the request is set.

**User response:** This message indicates that an internal error has occurred. If the cause of the error cannot be determined, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

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KDFAP1660E  UNABLE TO UPDATE ADMINISTRATION RECORD IN CHECKPOINT DATASET.

**Explanation:** The service probes cannot update the administration record in the checkpoint data set.

**System action:** The service request fails with a nonzero return code. The time of the failure is noted, and a negative return code value for the request is set.

**User response:** This message indicates that an internal error has occurred. If the cause of the error cannot be determined, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

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KDFAP1670E  UNABLE TO ADD NEW CHECKPOINT RECORD FOR REQUEST [ reqid ]

**Explanation:** The service probes cannot add a record to the checkpoint data set for a new service request. The most likely cause of the failure is lack of sufficient free storage in the checkpoint data set to receive the request record.

**System action:** The service request fails with a nonzero return code. The time of the failure is noted, and a negative return code value for the request is set.

**User response:** Determine why the checkpoint data set cannot be updated. If the checkpoint data set is full, issue delete operations on unwanted service requests to allow storage in the checkpoint data set to be reused. If the cause of the error cannot be determined, contact IBM Software Support for further assistance. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

KDFAP1690I  SERVICE REQUEST [reqid] COMPLETED. RC=[ rc ]

**Explanation:** This message indicates that service request reqid has completed execution.

**System action:** The next service request in queue (if any) is executed.

**User response:** The service request status and detail panels can be used to review the success or failure of the completed service request. If the record of the service request is no longer needed, a delete operation should be issued on the service request to allow storage in the checkpoint data set to be reused. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

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KDFAP1701E  UNABLE TO ALLOCATE SERVICE RESPONSE DATASET [dataset_name ] RETURN CODE [ return_code ] REASON CODE [ reason_code ] INFO CODE [ info_code ]

**Explanation:** An attempt to dynamically allocate the specified service response data set failed. The service probes are unable to copy a service response from a service response data set. The return code, reason code, info code, and message text provide detailed information regarding the error.

**System action:** The service probes do not attempt to copy the service response again during this execution of the service probes.

**User response:** Determine why the dynamic allocation failed. The return code, reason code, and info code are documented in the MVS/ESA Authorized Assembler Programming Guide. If necessary, contact IBM Software Support and provide the message contents. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

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KDFAP1701I  UNABLE TO ALLOCATE SERVICE RESPONSE DATASET [dataset_name ] RETURN CODE [ return_code ] REASON CODE [ reason_code ] INFO CODE [ info_code ]

**Explanation:** An attempt to dynamically allocate the specified service response data set failed. The service probes are unable to copy a service response from a service response data set. The return code, reason code, info code, and message text provide detailed information regarding the error.

**System action:** The service probes do not attempt to copy the service response again during this execution of the service probes.

**User response:** Determine why the dynamic allocation failed. The return code, reason code, and info code are documented in the MVS/ESA Authorized Assembler Programming Guide. If necessary, contact IBM Software Support and provide the message contents. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFAP1702E  SERVICE RESPONSE DATASET
OPEN ERROR [dataset_name ]
    [reason]
Explanation: An attempt to open the specified service response data set failed.
System action: Unpredictable, as the system action is dependent upon the action that failed.
User response: Investigate the problem. See the following message. If appropriate, contact the IBM Software Support and provide the message. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1703E  SERVICE RESPONSE DATASET GET ERROR [dataset_name ] [reason]
Explanation: An attempt to get a record from the specified service response data set failed.
System action: Unpredictable, as the system action is dependent upon the action that failed.
User response: Investigate the problem. See the following message. If appropriate, contact IBM Software Support and provide the message. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1704E  INVALID VALUES FOR SPACE [space] FOR ACTION [action]
Explanation: An invalid action effector table entry for the SPACEAE column was found.
System action: The action request is not accepted and an INSERT return code is set for the request.
User response: This is an internal processing error. Contact IBM Software Support and provide the message. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1801S  SERVICE CHECKPOINT DATASET
OPEN ERROR RETURN CODE [return_code] REASON CODE [reason_code].
Explanation: The request to open the service checkpoint data set failed.
System action: The service probes terminate.
User response: Refer to previously issued messages associated with possible open or dynamic data set allocation errors. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1802W  SERVICE CHECKPOINT DATASET OWNERSHIP RELEASE ERROR.
Explanation: A request to release the service checkpoint data set ownership failed.
System action: The service probes continue execution. This error should not have any significant impact on the service probes.
User response: The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1811S  SERVICE CHECKPOINT DATASET
OWNERSHIP ACQUIRE FAILED. DSN=[dsn].
Explanation: The service probes claimed ownership of the service checkpoint data set but the request failed. This message indicates another Tivoli Enterprise Monitoring Server address space, perhaps on another system in a shared DASD environment, owns the service checkpoint data set, thus preventing this address space from having exclusive control.
System action: The service probes terminate.
User response: Identify the other Tivoli Enterprise Monitoring Server address space that owns the checkpoint data set specified in the KDFACTIN runtime parameter member. Ensure that no two Tivoli Enterprise Monitoring Server address spaces use the same checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1812W  SERVICE CHECKPOINT DATASET CLOSE ERROR INVALID HANDLE
Explanation: The request to close the service checkpoint data set failed.
System action: The service probes continue execution. The most likely cause of this error is a failure to open the checkpoint data set. This error should not have any significant impact on the service probes.
User response: Refer to previously issued messages associated with possible open or dynamic data set allocation errors. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1821E  SERVICE CHECKPOINT DATASET
[reqtype] REQUEST ERROR INVALID HANDLE
Explanation: A service checkpoint data set request failed because an invalid buffer was used. This message indicates that an internal error has occurred.
System action: Unpredictable, as the system action is dependent upon the action that failed.
User response: This message indicates that an internal error has occurred. Contact IBM Software Support and provide the message contents. The
KDFAP1822E  •  KDFAP2020E

destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1822E  SERVICE CHECKPOINT DATASET
[reqtype] REQUEST ERROR VSAM
RETURN CODE [return code] VSAM
REASON CODE [reason code]

Explanation:  A service checkpoint data set request failed. VSAM provided a return code and a reason code.

System action:  Unpredictable, as the system action is dependent upon the action that failed.

User response:  Investigate the cause of the error. The return code and reason code are from the VSAM request and are documented in MVS/DFP Macro Instructions for Data Sets. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1823E  SERVICE CHECKPOINT DATASET
[reqtype] REQUEST ERROR BUFFER TOO SMALL

Explanation:  The request to get a service checkpoint data set record failed because the buffer provided to receive the record was too small. This is an internal logic error.

System action:  Unpredictable, as the system action is dependent upon the type of record being read. The service probes continue processing, if possible. Other messages issued with this message can provide further details.

User response:  This message indicates that an internal error has occurred. Contact IBM Software Support and provide the message. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1824E  SERVICE CHECKPOINT DATASET
[reqtype] REQUEST ERROR RETURN CODE [rc] NOT RECOGNIZED

Explanation:  An I/O request to the service checkpoint data set failed. This is an internal logic error.

System action:  Unpredictable, as the system action is dependent upon the type of record being read. The service probes continue processing, if possible. Other messages issued with this message can provide further details.

User response:  This message indicates that an internal error has occurred. Contact IBM Software Support and provide the message. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP1830E  SERVICE CHECKPOINT DATASET
STORAGE EXHAUSTED. PUT REQUEST ERROR. VSAM RETURN
CODE [return code] VSAM REASON CODE [reason code]

Explanation:  A PUT I/O request to the service checkpoint data set failed. A secondary allocation cannot be acquired for the checkpoint data set and no free storage can be found in the VSAM cluster.

System action:  The service probes continue processing, if possible. Other messages issued with this message can provide further details.

User response:  Ensure that the OMEGAMON II checkpoint data set has not been overwritten and free space has not been exhausted. If the checkpoint data set is damaged, the data set can be restored to its original state from a data set backup of the VSAM cluster, or it can be deleted and recreated. Restoration can cause the loss of service requests that were checkpointed after the backup was taken. This problem can also be caused by the unlikely event that a large number of service requests have been issued and never deleted. If a large number of unwanted service requests are retained in the checkpoint data set, issue delete requests to allow storage in the checkpoint data set to be reused. The TSO LISTC command, the IDCAMS LISTC command, or OMEGAMON II can be used to review the checkpoint data set disk utilization. If more storage is required, the checkpoint data set should be reallocated using larger primary and secondary allocation parameters. Contact IBM Software Support for further assistance. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFAP2010E  SHOWCB
FIELDS=(ACBLEN,RPLLEN), ERROR:
R15([return_code]) R0([reason_code])

Explanation:  An attempt to determine the length of a VSAM access control block and a request parameter list failed. The SHOWCB is issued to recover from a previously detected VSAM OPEN failure.

System action:  Open processing fails, and service probes initialization completes unsuccessfully.

User response:  Ensure that the VSAM KSDS has been properly created for the services checkpoint data set of IBM Tivoli OMEGAMON XE for Storage on z/OS.

KDFAP2020E  GENCB BLK=ACB ERROR:
R15([return_code]) R0([reason_code])

Explanation:  An attempt to create and initialize a VSAM access control block has failed. The GENCB is issued to recover from a previously detected VSAM OPEN failure.

System action:  Open processing fails, and service probes initialization completes unsuccessfully.
Ensure that the VSAM KSDS has been properly created for the services checkpoint data set of IBM Tivoli OMEGAMON XE for Storage on z/OS.

KDFAP2030E GENCB BLK=RPL ERROR:
R15([return_code]) R0([reason_code])

Explanation: An attempt to create and initialize a VSAM access control block has failed. The GENCB is issued to recover from a previously detected VSAM OPEN failure.

System action: Open processing fails, and service probes initialization completes unsuccessfully.

User response: Ensure that the VSAM KSDS has been properly created for the services checkpoint data set of IBM Tivoli OMEGAMON XE for Storage on z/OS.

KDFAP2040E UNABLE TO OPEN
DDNAME([ddname]) R15([return_code]) ACKERFLG(err_code))

Explanation: An attempt to reopen a VSAM data set for load processing has failed. The OPEN is issued to recover from a previously detected VSAM OPEN failure.

System action: Open processing fails, and service probes initialization completes unsuccessfully.

User response: Ensure that the VSAM KSDS has been properly created for the services checkpoint data set of IBM Tivoli OMEGAMON XE for Storage on z/OS.

KDFAP2050E UNABLE TO INITIALIZE
DDNAME([ddname]) R15([return_code]) RPLERRCD(err_code))

Explanation: An attempt to load a new record into a VSAM data set for load processing has failed. A PUT is issued to initialize the contents of a VSAM data set that previously failed to OPEN.

System action: Open processing fails, and service probes initialization completes unsuccessfully.

User response: Ensure that the VSAM KSDS has been properly created for the services checkpoint data set of IBM Tivoli OMEGAMON XE for Storage on z/OS.

KDFAP2060E UNABLE TO CLOSE
DDNAME([ddname]) R15([return_code]) ACKERFLG(err_code))

Explanation: An attempt to close a VSAM data set for load processing has failed. The CLOSE is issued to initialize the contents of a VSAM data set that previously failed to OPEN.

System action: Open processing fails, and service probes initialization completes unsuccessfully.

User response: Ensure that the VSAM KSDS has been properly created for the services checkpoint data set of IBM Tivoli OMEGAMON XE for Storage on z/OS.

KDFAP3000E MUST BE RUN FROM AN APF AUTHORIZED LIBRARY, TERMINATING...

Explanation: The DFDSS Slave Address Space load module KDFSRACT detected that it was not running authorized.

System action: The DFDSS request is terminated.

User response: Verify that module KDFSRACT is in the Tivoli Enterprise Monitoring Server RKANMOD load library concatenation and that both the module and the load library are marked APF authorized. Also ensure that there are no non-APF authorized libraries in the concatenation. If the module is available, executable and authorized, contact IBM Software Support.

KDFAP3006E SLAVE ADDRESS SPACE POSSIBLE JCL ERROR

Explanation: The DFDSS slave address space ended without returning a condition code.

System action: The DFDSS master task and the DFDSS request are terminated.

User response: A JCL error might have occurred in the DFDSS Slave Address Space JCL. Check for any SYSLOG messages or for a dump in the DFDSS slave address space. Examine the DFDSS Slave Address Space JCL proc to ensure it is correct.

KDFAP3007E TIMED OUT WAITING FOR SLAVE A.S. INITIALIZATION

Explanation: The SLAVESTCTIMEOUT value was exceeded before DFDSS slave address space initialization completed.

System action: The DFDSS master task terminates.

User response: Contact IBM Software Support.

KDFAP3008E ERROR OCCURRED IN SLAVE A.S., CHECK FOR POSSIBLE DUMP

Explanation: The DFDSS slave address space returned a non-zero condition code to the master address space.

System action: The DFDSS master task terminates.

User response: Contact IBM Software Support.

KDFAP3009E ERROR DURING ENQUE, CODE= [code], TERMINATING

Explanation: An error occurred during an enqueue. The condition code from the error is included.

System action: The DFDSS master task terminates.
KDFAP3010E  •  KDFAP3032E

User response: Contact IBM Software Support.

KDFAP3010E  ERROR DURING DEQUE, CODE= [code], TERMINATING
Explanation: An error occurred during a dequeue. The condition code from the error is included.
System action: The DFDSS master task terminates.
User response: Contact IBM Software Support.

KDFAP3012E  ERROR INITIATING DFSS STC, RC= rcrc, REASON= reason
Explanation: An error occurred starting the DFSS slave address space. The ASCRE macro provides the rcrc and reason values.
System action: The DFDSS master task terminates.
User response: Contact IBM Software Support.

KDFAP3013E  ERROR DURING SLAVE A.S. INITIALIZATION, RETURN CODE= rcrc
Explanation: During initialization, the DFSS slave address space returned a non-zero condition code to the master address space.
System action: The DFDSS master task terminates.
User response: Contact IBM Software Support.

KDFAP3014E  ERROR ENCOUNTERED IN IKJTSOEV, RETURN CODE= rcrc, REASON CODE= reason
Explanation: A non-zero code was returned from the TSQ/E environmental initialization.
System action: The DFSS slave and master tasks terminate.
User response: Contact IBM Software Support.

KDFAP3015E  LOAD FAILED FOR MODULE IKJTSOEV, RETURN CODE= rcrc, REASON CODE= reason
Explanation: A non-zero code was returned from LOAD while attempting to load the module.
System action: The DFSS slave and master tasks terminate.
User response: Contact IBM Software Support.

KDFAP3016E  ERROR OBTAINING SLAVE A.S. ENQ, RETURN CODE= rcrc, TERMINATING
Explanation: A non-zero code was returned while attempting to obtain an ENQUE.
System action: The DFSS slave and master tasks terminate.
User response: Contact IBM Software Support.

KDFAP3017E  ERROR DURING VSAM OPERATION ON ACTION RESPONSE CHECKPOINT DATA, ERROR CODE= eeee
Explanation: The DFSS slave address space attempted to open, read, update, or close the Response Checkpoint Dataset. VSAM returned a non-zero condition code. Additional action messages indicate the exact operation. One of the following messages follows this message: KDFAP3035E, KDFAP3036E, KDFAP3037E, or KDFAP3038E.
System action: The DFSS slave and master tasks terminate.
User response: Check the DFSS slave address space for additional messages.

KDFAP3018E  LOAD FAILED FOR MODULE IKJTSOEV, RETURN CODE= rcrc, REASON CODE= reason
Explanation: A non-zero code was returned from LOAD while attempting to load the module.
System action: The DFSS slave and master tasks terminate.
User response: Contact IBM Software Support.

KDFAP3030E  ERROR ALLOCATING ACTION RESPONSE DATASET, TERMINATING
Explanation: An error was encountered dynamically allocating the action response data set. Message KDFAP3016E should precede this message and provide the exact error and resolution.
System action: The DFSS slave and master tasks terminate.
User response: Contact IBM Software Support.

KDFAP3032E  ERROR OBTAINING CMS ENQ, TERMINATING
Explanation: A non-zero code was returned while attempting to obtain an ENQUE.
System action: The DFSS slave and master tasks terminate.
Contact IBM Software Support.

KDFAP3033E  ERROR DURING ATTACH OF KDFIRACT, RETURN CODE= rcrc, TERMINATING
Explanation:  A non-zero code was returned from ATTACH while attempting to run the request REXX exec.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.

KDFAP3034E  ERROR ALLOCATING ACTION RESPONSE CHECKPOINT DATASET, TERMINATING
Explanation:  An error was encountered dynamically allocating the action response checkpoint data set. Message KDFAP3016E should precede this message and provide the exact error and information codes for resolution.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.

KDFAP3035E  ERROR OPENING ACTION RESPONSE CHECKPOINT DATASET, TERMINATING
Explanation:  An error was encountered opening the action response checkpoint data set. Message KDFAP3017E should precede this message and provide the exact error and information codes for resolution. The DFDSS slave and master tasks terminate.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.

KDFAP3036E  ERROR READING ACTION RESPONSE CHECKPOINT DATASET, TERMINATING
Explanation:  An error was encountered reading the action response checkpoint data set. Message KDFAP3017E should precede this message and provide the exact error and information codes for resolution.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.

KDFAP3037E  ERROR UPDATING ACTION RESPONSE CHECKPOINT DATASET, TERMINATING
Explanation:  An error was encountered updating the action response checkpoint data set. Message KDFAP3017E should precede this message and provide the exact error and information codes for resolution.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.

KDFAP3038E  ERROR CLOSING ACTION RESPONSE CHECKPOINT DATASET, TERMINATING
Explanation:  An error was encountered closing the action response checkpoint data set. Message KDFAP3017E should precede this message and provide the exact error and information codes for resolution.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.

KDFAP3039E  KDFSRACT POST EXIT CALLED...
Explanation:  An error was encountered attempting to post the Tivoli Enterprise Monitoring Server during DFDSS address space initialization.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.

KDFAP3040E  ERROR RETRIEVING PARMS, RC= rcrc, REASON= reason
Explanation:  A non-zero return code was received from ASEXT while attempting to move from the DFDSS master address space to the slave address space.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.

KDFAP3041E  DFDSS SLAVE ADDRESS SPACE STARTED WITH INVALID JOB PARMS= [invalid_job_parms]
Explanation:  Parameters that are not valid were specified on the EXEC statement in the slave address started task JCL.
System action:  The DFDSS slave and master tasks terminate.
User response:  Contact IBM Software Support.
KDFAP3048E • KDFAUT00

KDFAP3048E  TIMEOUT WAITING FOR CHECKPOINT DATASET LOCK

Explanation: This message indicates that an internal error has occurred. The lock for the checkpoint data set could not be obtained.

System action: IBM Tivoli OMEGAMON XE for Storage on z/OS continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support.

KDFAP3049E  TIVOLI ENTERPRISE SERVER NOT ACTIVE, TERMINATING

Explanation: The DFDSS address space was unable to communicate with the Tivoli Enterprise Monitoring Server because it had terminated.

System action: The DFDSS slave and master tasks terminate.

User response: This message might be accompanied by a 0Dx ABEND and possibly a system dump. Appearance of this message does not necessarily indicate a problem, just that there was a DFDSS service request active when the Tivoli Enterprise Monitoring Server terminated, either abnormally or via operator action.

KDFAP9999E  C$STIMER ROUTINE FAILED EYE-CATCHER TEST

Explanation: This message indicates that an internal error has occurred. The work area used during DFDSS slave address space initialization failed validity checking.

System action: DFDSS slave address space initialization is terminated.

User response: Contact IBM Software Support.

KDFAPP01  USER [user_id] HAS LOGGED ON

Explanation: Logon processing for the specified user was completed. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: None.

User response: None. This message is informational.

KDFAPP02  USER [user_id] HAS LOGGED OFF

Explanation: The specified user has logged off. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: None.

User response: None. This message is informational.

KDFAPP03  DEBUG MESSAGES ARE SUPPRESSED

Explanation: The generation of internal diagnostic messages was suppressed. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: None.

User response: None. This message is informational.

KDFAPP04  FORM LOADS WILL BE FORCED

Explanation: This message displays during a diagnostic routine. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: Product panels are reinitialized each time that they are executed by the product.

User response: None. This message is informational.

KDFAPP05  AUTHORIZATION FAILURE FOR PANEL [panel_id], USER IS [user_id]

Explanation: A user tried to access a panel or product function, but lacked authorization. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

System action: The user is not granted access to the panel or function.

User response: None. This message is informational.

KDFAPT33  OMEGAMON II FOR SMS IS UNABLE TO CONNECT TO CT/DS

Explanation: The OMEGAMON II for SMS address space is unable to communicate with the Tivoli Enterprise Monitoring Server address space.

System action: None.

User response: Contact IBM Software Support.

KDFAUT00  - SUPER USER HAS LOGGED ON

Explanation: The special user ID CANSUPER was used to gain access to the product.

System action: The user logging on with the CANSUPER ID gains access to all product functions.

User response: None. This message is informational. See the OMEGAMON II for SMS User’s Guide for more information about CANSUPER. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

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KDFAUT01 ATTEMPT TO LOGON AS SUPER USER FAILED

Explanation: An attempt was made to log onto the product using the special administrative logon ID CANSUPER. An incorrect password was specified.

System action: Access to the product is not granted.

User response: Repeat the logon procedure, specifying the correct password. If you do not have the correct password, contact your product administrator.

The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
Chapter 10. KDFC Messages

This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have the KDFC prefix.

**KDFC101E** KDFLCONS CANNOT GET WORKG STORAGE

**Explanation:** An attempt to allocate Engine storage for the KDFLCONS probe has failed.

**System action:** Console support in the OM II interface of Tivoli OMEGAMON XE for Storage is not available.

**User response:** Contact IBM Software Support.

**KDFC102E** KDFLCONS PUT_PARM FAILURE FOR WORKG

**Explanation:** An internal error occurred in KDFLCONS.

**System action:** Console support in the OM II interface of Tivoli OMEGAMON XE for Storage is not available.

**User response:** Contact IBM Software Support.

**KDFC103E** KDFLCONS UNABLE TO ACQUIRE SM2 VECTOR ADDRESS

**Explanation:** An internal error occurred in KDFLCONS.

**System action:** Console support in the OM II interface of Tivoli OMEGAMON XE for Storage is not available.

**User response:** Contact IBM Software Support.

**KDFC104E** KDFLCONS UNABLE TO ACQUIRE CONSOLE WORK AREA ADDRESS

**Explanation:** An internal error occurred in KDFLCONS.

**System action:** Console support in the OM II interface of Tivoli OMEGAMON XE for Storage is not available.

**User response:** Contact IBM Software Support.

**KDFC105E** KDFLCONS PUT PARM FOR JVAL FAILED

**Explanation:** An internal error occurred in KDFLCONS.

**System action:** Console support in the OM II interface of Tivoli OMEGAMON XE for Storage is not available.

**User response:** Contact IBM Software Support.

**KDFC180I** [list of values]

**Explanation:** Gives status about OMEGAMON II console services function. The valid values are as follows:

- **KDFCONS - CONSOLE SERVICES INITIALIZING**
- **KDFCONS - CONSOLE xxxxxxxx ACTIVATED**
- **KDFCONS - CONSOLE COLLECTOR SHUTTING DOWN**

The value xxxxxxxx is the extended console name. The default name is XESTGCNS. An alternate name might be specified in RKANPARU member in KDFDCNSI.

**System action:** Informational only.

**User response:** None required.

**KDFC180W** KDFCONS - OMEGAMON II CONSOLE SUPPORT NOT AVAILABLE

**Explanation:** An error occurred during console support initialization. Look for an accompanying message describing that error.

**System action:** Console support is not available in the OM II interface to the Tivoli OMEGAMON XE for Storage product.

**User response:** As indicated in the accompanying message.

**KDFC181E** KDFCONS - NO CONSOLE WORK AREA; TERMINATING

**Explanation:** The console work area normally allocated in KDFDEVIN was not found.

**System action:** Console support is not available in the OM II interface to the Tivoli OMEGAMON XE for Storage product.

**User response:** Contact IBM Software Support.

**KDFC182E** KDFCONS - MCSOPER ERROR RC=(nn REASON=(nn

**Explanation:** An internal error occurred while attempting to activate the extended MCS console.

**System action:** Console support in the OM II interface of Tivoli OMEGAMON XE for Storage is not available.

**User response:** Contact IBM Software Support.

**KDFC183E** KDFCONS - UNABLE TO OBTAIN STORAGE FOR CONSOLE BUFFER RC=nn

**Explanation:** An attempt to allocate Engine storage for the console buffer failed. The return code from $GMEM is nn.
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System action: Console support is not available in the OM II interface to the Tivoli OMEGAMON XE for Storage product.

User response: Contact IBM Software Support.

KDFC184W KDFDCONS - ERROR RETRIEVING CONSOLE MESSAGES, RC=xx, RSN=yy

Explanation: An error occurred in the call to MCSOPMSG. The return code and reason code are indicated in xx and yy, respectively.

System action: The message retrieval is retried 5 times. If the failure occurs five times in a row, console support is terminated in the OM II interface to the Tivoli OMEGAMON XE for Storage product.

User response: If console support is terminated, contact IBM Software Support.

KDFC185I KDFDCNSI INPUT PARMS: ...

Explanation: Displays the contents of RKANPAR member KDFDCNSI.

System action: Informational only.

User response: None required.

KDFC186W KDFDCNSI CONSNAME PARAMETER TOO LONG - DEFAULTING TO XESTGCNS

Explanation: The value of CONSNAME specified in RKANPAR member KDFDCNSI is greater than eight characters in length.

System action: Console support in the OM II interface of the Tivoli OMEGAMON XE for Storage product is started using the default console name of XESTGCNS.

User response: If you want to specify another name for the console, modify the CONSNAME parameter in RKANPAR to a name containing no more than eight characters.

KDFC187W KDFDCNSI - STARTREQ FAILED

Explanation: An error occurred trying to open the RKANPAR data set.

System action: Console support in the OM II interface of the Tivoli OMEGAMON XE for Storage product is started using the default console name of XESTGCNS.

User response: Verify the integrity of the RKANPAR data set.

KDFC188W KDFDCNSI - FIND FAILED

Explanation: Member KDFDCNSI was not found in the RKANPAR (or RKANPARU data set).

System action: Console support in the OM II interface of the Tivoli OMEGAMON XE for Storage product is started using the default console name of XESTGCNS.

User response: Member KDFDCNSI is only required if you want to specify a console name other than the default (XESTGCNS). If you want to specify your own name, add member KDFDCNSI to RKANPARU and include a line specifying: CONSNAME=xxxxxxx

KDFC189W KDFDCNSI - GET FAILED

Explanation: An error occurred while trying to read the parameters from the RKANPARU member KDFDCNSI.

System action: Console support in the OM II interface of the Tivoli OMEGAMON XE for Storage product is started using the default console name of XESTGCNS.

User response: Verify the integrity of the RKANPAR data set.

KDFC190I KDFDCNSI - CONSOLE NAME xxxxxxx WILL BE USED

Explanation: An informational message to indicate the name that is used to identify the extended MCS console that was activated by the Tivoli OMEGAMON XE for Storage console message collector.

System action: Informational only.

User response: None required.

KDFC191E KDFDCONS NO COMMAND (IN COMMAND COLUMN FOUND

Explanation: An attempt to run a z/OS console command from the OM II interface of the Tivoli OMEGAMON XE for Storage product failed because no command was found by KDFICONS in the incoming SQL.

System action: No command is sent to the z/OS console.

User response: If this problem persists, contact IBM Software Support.

KDFC192E KDFICONS GET PARM FOR INSERT COLUMN NAME FAILED

Explanation: An internal error occurred while trying to process a z/OS command from the OM II interface of the Tivoli OMEGAMON XE for Storage.

System action: The command is ignored.

User response: This error might arise because the
user that is logged on does not have authority to issue commands to the MVS console or might not have authority to issue the requested command. If this is not the case, contact IBM Software Support.

KDFC193E  KDFICONS PRODUCE VALUE FOR INSERT VALUE FAILED

**Explanation:** An internal error occurred while trying to process a z/OS command from the OM II interface of Tivoli OMEGAMON XE for Storage.

**System action:** No command is sent to the z/OS console.

**User response:** Contact IBM Software Support.

KDFC194W  KDFDCNSI - KLVSCnnn 

**Explanation:** An error occurred while parsing the input parameters supplied in RKANPAR (or RKANPARU) member KDFDCNSI. The KLVSCnnn message is the message generated by the $SCAN message parser of the engine.

**System action:** The parameter is ignored and the default (if any) is taken.

**User response:** If you are having difficulty getting the system to accept parameters that you believe are valid, contact IBM Software Support.
Chapter 11. KDFD Messages

This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have the KDFD prefix.

KDFD001I KDFDEVIN INPUT PARMS:
   [parameters]

Explanation: This message displays the input parameters for data collection that are specified in the KDFDEVIN member of a data set pointed to by the RKANPAR DD statement for the Tivoli Enterprise Monitoring Server address space.

System action: None.

User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD002W KDFDEVIN: SMFDINTV VALUE=OFF;
   SMF DEVICE RECORDING DISABLED

Explanation: The KDFDEVIN member of a data set pointed to by the RKANPAR DD statement for the Tivoli Enterprise Monitoring Server address space contains the parameter SMFDINTV(OFF).

System action: SMF recording is disabled within the Tivoli Enterprise Monitoring Server.

User response: None. This message is informational. To enable SMF recording within the Tivoli Enterprise Monitoring Server, specify a valid recording interval for the SMFDINTV parameter and a valid SMF user record number for the SMFRECN parameter. The SMFDINTV parameter accepts the following values:

RMFSYNC
   Synchronizes with the RMF interval.
SMFSYNC
   Synchronizes with the SMF interval.
1-1439
   Specifies the recording interval in minutes.

Specify a user record number from 128 to 255 for the SMFRECN parameter. Restart the Tivoli Enterprise Monitoring Server address space. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD004W KDFDEVIN: INVALID SMF RECORD ID;
   SMF DEVICE RECORDING DISABLED

Explanation: The KDFDEVIN member of a data set pointed to by the RKANPAR DD statement for the Tivoli Enterprise Monitoring Server address space contains an invalid SMF user record number on the SMFRECN parameter.

System action: SMF recording is disabled within the Tivoli Enterprise Monitoring Server.

User response: None. This message is informational. To enable SMF recording within the Tivoli Enterprise Monitoring Server, make sure that a valid SMF user record number (128-255) has been specified on the SMFRECN parameter. Then, restart the Tivoli Enterprise Monitoring Server address space. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD005E KDFDEVIN: APF AUTHORIZATION REQUIRED FOR DATA COLLECT

Explanation: All load libraries specified in the STEPLIB DD statement of the Tivoli Enterprise Monitoring Server address space are not APF authorized.

System action: The initialization of the Tivoli Enterprise Monitoring Server terminates.

User response: Make sure that all the Tivoli Enterprise Monitoring Server load libraries are APF-authorized prior to restarting the Tivoli Enterprise Monitoring Server address space. The destination is the
KDFD006I  KDFD013E

Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD006I  KDFDRMFL RETURNING: [rmf_level]
Explanation: The internal representation (in hexadecimal characters) of the RMF level currently running on the MVS system under which the Tivoli Enterprise Monitoring Server is running was displayed.
System action: None.
User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD007I  KDFDSMF: SMF DEVICE RECORDING STARTED
Explanation: SMF DASD interval recording was started within the Tivoli Enterprise Monitoring Server address space.
System action: None.
User response: This is an informational message only. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD008I  KDFDSMF: SMF DEVICE RECORDING COMPLETED
Explanation: SMF DASD interval recording was completed in the Tivoli Enterprise Monitoring Server address space.
System action: None.
User response: This is an informational message only. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD009I  KDFDSMF: RMF INTERVAL= [n] HSECS
ELAPSED= [n] HSECS REMAINING= [n] HSECS
Explanation: SMF DASD interval recording is being synchronized with RMF interval recording within the Tivoli Enterprise Monitoring Server. The RMF interval length, elapsed time within the current RMF interval, and time remaining within the current interval are displayed in hundredths of a second (HSECS).
System action: None.
User response: This is an informational message only. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD010I  KDFDSMF: SMF RECORDING INTERVAL FOR STC SUB-SYSTEM= n HSECS
Explanation: SMF DASD interval recording was being done at the same interval as the STC subsystem under SMF. The STC subsystem recording interval within SMF is displayed in hundredths of a second (HSECS).
System action: None.
User response: This is an informational message only. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD011I  KDFDSMF: RECORDING INTERVAL DEFAULTING TO 15 MINUTES
Explanation: SMF DASD interval recording is being done every 15 minutes within the Tivoli Enterprise Monitoring Server address space.
System action: None.
User response: This is an informational message only. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD012E  KDFDEVIN: ALLOCATION FAILED FOR [work_area] SIZE=[bytes]
Explanation: Data collection initialization failed during allocation of the required work area name indicated in the message. The size (in bytes) required for the work area is also displayed.
System action: The initialization of Tivoli Enterprise Monitoring Server terminates.
User response: Change the LIMIT parameter depending on the number of devices defined to your system. The LIMIT value is expressed as a power of 2, thus LIMIT (22,x) specifies 4 meg, LIMIT (23,x) specifies 8 meg, and so on. Each device table entry is 320 bytes, so LIMIT (23,x) allows allocation of a device table large enough to accommodate about 26,000 devices. LIMIT (24,x) accommodates twice that many. If the error still occurs, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD013E  KDFDEVIN: LOAD FAILED FOR KDFD[cccc]
Explanation: Data collection initialization failed while attempting to load the module indicated.
System action: The initialization of the Tivoli Enterprise Monitoring Server terminates.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFD013E  KDFDEVIN: ALLOCATION FAILED FOR $CNSWRK; SIZE=nnn

Explanation: An error occurred while attempting to allocate nnn bytes of engine storage for the console work area.

System action: Console support in the OM II interface of Tivoli OMEGAMON XE for Storage is not available.

User response: Contact IBMSoftware Support.

Note: There are multiple instances of this message ID number.

KDFD013W [module_name] LOAD FAILED FOR [loaded_module_name] - [result]

Explanation: An attempt to load [loaded_module_name] failed. The effect of this load failure on processing indicated by [result].

System action: Processing continues or terminates according to the information contained in [result].

User response: Verify that [loaded_module_name] is in the Tivoli Enterprise Monitoring Server RKANMODL load library concatenation and is executable. If it is available and executable, contact IBM Software Support.

KDFD014E  KDFDEVIN: NODATA PARM - DATA COLLECTION BYPASSED

Explanation: Member KDFDEVIN of the data set pointed to by the RKANPAR DD statement for the Tivoli Enterprise Monitoring Server address space was empty or not present.

System action: Data collection for OMEGAMON II is suppressed, but Tivoli Enterprise Monitoring Server initialization continues.

User response: Verify that the KDFDEVIN member exists or is not empty. See the IBM OMEGAMON II for SMS Program Directory for information about creating a valid KDFDEVIN member. Then, restart the Tivoli Enterprise Monitoring Server address space with the corrected KDFDEVIN member of the data set pointed to by the RKANPAR DD statement. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD015I  KDFDSCIN INPUT PARMS: [parameters]

Explanation: The input parameters for data set collection specified in the KDFDSCIN member of the RKANPAR DD statement for the Tivoli Enterprise Monitoring Server address space are displayed.

System action: None.

User response: This is an informational message only. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD016W  KDFDSCIN: PARM ERRORS DETECTED; DEVICES WILL BE SKIPPED

Explanation: At least one hex device number is not valid in the input parameters for data set collection specified in the KDFDSCIN member of the data set pointed to by the RKANPAR DD statement for the Tivoli Enterprise Monitoring Server address space.

System action: The device or device range with the invalid number is ignored and data set collection does not occur for the devices.

User response: Correct the device (DEVICES) or device range (DEVRANGE) parameters in the KDFDSCIN member, then restart the Tivoli Enterprise Monitoring Server address space. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD017I  KDFDSCIN: DATASET COLLECTOR INITIALIZED; RC= [ return_code]

Explanation: The data set collector has been successfully initialized; the initialization return code is displayed. Valid return codes are zero (0) and 4.

User response: None. This is an informational message only. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD018I  KDFDSCIN: DEVICES STARTED FOR COLLECTION; [container ] SUCCESSFUL COUNT=[nnn]; FAILURE COUNT=[ nnn]

Explanation: The data set collector has started collecting for devices as specified in the KDFDSCIN parameter member of the data set pointed to by the RKANPAR DD statement. The number of devices for which collection was successfully started is given, as well as the number for which it failed.

System action: None.

User response: If the failure count is not zero (0), make sure that all devices specified on the VOLSERS, DEVICES, and DEVRANGE parameters in the KDFDSCIN member are valid devices for the system on which the Tivoli Enterprise Monitoring Server is active. If changes are made, restart the Tivoli Enterprise Monitoring Server address space. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFD019W  KDFDSCIN: NO DEVICES SPECIFIED FOR COLLECTION

Explanation: No devices were specified in the KDFDSCIN parameter member of the data set pointed to by the RKANPAR DD statement for data set collection.

System action: No devices are specified for data set collection.

User response: If data set collection is desired, specify devices using the VOLSERS, DEVICES, and DEVRANGE parameters in the KDFDSCIN member. Then restart the Tivoli Enterprise Monitoring Server address space. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD020E  KDFDSCIN: CANDLE SUBSYSTEM INITIALIZATION FAILED; RC= [return_code]

Explanation: The Tivoli Enterprise Monitoring Server initialization call to the subsystem required for data set collection failed with the return code displayed.

System action: Data set collection does not occur.

User response: Make sure that the subsystem module KCNDLI is available to the Tivoli Enterprise Monitoring Server address space, then restart the Tivoli Enterprise Monitoring Server. Otherwise, record the return code and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD021E  KDFDSCIN: DATASET COLLECTOR INITIALIZATION FAILED; SSRQ RC= [return_code] INIT RC= [return_code]

Explanation: The Tivoli Enterprise Monitoring Server initialization call to the data set collector failed with the given return codes.

System action: Data set collection does not occur.

User response: Make sure that the subsystem address space has been started. Because a retry to initialize is automatically attempted when data set collector data is requested, a restart of the Tivoli Enterprise Monitoring Server address space should not be necessary. Otherwise, record the two return codes and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD022E  KDFDSCIN: DATASET COLLECTOR DEVICE FAILED; SSRQ RC= [return_code] RC= [return_code]

Explanation: Data set collection was not successfully started for any devices specified in the KDFDSCIN member of the data set pointed to by the RKANPAR DD statement. The return codes are displayed.

System action: Data set collection does not occur.

User response: Make sure that the devices specified on the VOLSERS, DEVICES, and DEVRANGE parameters in the KDFDSCIN member are valid devices for the system on which the Tivoli Enterprise Monitoring Server is active, then restart the Tivoli Enterprise Monitoring Server address space. Otherwise, record the two return codes and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD023E  KDFDSCIN: ALLOCATION FAILED FOR START LISTS; SIZE= [bytes]

Explanation: Data set collection initialization failed during allocation of the required area for device lists. The number of bytes required for the area is given in the message.

System action: Data set collection does not occur.

User response: Restart the Tivoli Enterprise Monitoring Server address space with a larger region size. If the error still occurs, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD024W  KDFDSCIN: DATASET COLLECTION PREVIOUSLY DISABLED; RETRY NOT ATTEMPTED

Explanation: Due to an incoming request to the Tivoli Enterprise Monitoring Server for data, data set collector initialization has been retried after an unsuccessful attempt during the Tivoli Enterprise Monitoring Server initialization. However, a prior attempt to initialize data set collection encountered a problem which caused data set collection to be completely disabled.

System action: Data set collection does not occur.

User response: Find previous messages in the RKLVLOG from the KDFDSCIN module to identify the original reason for data set collection being disabled and follow advice for the messages.

KDFD025I  KDFDSCIN: DATASET COLLECTION DISABLED; NO KDFDSCIN PARM MEMBER

Explanation: Data set collection has been disabled because the KDFDSCIN parameter member of the data set pointed to by the RKANPAR DD statement was not found. The lack of the KDFDSCIN member is the normal way to disabling data set collection.

System action: Data set collection does not occur.

User response: This is an informational message only. If data set collection is desired, specify devices using the VOLSERS, DEVICES, and DEVRANGE parameters in the KDFDSCIN member, then restart the Tivoli Enterprise Monitoring Server address space. The
destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD026E  KDFDSCIN: PARM MEMBER NOT FOUND IN PDS IN SECOND PASS; RC= [ return_code]

Explanation: Data set collection initialization failed during the second pass of parsing the KDFDSCIN member of the data set pointed to by the RKANPAR DD statement. The member is no longer available, even though it was available during the first pass of parsing.

System action: Data set collection does not occur.

User response: Correct the problem with the KDFDSCIN member, then restart the Tivoli Enterprise Monitoring Server address space. If the error still occurs, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD027I  KDFDTERM: DATASET COLLECTION STOPPED; container SUCCESSFUL COUNT=[nnn]; FAILURE COUNT=[nnn]

Explanation: During termination of the Tivoli Enterprise Monitoring Server address space, the data set collector has stopped collecting for devices. The number of devices for which collection was successfully stopped is given, as well as the number for which it failed. A failure to stop collecting for some devices can be normal because they were not started during the Tivoli Enterprise Monitoring Server initialization.

System action: None.

User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD028I  KDFDTERM: DATASET COLLECTOR TERM NOT DONE; container [ reason]

Explanation: During termination of the Tivoli Enterprise Monitoring Server address space, the data set collector did not require termination for the reason specified.

System action: None.

User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD029E  KDFDTERM: DATASET COLLECTOR STOP DEVICE FAILED; container SSRQ RC=[return_code] STOP RC=[return_code]

Explanation: During termination of the Tivoli Enterprise Monitoring Server address space, the data set collector failed to stop collecting for devices specified in the KDFDSCIN member of the data set pointed to by the RKANPAR DD statement.

System action: Data set collection can continue for devices even though the Tivoli Enterprise Monitoring Server address space is not active.

User response: If you no longer want data set collection for devices, and previous messages issued during the Tivoli Enterprise Monitoring Server initialization indicate that it was successfully started, stop the subsystem address space, when convenient. If the data set collector is left operating, you can experience some overhead degradation. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD030I  KDFDCISS: SCACHENV INITIALIZED SUCCESSFULLY

Explanation: The cache collection environment has been successfully initialized.

System action: None.

User response: None. This message is informational.

KDFD031E  KDFDCISS: ERROR IN SCACHENV INITIALIZE; container RC= [ return_code] REASON= [reason_code]

Explanation: The cache collection environment failed to initialize for the return and reason codes displayed.

System action: DASD and control unit cache data collection does not occur.

User response: Record the return code and reason code and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD032E  KDFDCISS: LOAD ERROR DURING SCACHENV INITIALIZE

Explanation: The cache collection environment failed because of an error during an attempt to load the module KCCCOLL.

System action: DASD and control unit cache data collection does not occur.

User response: Make sure that the module KCCCOLL is available to the Tivoli Enterprise Monitoring Server address space, then restart the Tivoli Enterprise Monitoring Server. Otherwise, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFD033W • KDFD039W

KDFD033W  KDFDCISS: ERROR IN $CACHRTR INITIAL CUSCAN; RC=[ return_code] REASON=[reason_code]

Explanation: An error occurred in initializing cache control unit information; the return and reason codes are displayed.

System action: Control unit cache data collection does not occur.

User response: If no cache controllers are installed on the system, this message is normal and informational only. If cache controllers are installed, record the return code and reason code and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD034W  KDFDCISS: ALLOCATION FAILED FOR W#CCUWRK; SIZE=[ bytes]

Explanation: Cache control unit collection initialization failed during the allocation of a required work area. The size required for the area is displayed.

System action: Control unit cache data collection does not occur.

User response: Restart the Tivoli Enterprise Monitoring Server address space with a larger region size. If the error still occurs, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD035W  KDFDCISS: EXTRA SPACE FOR CONTROL UNITS USED; DATA LOST FOR: [cache_control_unit]

Explanation: An attempt was made to add the cache control unit specified to the control unit work area after initialization and all extra space allocated for such additions was used. The Tivoli Enterprise Monitoring Server was not able to keep and report data about the specified control unit. The control unit is specified by the SSID (ssidFF00) or the SDID (FFFFcc00, where cc is the SDID).

System action: None.

User response: Although not immediately required, restart the Tivoli Enterprise Monitoring Server address space to remedy the situation. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD036W  KDFDCISS: ERROR IN $CACHRTR UPDATE CUSCAN; RC=[ return_code] REASON=[reason_code]

Explanation: An error occurred in retrieving cache control unit information for the return and reason codes displayed. All cache control unit status information might not be current.

System action: None.

User response: One occurrence of this message does not indicate a problem. If the message persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD037W  KDFDCISS: CU NOT FOUND IN W#CCUWRK DURING DEVICE ACCUMULATION PHASE: [cache_control_unit]

Explanation: The specified cache control unit associated with a DASD device was not represented in the control unit work area. The control unit is specified by the SSID (ssidFF00) or the SDID (FFFFcc00, where cc is the SDID).

System action: Data pertaining to this DASD device is not included in cache control unit information.

User response: One occurrence of this message does not indicate a problem. If the message persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD038W  KDFDCISS: CU UPDATED IN DEVICE ACCUM PHASE BUT NOT DURING CUSCAN PHASE: cache_control_unit

Explanation: The specified cache control unit associated with a DASD device has not had its data updated during the current collection interval. The control unit is specified by the SSID (ssidFF00) or the SDID (FFFFcc00, where cc is the SDID).

System action: None. All data is still there; however, the control unit status information might not be current.

User response: One occurrence of this message does not indicate a problem. If the message persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD039W  KDFDCISS: ERROR IN $CACHRTR DEVICE ACCUM. SCAN; RC=[ return_code] REASON=[reason_code]

Explanation: An error occurred in retrieving DASD cache information, which was to be accumulated at the cache control unit level. The return and reason codes are given in the message. All cache control unit statistics might not be current.

System action: None.

User response: One occurrence of this message does not indicate a problem. If the message persists, record the return and reason codes and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFD040W  KDFD047W

KDFD040W  KDFDCISS: $CACHTAB
FUNCTION=REFRESH ([n]) FAILED;
RC=[return_code]
REASON=[reason_code]

Explanation: An error occurred while refreshing current cache information; the return and reason codes are displayed. Cache information might not be as current as specified in the CACHINTV parameter in member KDFDEVIN.

System action: None.

User response: One occurrence of this message does not indicate a problem. If the message persists, record the return and reason codes and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD041W  KDFDCISS: $CACHTAB
FUNCTION=RESET FAILED;
RC=return_code
REASON=reason_code

Explanation: An error occurred while resetting cache base statistics; the return and reason codes are given in the message. Cache information covers a longer period than specified in the CACHINTV parameter in the KDFDEVIN member.

System action: None.

User response: Record the return and reason codes and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD042W  COLLECTION INTERVAL TABLE INQUIRY FAILED - reason

Explanation: The probe that collects data collection interval information failed because of the reason appended to the end of the message.

System action: Processing continues. A default collection interval is adopted.

User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD043W  COLLECTION INTERVAL TABLE UPDATE REJECTED - UPDATE IN PROGRESS

Explanation: An attempt to update data collection interval information failed because of contention.

System action: The update is rejected.

User response: Retry the request. If the problem persists contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD044W  COLLECTION INTERVAL TABLE UPDATE FAILED - $DEVWRK NOT FOUND

Explanation: An attempt to update data collection interval information failed because an internal control block cannot be found.

System action: The update is rejected.

User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD045I  COLLECTION INTERVAL TABLE UPDATE SUCCESSFUL

Explanation: An update of the data collection interval information successfully completed.

System action: Normal processing continues.

User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD046W  DEVICE MONITOR TABLE INQUIRY FAILED - [reason]

Explanation: This message indicates that an internal error has occurred. An attempt to obtain device monitoring information from the table was unsuccessful for the specified [reason].

System action: The request for device monitoring data is terminated. Processing continues.

User response: If the [reason] specified indicates that storage was not available, increase the storage available to the Tivoli Enterprise Monitoring Server. If there appears to be sufficient storage in the Tivoli Enterprise Monitoring Server address space, and for all other reasons, contact IBM Software Support.

KDFD047W  DEVICE COLLECTION TABLE UPDATE FAILED - xxxxxxxxxx

Explanation: An attempt to update the device collection table failed. The reason for the failure is stated in the message. Possible reasons are:
- KDFX REQUEST FAILED
- STORAGE UNAVAILABLE
- MONITOR RESET FAILED

This message might be preceded by an additional KDFD047W message containing diagnostic information in the following format: KDFXcccc REQUEST ERROR - CN RC=9999 KDFX RC=9999

System action: OMEGAMON II continues monitoring using the existing device collection table.

User response: Try the update again. If the problem persists, contact IBM Software Support. The destination
is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD048I • DEVICE COLLECTION TABLE UPDATE SUCCESSFUL**

**Explanation:** An attempt to update the device collection table completed successfully.

**System action:** OMEGAMON II continues monitoring using the updated device collection table.

**User response:** This is an informational message only. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD049W • DEVICE COLLECTION TABLE ADD FAILED - [xxxxxxxxxx]**

**Explanation:** An attempt to add a device to the collection table failed. The reason for the failure is stated in the message. Possible reasons are:

- KDFX REQUEST FAILED
- MEMORY NOT AVAILABLE
- MONITOR RESET FAILED
- DUPLICATE ENTRY

This message might be preceded by an additional KDFD049W message containing diagnostic information in the following format: KDFX cccc REQUEST ERROR - CN RC=9999 KDFX RC=9999

**System action:** OMEGAMON II continues monitoring using the existing device collection table.

**User response:** Try the update again. If the problem persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD051I • DEVICE COLLECTION TABLE ADD SUCCESSFUL**

**Explanation:** An attempt to add a device to the device collection table completed successfully.

**System action:** Monitoring continues using the updated device collection table.

**User response:** This is an informational message only.

**KDFD052W • DEVICE COLLECTION TABLE RESET FAILED - [reason]**

**Explanation:** This message indicates that an internal error has occurred. An attempt to modify device monitoring information in the table was unsuccessful for the specified [reason].

**System action:** The request for device monitoring data is terminated. Processing continues.

**KDFD053I • DEVICE COLLECTION TABLE RESET SUCCESSFUL**

**Explanation:** An attempt to delete a device from the device collection table completed successfully.

**System action:** Monitoring continues using the updated device collection table.

**User response:** This is an informational message only.

**KDFD055W [parameter] KEYWORD SYNTAX INVALID**

**Explanation:** An error was detected during the parsing of the KDFDEVSU member of the RKANPAR data set.

**System action:** The DASD exclusion list is incomplete.

**User response:** Correct the keyword syntax. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD056W [parameter] KEYWORD INVALID**

**Explanation:** A syntax error was discovered while processing the listed parameter of the KDFDEVSU member of the RKANPAR data set.

**System action:** The DASD exclusion list is incomplete.

**User response:** Review the region size of the Tivoli Enterprise Monitoring Server Engine address space. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD057W [parameter] KEYWORD INVALID MONITOR STATUS SPECIFIED**

**Explanation:** A syntax error was discovered while processing KDFDEVSU. The monitor status specified on the listed parameter is not valid.

**System action:** The DASD exclusion list is incomplete.

**User response:** Correct the erroneous syntax.
KDFD058W [parameter] KEYWORD INVALID
DEVICE ADDRESS SPECIFIED

Explanation: A syntax error was discovered while processing the KDFDEVSU member of the RANPAR data set. The range of addresses in the listed parameter was not valid.

System action: The DASD exclusion list is incomplete.

User response: Correct the erroneous syntax. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD059W KDFDSCIN PARM KEYWORD [keyword] INVALID

Explanation: The indicated [keyword], found in member KDFDSCIN, is not valid.

System action: Processing continues, possibly without some devices included. Message KDFD016W follows to indicate that some devices might have been skipped due to the incorrect keyword.

User response: Correct the erroneous syntax.

KDFD060W [parameter] KEYWORD DUPLICATE ENTRY SPECIFIED

Explanation: A duplicate specification occurred while processing the KDFDEVSU member of the RANPAR data set.

System action: The DASD exclusion list is incomplete.

User response: Correct the erroneous duplicate syntax. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD061W KDFDEVIN: RMF API INITIALIZATION FAILURE, RC=[ nn]

Explanation: An attempt to initialize the RMF API failed with a return code of nn.

System action: The RMF API is not used to retrieve performance data.

User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD062W DUPLICATE [keyword] KEYWORD REJECTED

Explanation: The indicated [keyword], found in member KDFDSCIN, was specified more than once.

System action: Processing continues, possibly without some devices included.

User response: Remove the duplicate keyword from member KDFDSCIN.

KDFD063W [parameter] KEYWORD VALUE INVALID

Explanation: A syntax error was discovered while processing the KDFDEVSU member of the RANPAR data set.

System action: The DASD exclusion list is incomplete.

User response: Correct the erroneous syntax. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD064I KDFDSCIN - HISTORICAL REPORTER ENABLED: SS RC=[retcode] DF RC=[reascode]

Explanation: This message indicates that an internal error has occurred. An attempt to start historical collection for data-set-level I/O failed with the indicated return and reason codes.

System action: Processing continues without data-set-level historical collection.

User response: Contact IBM Software Support.

KDFD068W KDFDPDEV: RMF SYNCHRONIZATION FAILED - RC=[n] - RECORDING INTERVAL DEFAULTING TO 15 MINUTES

Explanation: Module KDFDPDEV has not been able to synchronize recording with the RMF interval. RC=[n] indicates the reason that the recording interval defaulted to 15 minutes. Return codes are:

- 0 - OK
- 4 - Interval=0 from API
- 8 - NO STGST address
- 12 - NO RMF routine address
- 16 - Parm area address in R1=0 on entry
- 20 - RMF Routine address is dummy
- 24 - Interval = 0 from control blocks
- 28 - Interval less than 1 minute
- 32 - Load failed for KDFDRMFI
- 36 - KDFDRMFI entry point not found

System action: Device statistics are collected at 15-minute intervals.

User response: The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG. If this message persists and RMF monitor 1 is active contact IBM Software Support with the return code information.
KDFD069E  KDFPDEV: SETUP FAILED FOR DASD TABLE INSERTS; RC=rc

Explanation: The setup request issued prior to inserting historical application information into the Persistent Data Store failed with return code rc. Possible return code values include the following:

x'FF'
Meaning: The persistent data store did not initialize successfully and the control blocks do not exist.
Action: Re-initialize the data sets of the persistent data store. The CTPDSOUT and CTPDSLOG JES data sets can contain information concerning the problem. If this fails, contact IBM Software Support.

x'FE'
Meaning: Control blocks for the persistent data store have not yet initialized.
Action: Retry. If problem persists, contact IBM Software Support.

x'FD'
Meaning: An error occurred locating the PDSVECT control block.
Action: Contact IBM Software Support.

x'FC'
Meaning: An error occurred locating the TCS for the table.
Action: Contact IBM Software Support.

x'FB'
Meaning: An attempt to allocate engine storage for a TCS copy failed.
Action: Check the storage utilization information displayed in messages KLVSD001 - KLVSD008 in the RKLVLOG. If necessary increase the value specified in the MINIMUM parm in KDSSYSIN. If the problem persists, contact IBM Software Support.

x'FA'
Meaning: The FINDTC address in PDSVECT is zero.
Action: Contact IBM Software Support.

x'F9'
Meaning: The addresses for the INSERTPR and/or LOCATEPR in the vector table are zero.
Action: Contact IBM Software Support.

x'F8' - x'01'
Meaning: Indicate values returned by functions INSERTSR or LOCATESR.
Action: Contact IBM Software Support.

System action: Historical information collection is bypassed for the current interval. Collection is retried next interval.
User response: Verify the persistent data store was allocated and initialized without error. If the problem persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD070E  KDFD070E  KDFPDEV: INSERT FAILED FOR DASD TABLE INSERT; RC=99 -- RECORDING TERMINATING FOR THIS INTERVAL

Explanation: A request to add historical DASD information to the Persistent Data Store failed with return code '99'.

System action: Historical DASD information collection is terminated. Collection is retried during the next collection interval.
User response: Verify the persistent data store was allocated and initialized without error. Check the Tivoli Enterprise Monitoring Server address space logs CTPDSOUT and CTPDSLOG for relevant messages. If the problem persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD071E [module_name] DASD PDS RECORDING DISABLED - [reason]

Explanation: The recording of DASD information to the persistent data store is disabled for the reason indicated in [reason].

System action: Normal processing continues, but historical DASD information is unavailable.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD072W KDFPDEV: DASD PDS RECORDING SKIPPED THIS INTERVAL - NO ENTRIES FOUND IN DEVICE TABLE

Explanation: No DASD are currently being monitored and no historical information is recorded for this interval.

System action: Normal processing continues.
User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD073W KDFPDEV: CACHE STATISTICS NOT RECORDED THIS INTERVAL - V#CISTOK IS ZERO

Explanation: No cache statistics can be recorded.

System action: Normal processing continues, but no historical cache information is available for this interval.
User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFD074W  KDFDPDEV: $CACHRTR ERROR; VOLSER=[volser] RC=[nn] REASON=[xx]

Explanation: An error occurred attempting to retrieve cache statistics.

System action: Normal processing continues, but no historical cache information is available for this interval.

User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD075E  KDFDTPIN: INPUT DATA NOT AVAILABLE - TAPE COLLECTION BYPASSED

Explanation: Module KDFDTPIN was unable to read member KDFDTPIN of the rhilev.TKDFPRMD data set.

System action: Tape information is not available. The collection of tape data is disabled.

User response: If the KDFDTPIN member of the rhilev.TKDFPRMD data set does not exist, define it using the Configuration Tool panels. If the member does exist, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD076I  KDFDTPIN: INTERVAL OF OFF SPECIFIED - TAPE COLLECTION DISABLED

Explanation: The INTERVAL value in the KDFDTPIN member of the rhilev.TKDFPRMD data set was specified as OFF.

System action: Tape information is not available. The collection of tape data is disabled.

User response: None, if no tape data is desired. If tape data is desired, define a collection interval using the Configuration Tool panels. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD077I  KDFD076I  KDFDTPIN: INTERVAL OF 0 SPECIFIED - TAPE COLLECTION DISABLED

Explanation: The INTERVAL value in the KDFDTPIN member of the rhilev.TKDFPRMD data set was specified as 0.

System action: Tape information is not available. The collection of tape data is disabled.

User response: None, if no tape data is desired. If tape data is desired, define a nonzero collection interval using the Configuration Tool panels. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD078I  SUBSYSTEM ARCHIVE TASK FAILURE DETECTED

Explanation: An attempt failed in issuing a cross-memory POST to the OMEGAMON subsystem to obtain data-set-level statistics for historical recording. This error normally is accompanied by a S602 abend in the Tivoli Enterprise Monitoring Server address space.

System action: Processing continues without data-set-level historical data for the current interval. The system retries the request at the next data set collection interval.

User response: The most likely cause of this error is that the OMEGAMON subsystem address space had abnormally terminated. If that is the case, restart the OMEGAMON subsystem.

KDFD079I  KDFDPDSN - [function] REQUEST ERROR SS RC=[retcode] DF RC=[reascode]

Explanation: This message indicates that an internal error has occurred. An attempt to communicate with the OMEGAMON subsystem address space for the indicated [function] failed with the listed return and reason codes.

System action: Processing continues without data-set-level historical collection for this cycle. The system retries the request at the next data set collection interval.

User response: Most causes of this message are transient in nature, and do not indicate a problem. If the message persists, contact IBM Software Support.

KDFD080I  KDFDPDSN [reqid] REQUEST ERROR RC= [ rc]

Explanation: DF request indicated by reqid cannot be completed for KDFDPDSN. The error return code rc indicates the type of problem. Possible return code values include the following:

x'FF'  Meaning: The persistent data store did not initialize successfully and the control blocks do not exist.

Action: Re-initialize the data sets of the persistent data store. The CTPDSOUT and CTPDSLOG JES data sets can contain information concerning the problem. If this fails, contact IBM Software Support.

x'FE'  Meaning: Control blocks for the persistent data store have not yet initialized.

Action: Retry. If problem persists, contact IBM Software Support.

x'FD'  Meaning: An error occurred locating the PDSVECT control block.
KDFD081E  KDFD086E

Action: Contact IBM Software Support.

x'FC'
Meaning: An error occurred locating the TCS for the table.
Action: Contact IBM Software Support.

x'FB'
Meaning: An attempt to allocate engine storage for a TCS copy failed.
Action: Check the storage utilization information displayed in messages KLVSD001 - KLVSD008 in the RKLVLOG. If necessary increase the value specified in the MINIMUM parm in KDSSYSIN. If the problem persists, contact IBM Software Support.

x'FA'
Meaning: The FINDTC address in PDSVECT is zero.
Action: Contact IBM Software Support.

x'F9'
Meaning: The addresses for the INSERTPR and/or LOCATEPR in the vector table are zero.
Action: Contact IBM Software Support.

x'F8'-x'01'
Meaning: Indicate values returned by functions INSERTSR or LOCATESR.
Action: Contact IBM Software Support.

System action: A system request cannot be completed.
User response: Most causes of this message are transient in nature, and do not indicate a problem. If the message persists, contact IBM Software Support.

KDFD081E  KDFDTAPE: SUBSYSTEM FUNCTION
DIOPUCBA: RC = [xx ] - [yy]

Explanation: An attempt to access the subsystem failed with return code xx and reason code yy.
System action: The collection of tape data is disabled. Tape data is not available.
User response: Verify that the subsystem was installed with the proper level of maintenance, and has been started. Gather the RKLVLOG for the data collection address space, and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD084E  KDFDTAPE: STORAGE UNAVAILABLE,
LENGTH = [xxxxxxxx ]

Explanation: An attempt to obtain xxxxxxxx bytes of storage failed.
System action: The collection of tape data is disabled. Tape data is not available.
User response: Keep the RKLVLOG for the data collection address space and contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD085E  KDFDTAPE: LOAD FAILED FOR IEFEB4UV

Explanation: IBM load module IEFEB4UV was not available to be loaded.
System action: The collection of tape data is disabled. Tape data is not available.
User response: Load module IEFEB4UV should be in either SYS1.LINKLIB or SYS1.LPALIB. Contact your system programmer to determine the location of this IBM module. If it is located in either a linklisted data set or a data set in the LPALIB concatenation, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD086E  KDFLDEV: REQUEST FOR
HISTORICAL DATA FAILED - ERROR LOCATING DFPDSWKA

Explanation: An attempt to retrieve historical device data failed because an internal control block cannot be found.
System action: No data is returned.
User response: This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFD087E  [module_name] FETCH FAILED FOR DASD TABLE; RC=[retcode] - DATA RETRIEVAL FROM PDS TERMINATING

**Explanation:** This message indicates that an internal error has occurred. An attempt to retrieve historical data from the persistent data store failed with the indicated [retcode].

**System action:** The attempt to retrieve historical data for the request is terminated.

**User response:** Contact IBM Software Support.

KDFD089I KDFLDEV: HISTORICAL DATA FETCHED IS PAST RANGE; DATE REQUESTED = [mm/dd/yy], TIME REQUESTED = [hmmss], DATE RETURNED = [mm/dd/yy], TIME RETURNED = [hmmss]

**Explanation:** No qualifying data can be found for the historical request.

**System action:** Normal processing continues, but no data is returned.

**User response:** None.

KDFD093W KDFDPAPL: RMF SYNCHRONIZATION FAILED - RC=[n] - RECORDING INTERVAL DEFAULTING TO 15 MINUTES

**Explanation:** Module KDFDPAPL has not been able to synchronize historical recording with the RMF interval. RC=n indicates the reason that the recording interval defaulted to 15 minutes. Return codes are:

- 0 - OK
- 4 - Interval=0 from API
- 8 - NO STGST address
- 12 - NO RMF routine address
- 16 - Parm area address in R1=0 on entry
- 20 - RMF Routine address is dummy
- 24 - Interval = 0 from control blocks
- 28 - Interval less than 1 minute
- 32 - Load failed for KDFDRMFI
- 36 - KDFDRMFI entry point not found

**System action:** Application statistics is collected at 15 minute intervals.

**User response:** None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD094E KDFDPAPL: SETUP FAILED FOR APPL TABLE INSERTS; RC=[ 99]

**Explanation:** The setup request issued prior to inserting historical application information into the Persistent Data Store failed with return code ‘99’.

**System action:** Historical information collection is bypassed for the current interval. Collection is retried next interval.

**User response:** Verify the persistent data store was allocated and initialized without error. If the problem persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD095E KDFDPAPL: INSERT FAILED FOR APPL TABLE INSERT; RC=[ rc] -- RECORDING TERMINATING FOR THIS INTERVAL, R5=[ r5]

**Explanation:** An attempt to insert historical application data into the Persistent Data Store (PDS) failed with return code specified as rc . r5 contains the length of the record being inserted.

**System action:** This historical record is bypassed and processing continues.

**User response:** Verify that the persistent data store is large enough, and that it was allocated and initialized without error. If the problem persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD096E KDFDPAPL: APPL PDS RECORDING DISABLED - [reason ]

**Explanation:** An attempt to initialize historical application data recording in the Persistent Data Store failed because of reason . Possible values for reason include:

- $DEVWRK ADDRESS ZERO ON ENTRY
- OM2SM VECTOR TABLE NOT FOUND
- $APPLWRK WORK AREA NOT FOUND
- DFPDSWKA WORK AREA NOT FOUND
- INVALID DFPDSWKA DETECTED
- LOAD FAILED FOR KDFDRMFI

**System action:** Historical collection for application data is bypassed for the life of this Tivoli Enterprise Monitoring Server address space.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
**KDFD101I**  •  **KDFD109E**

**KDFD101I**  [parm] KEYWORD INVALID - SET TO DEFAULT

**Explanation:** The value specified for keyword parm in member KDFDSCIN of the RKANPAR data set is not valid.

**System action:** The default value is taken for the keyword parameter and processing continues.

**User response:** Correct the value for the keyword and issue the DFREF command to refresh the KDFDSCIN parameters. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD102W** MSR AND SAMPCT KEYWORDS MUTUALLY EXCLUSIVE

**Explanation:** Keywords MSR and SAMPCT were both specified for the same volume in member KDFDSCIN of the RKANPAR data set. These keywords are mutually exclusive.

**System action:** The volume in error is bypassed for data set level monitoring. Normal processing continues.

**User response:** Correct the error in KDFDSCIN and issue the DFREF command to refresh the KDFDSCIN parameters. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD103W**  [parm] KEYWORD - MSR KEYWORD REQUIRES MONITOR STATUS ON

**Explanation:** OFF and MSR= were specified together on keyword parm in member KDFDSCIN of the RKANPAR data set. The specification of an MSR value requires monitoring status to be specified as (or allowed to default to) ON. Possible values for parm include:

- DEVICES
- DEVRANGE
- VOLSERS

**System action:** The volume in error is bypassed for data set level monitoring. Normal processing continues.

**User response:** Correct the error in KDFDSCIN and issue the DFREF command to refresh the KDFDSCIN parameters. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD104W** KDFDEVSU PARM KEYWORD [parameter] INVALID

**Explanation:** A syntax error was discovered while parsing the contents of the KDFDEVSU member of the RKANPAR data set.

**System action:** The DASD exclusion list is incomplete.

**User response:** Correct the erroneous syntax. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD105W** KDFDEVSU PARM ERRORS DETECTED; EXCLUDE LIST INCOMPLETE

**Explanation:** Errors have been detected while parsing the contents of the KDFDEVSU member of the RKANPAR data set. A preceding error message details the exact cause of the error.

**System action:** The DASD exclusion list only consists of those specifications successfully parsed prior to discovery of the error.

**User response:** Correct the erroneous syntax. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD106I** KDFDEVSU PARM MEMBER NOT FOUND; EXCLUDE LIST WAS NOT BUILT

**Explanation:** There is no KDFDEVSU member in the RKANPAR data set.

**System action:** Normal processing continues, all devices are monitored.

**User response:** None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFD108I** KDFDTPIN: DATA COLLECTION INTERVAL SET TO [int] SECONDS

**Explanation:** Tape device collection has been set to the value specified by [int], expressed as seconds.

**System action:** Processing continues.

**User response:** None. Information message.

**KDFD109E** KDFDCHPS - RMF API NOT AVAILABLE

**Explanation:** IBM module ERBSMFI was not found in an available library.

**System action:** Processing continues but all data appears as zeros or “n/a” on the screen. This data is normally obtained through the RMF API.

**User response:** Find the library containing the RMF interface module ERBSMFI and make sure it is available to the Tivoli Enterprise Monitoring Server started task. This can involve concatenating it as a STEPLIB. Be aware that your shop might be running a third-party RMF substitute such as CMF. In that case, the CMF LOADLIB should be concatenated to the STEPLIB in your Tivoli Enterprise Monitoring Server startup proc. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFD110E  KDFDCHPS: RMF API FAILURE, RC= [xxxxxxxx]
Explanation: An error code ( xxxxxxxx ) was returned by the IBM RMF interface.
System action: The collector terminates using the RMF API for the duration of this collection interval. However, a new attempt to use the interface is made during the next and subsequent collection intervals.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD111E  [module]: RMF SMF RECORD, INVALID DCS
Explanation: An SMF record was encountered which should have contained a data control section, but did not. Possible values for module include: KDFDCHPS and KDFLCHP.
System action: The collector stops using the RMF API for the duration of this collection interval. However, a new attempt to use the interface is made during the next and subsequent collection intervals.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD112E  KDFDCHPS: RMF API RETURN ERROR, RC= [xxxxxxxx]
Explanation: Attempting to execute the RETURN function of the RMF interface, an error ( xxxxxxxx ) was returned.
System action: The collector stops using the RMF API for the duration of this collection interval. However, a new attempt to use the interface is made during the next and subsequent collection intervals.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD113W  CPMF UNAVAILABLE - NO CHPID DATA
Explanation: The channel path measurement facility is unavailable.
System action: No further attempt is made to gather channel path data for this collection interval.
User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD114W  CPMF INACTIVE - NO CHPID DATA
Explanation: The channel path measurement facility mode has changed between inactive, compatibility or extended mode.
System action: No further attempt is made to gather channel path data for this collection interval.
User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD115I  CPMF MODE CHANGE - NO CHPID DATA
Explanation: The channel path measurement facility mode has changed between inactive, compatibility or extended mode.
System action: No further attempt is made to gather channel path data for this collection interval.
User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD116I  KDFDEVIN DFSMSHSM NOT INSTALLED
Explanation: The IBM Hierarchical Storage Management (HSM) system is not installed on the system.
System action: No further attempt is made to gather HSM related data.
User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD117I  KDFDUDGI INPUT PARMS: [xxxxxxxx]
Explanation: The input parameters from the KDFDUDGI member of the rhilev RKANPAR data set were written as xxxxxxxx.
System action: None. Processing continues.
User response: This message is output as a result of an error. There should be an error message in the Tivoli Enterprise Monitoring Server SYSOUT log. Follow the instructions for the error. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

KDFD118E  KDFDUDGI MULTIPLE NAME PARAMETERS IN GROUP DEFINITION - GROUP IGNORED
Explanation: The NAME keyword was specified twice in the definition for a single user DASD group.
System action: The definition of the user DASD group is ignored.
User response: This message should be accompanied by message KDFD117I. Remove the
multiple NAME keywords from the definition of the user DASD group in the KDFDUDGI member of the rhilev.RKANPAR data set. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

**KDFD119E** KDFDUDGI UNABLE TO ALLOCATE SUMMARY VECTOR

**Explanation:** The summary vector build failed.

**System action:** Processing continues; however, the product is degraded. There is not any user DASD groups available, and various components of the product do not function properly.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

**KDFD120E** KDFDUDGI GROUP NAME PREVIOUSLY DEFINED - DUPLICATE IGNORED

**Explanation:** A user DASD group with this name was previously defined.

**System action:** This definition for the user DASD group is ignored. The previously defined user DASD group is not affected.

**User response:** All user DASD group definitions must have unique names. This message should be accompanied by message KDFD117I. Rename the user DASD group as defined in the KDFDUDGI member of the RKANPAR data set. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

**KDFD121W** KDFDUDGI INPUT DATA NOT AVAILABLE - NO USER GROUPS DEFINED

**Explanation:** Member KDFDUDGI of the rhilev.RKANPAR data set was not found.

**System action:** No user DASD groups are defined.

**User response:** This message can be ignored if there was no intention to define user DASD groups and the KDFDUDGI member of the rhilev.RKANPAR data set does not exist. Otherwise, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

**KDFD122E** KDFDUDGI - [xxxx]: [yyyy]

**Explanation:** A syntax error has occurred in which: xxxx is the error and yyyy is the input data that caused the error.

**System action:** The user DASD group definition containing the error is ignored. Processing continues with the next user DASD group definition.

**KDFD123E** KDFDUDGI - STORAGE ALLOCATION FAILURE; SIZE= [xxxx]

**Explanation:** Allocation of xxxx bytes of virtual storage failed.

**System action:** The user DASD group definition containing the error is ignored. Processing of KDFDUDGI parameters is terminated.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

**KDFD124E** KDFDUDGI - GROUP NAME MUST BE DEFINED PRIOR TO OTHER ELEMENTS

**Explanation:** The first parameter of a user DASD group definition was not the NAME keyword.

**System action:** The user DASD group definition containing the error is ignored. Processing continues with the next user DASD group definition.

**User response:** A user DASD group definition must begin with the keyword NAME. This message is accompanied by message KDFD117I. Correct the error and restart the Tivoli Enterprise Monitoring Server address space. The error is in the KDFDUDGI member of the rhilev.RKANPAR data set. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

**KDFD125I** KDFDUDGI - EMPTY INPUT MEMBER PROCESSED

**Explanation:** The KDFDUDGI member of the rhilev.RKANPAR data set was empty.

**System action:** No user DASD groups are defined. Processing continues.

**User response:** If the KDFDUDGI member of the rhilev.RKANPAR data set was intentionally left empty, then no action is necessary. If the intention was to define user DASD groups, use the Configuration Tool to try again. If the problem persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

**KDFD126E** KDFDUDGI - INVALID INTERNAL CHAIN, RC = [xx]

**Explanation:** An internal control block chain was not valid. The xx field indicates the chain with the problem.
KDFD127E  KDFDUDGI - VOLSER INPUT INVALID
Explanation:  The VOLSER input is invalid.
System action:  The input from the VOLSER keyword had invalid syntax. The processing of the user DASD group definition with the problem halts. Other processing continues normally.
User response:  Review the rules for the VOLSER keyword and correct the mistake. Then restart Tivoli Enterprise Monitoring Server. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

KDFD128E  KDFDUDGI - INVALID DEVICE ADDRESS
Explanation:  The input from the DEVICE keyword had invalid syntax.
System action:  The processing of the user DASD group definition with the problem halts. Other processing continues normally.
User response:  Review the rules for the DEVICE keyword and correct the mistake. Then restart Tivoli Enterprise Monitoring Server. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

KDFD129E  KDFDUDGI - INVALID INTERNAL INDEX
Explanation:  An internal control block had a value that is not valid.
System action:  The processing of the user DASD group definition with the problem halts. Other processing continues normally.
User response:  Review the definition for the user DASD group with the problem. If there are no syntax errors, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

KDFD130E  KDFDUDGI - TOO MANY [xxxxx] ENTRIES
Explanation:  The allowable number of entries of type xxxx was exceeded. The xxxx field specifies one of the keyword parameters.
System action:  The processing of the user DASD group definition with the problem halts. Other processing continues normally.
User response:  Review the definition for the user DASD group with the problem. Reduce the number of entries for which the limit is exceeded. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

KDFD131E  KDFDUDGI - INVALID DEVICE RANGE
Explanation:  A value in the DEVRANGE keyword was not valid.
System action:  The processing of the user DASD group definition with the problem halts. Other processing continues normally.
User response:  Review the definition for the user DASD group with the problem. Correct the DEVRANGE parameter with the problem. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

KDFD132E  KDFDSUMM - STORAGE ALLOCATION FAILURE; SIZE= [xxxxx]
Explanation:  An attempt to allocate xxxx bytes of virtual storage failed.
System action:  The processing of performance and space data for SMS and user DASD groups terminates.
User response:  Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server address space log file, RKLVLOG.

KDFD133E  KDFDUDGI - INVALID MONITOR VALUE
Explanation:  RKANPAR member KDFDUDGI contained a value that is not valid for the MONITOR keyword associated with a User DASD Group.
System action:  Processing continues with the next defined User DASD Group.
User response:  Correct the invalid MONITOR value in RKANPAR member KDFDUDGI. Valid values for MONITOR are ON and OFF.

KDFD135E  KDFDTAPE: SUBSYSTEM FUNCTION DIOPUCBA INVALID ADDRESS RETURNED
Explanation:  An attempt to access the OMEGAMON subsystem to obtain tape device information failed.
System action:  Processing continues, however the attempt to start tape device monitoring is terminated.
User response:  Determine if the OMEGAMON subsystem is active and responsive. If not, restart the subsystem address space and retry the request. If the problem persists contact IBM Software Support.
**KDFD136E** KDFDVTSI: ALLOCATION FAILED FOR [control_block]: SIZE = [size], RC = [retcode]

**Explanation:** An attempt to obtain [size] bytes of storage for initialization of VTS monitoring failed with the indicated [retcode].

**System action:** Processing continues, however the attempt to start Virtual Tape Subsystem monitoring is terminated.

**User response:** Increase the storage available to the Tivoli Enterprise Monitoring Server. If there appears to be sufficient storage available in the Tivoli Enterprise Monitoring Server address space for the request contact IBM Software Support.

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**KDFD137E** INPUT DATA NOT AVAILABLE - VTS COLLECTION INITIALIZING

**Explanation:** An attempt to read RKANPAR member KDFDVTSI for initialization of VTS monitoring failed because the member did not exist, was empty, or contained an invalid keyword value.

**System action:** Processing continues with VTS monitoring enabled.

**User response:** None. If VTS monitoring should be turned off, ensure that RKAPNPAR member KDFVTSI is present and contains valid values.

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**KDFD138I** KDFDVTSI INPUT PARMS: [parms]

**Explanation:** VTS monitoring has been initialized using the parameters from RKANPAR member KDFDVTSI shown in [parms].

**System action:** Processing continues with the displayed VTS monitoring options in effect.

**User response:** None. Informational message.

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**KDFD139E** KDFDVTSI: LOAD FAILURE FOR MODULE [module], ABEND CODE=[abend_code], REASON CODE=[reason]

**Explanation:** An attempt to issue a LOAD macro for the specified [module] failed with the indicated abend and reason codes.

**System action:** Processing continues with VTS monitoring disabled.

**User response:** Refer to the publication z/OS System Codes to determine the specific cause of the LOAD failure indicated by [abend_code]. Verify that [module] is in the Tivoli Enterprise Monitoring Server RKANMODL load library concatenation and that both the module and the load library are marked APF authorized. If the module appears to be available, executable and authorized, contact IBM Software Support.

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**KDFD140E** KDFDUDSI ALLOCATION FAILURE FOR DATASET GROUPS HEADER

**Explanation:** Allocation failure has occurred for the data set groups header.

**System action:** Tivoli Enterprise Monitoring Server start-up continues.

**User response:** Restart the Tivoli Enterprise Monitoring Server with a larger region size. If the error persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

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**KDFD141E** KDFDUDSI - [input parameter values]

**Explanation:** An unrecognized keyword was encountered during the parsing of the KDFDUDSI member of the RKANPAR data set.

**System action:** Normal operation continues. The specified parameter value is ignored.

**User response:** Correct the specified parameter. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

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**KDFD142E** KDFDUDSI ALLOCATION FAILURE FOR DATASET GROUP

**Explanation:** A GETMAIN request failed.

**System action:** Tivoli Enterprise Monitoring Server start-up continues. User data set groups are not available.

**User response:** Restart the Tivoli Enterprise Monitoring Server with a larger region size. If the error persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

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**KDFD143E** KDFDUDSI - GROUP NAME MAY ONLY BE SPECIFIED ONCE

**Explanation:** The GRPNAME keyword was specified more than once in a single data set group definition.

**System action:** Normal operation continues. The specified group is discarded.

**User response:** Correct the data set group definition in the KDFDUDSI member of the RKANPAR data set. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFD144E  KDFDUDSI - GROUP NAME MUST BE UNIQUE

Explanation: The same name was defined to two different data set groups.

System action: Normal operation continues. The duplicate definition is discarded.

User response: Correct the data set group definition in the KDFDUDSI member of the RKANPAR data set. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD145E  KDFDUDSI - INVALID FEATURE NAME SPECIFIED

Explanation: A feature name that is not valid was specified.

System action: Normal operation continues. The invalid definition is discarded.

User response: Specify only valid feature names in the KDFDUDSI member of the RKANPAR data set. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD146E  KDFDUDSI - FEATURE STATUS NOT CORRECTLY SPECIFIED

Explanation: A valid feature status was not specified.

System action: Normal operation continues. The incorrect definition is discarded.

User response: Ensure that feature names have an accompanying valid feature status in the KDFDUDSI member of the RKANPAR data set. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD147E  KDFDUDSI - INVALID FEATURE STATUS SPECIFIED

Explanation: An invalid feature status was specified.

System action: Normal operation continues. The invalid definition is discarded.

User response: Specify a valid feature status in the KDFDUDSI member of the RKANPAR data set. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
RKANPAR data set. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD152E  KDFDUDSI - NO DATASETS SPECIFIED
Explanation: A data set group was specified without data set entries.
System action: Normal operation continues. The invalid group is discarded.
User response: Correct the data set name length in the data set group definition in the KDFDUDSI member of the RKANPAR data set. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD153E  KDFDUDSI - SAVEAREA STACK EXHAUSTED
Explanation: An internal error occurred.
System action: Data set groups are not available.
User response: Report this error to IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD154I  KDFDUDSI GROUPS READ= [mmmm], GROUPS ACCEPTED= [nnnn]
Explanation: As a result of parsing the KDFDUDSI member of the RKANPAR data set, mmmm data set group were input of which nnnn were accepted.
System action: Data set groups are available.
User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD155I  KDFDUDSI USER DATASET GROUPS SUCCESSFULLY INITIALIZED
Explanation: Initialization of data set groups completed successfully.
System action: Data set groups are available.
User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD156I  KDFDUDSI USER DATASET GROUP WORKAREA LOCATED AT [xxxxxxxxx]
Explanation: This is the hexadecimal address of the work area for data set groups.
System action: Data set groups are available.
User response: None. This message is informational.

The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD157E  KDFDUDSI USER DATASET GROUPS NOT INITIALIZED
Explanation: Data set group initialization failed for the reasons stated in previous messages.
System action: Data set groups are not available.
User response: Examine the error messages immediately preceding this message for the cause of the failure. To ensure correct input, use the Configuration Tool to specify parameters again. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFD158I  KDFDDGP INPUT PARMS: [parms]
Explanation: The displayed [parms] were specified on an input record read from the KDFDUDSI member of the RKANPAR data set.
System action: User Dataset Group processing continues.
User response: None. Informational message.

KDFD159E  DATASET GROUP LOCK UNAVAILABLE
Explanation: This message indicates that an internal error has occurred. The lock could not be obtained to update the internal User Dataset Group control block.
System action: Processing for User Dataset Groups is terminated.
User response: Contact IBM Software Support.

KDFD160E  KDFDVTSI: LOAD FAILURE FOR MODULE [module], RETURN CODE=[return_code]
Explanation: An attempt to issue a LOAD macro for the specified [module] failed with the indicated return code.
System action: Processing continues with VTS monitoring disabled.
User response: Refer to the publication z/OS Assembler Services Guide to determine the specific cause of the LOAD failure indicated by [return_code]. Verify that [module] is in the Tivoli Enterprise Monitoring Server RKANMODL load library concatenation and that both the module and the load library are marked APF authorized. If the module appears to be available, executable and authorized, contact IBM Software Support.
KDFD161E [detecting_module_name]: UNABLE TO OBTAIN [size] BYTES OF CSA, RC = [retcode]

Explanation: An attempt to issue a STORAGE OBTAIN macro for the specified [size] in subpool 241 (CSA) failed with the indicated return code.

System action: Processing continues with VTS monitoring disabled.

User response: Refer to the publication z/OS Authorized Assembler Services Guide to determine the specific cause of the STORAGE OBTAIN failure indicated by [retcode]. If sufficient storage was available in CSA at the time of the request, contact IBM Software Support.

KDFD162E [detecting_module_name]: PROBLEM IN [name_token_function], RC = [retcode]

Explanation: An error, indicated by [retcode], was returned from the specified name/token service routine specified by [name_token_function].

System action: Processing continues with VTS monitoring disabled.

User response: Refer to the publication z/OS Authorized Assembler Services Guide for the specified [name_token_function] to determine the specific cause of the failure indicated by [retcode]. Contact IBM Software Support.

KDFD163E [detecting_module_name]: UNABLE TO RELEASE [size] BYTES OF CSA, RC = [retcode]

Explanation: An attempt to issue a STORAGE RELEASE macro for the specified [size] in subpool 241 (CSA) failed with the indicated return code.

System action: VTS monitoring shutdown continues.

User response: Refer to the publication z/OS Authorized Assembler Services Guide to determine the specific cause of the STORAGE RELEASE failure indicated by [retcode]. Contact IBM Software Support.

KDFD163W [module_name] UNABLE TO RELEASE [size] BYTES OF SQA, RC = [retcode]

Explanation: This message indicates that an internal error has occurred. An attempt to issue a STORAGE RELEASE for [size] bytes of SQA storage failed with the indicated return code.

System action: Processing continues.

User response: [retcode]=4 indicates that some, but not all, of the SQA storage was released; [retcode]=8 indicates that none of the storage could be released. In either case, gather any dump data that might have been produced as a result of the error, and contact IBM Software Support.

KDFD164E [detecting_module_name]: UNABLE TO INSTALL RESOURCE MANAGER, RC = [retcode]

Explanation: An error, indicated by [retcode], was returned from the RESMGR ADD routine.

System action: Processing continues with VTS monitoring disabled.

User response: Refer to the publication z/OS Authorized Assembler Services Guide to determine the specific cause of the RESMGR ADD failure indicated by [retcode]. Contact IBM Software Support.

KDFD165E [detecting_module_name]: UNABLE TO LOAD [module]

Explanation: An attempt to issue an internal load for the specified [module] failed.

System action: Processing continues with VTS monitoring enabled, however historical recording for VTS tables is not in effect.

User response: Verify that [module] is in the Tivoli Enterprise Monitoring Server RKANMOD load library concatenation. If the module appears to be available, contact IBM Software Support.

KDFD166E [detecting_module_name]: VTS PDS RECORDING DISABLED - [reason]

Explanation: An attempt to record VTS historical data to the Persistent Data Store failed for the reason indicated by [reason].

System action: Processing continues, however VTS historical data is not recorded for the current interval.

User response: Examine the Tivoli Enterprise Monitoring Server RKPDLOG output file to ensure that at least 1 Persistent Data Store data set is available for recording in the RKDFDSA PDS group. If [reason] indicates an internal error, contact IBM Software Support.

KDFD167E [detecting_module_name]: SETUP FAILED FOR VTS TABLE INSERTS; RC= [retcode]

Explanation: An attempt to record VTS historical data to the Persistent Data Store failed.

System action: Processing continues, however VTS historical data is not recorded for the current interval.

User response: Examine the Tivoli Enterprise Monitoring Server RKPDLOG output file to ensure that at least 1 Persistent Data Store data set is available for recording in the RKDFDSA PDS group. If [reason]
KDFD168E  KDFD176E

indicates an internal error, contact IBM Software Support.

KDFD168E  [detecting_module_name]: INSERT FAILED FOR VTS TABLE INSERT; RC=[retcode] -- RECORDING TERMINATING FOR THIS INTERVAL

Explanation: An attempt to record VTS historical data to the Persistent Data Store failed.
System action: Processing continues, however VTS historical data is not recorded for the current interval.
User response: Examine the Tivoli Enterprise Monitoring Server RKPDLOG output file to ensure that at least 1 Persistent Data Store data set is available for recording in the RKDFDSA PDS group. If [reason] indicates an internal error, contact IBM Software Support.

KDFD170E  [detecting_module_name]: CSVDYNEX [function] FOR [exit_name] FAILED, RETURN CODE = [retcode], REASON CODE = [reascode]

Explanation: An error, indicated by [retcode] and [reascode], was returned from the CSVDYNEX routine for the specified [function] while preparing the OMEGAMON VTS SMF exit.
System action: Processing continues with a portion of VTS monitoring disabled.
User response: Refer to the publication z/OS Authorized Assembler Services Guide to determine the specific cause of the CSVDYNEX failure indicated by [retcode] and [reascode]. Contact IBM Software Support.

KDFD172E  [detecting_module_name] - VTS SMF POSSIBLE OVERLAY

Explanation: An internal control block failed validity checking, indicating a possible storage overlay.
System action: Processing continues with VTS monitoring disabled.
User response: Contact IBM Software Support.

KDFD173I  [module_name] - UNABLE TO LOAD SYMMETRIX API

Explanation: An attempt to load module KDFSYM by [module_name] has failed.
System action: Processing continues without Symmetrix data.
User response: Verify that module KDFSYM is in the Tivoli Enterprise Monitoring Server RKANMODL load library concatenation and is executable. If it is available and executable, contact IBM Software Support.

KDFD174E  [detecting_module_name] - NOT COLLECTING SMF TYPE [record_type] RECORDS, SUBTYPE=[subtype], RC=[retcode]

Explanation: The indicated SMF record type and subtype, necessary for VTS monitoring, is not being recorded.
System action: Processing continues with VTS monitoring disabled.
User response: Modify SYS1.PARMLIB member SMFPRMxx to enable recording of SMF type [record_type], subtype [subtype] records. Normally this is type 94, subtype 1. If a different SMF record number is being used for VTS, contact IBM Software Support.

KDFD175W  [detecting_module_name]: UNABLE TO DELETE EXIT [exit_name], RETURN CODE = [retcode], REASON CODE = [reascode]

Explanation: An error, indicated by [retcode] and [reascode], was returned from the CSVDYNEX DELETE routine while attempting to remove the OMEGAMON VTS SMF exit specified by [exit_name].
System action: VTS termination processing continues. The specified OMEGAMON VTS SMF exit is still in place.
User response: Refer to the publication z/OS Authorized Assembler Services Guide to determine the specific cause of the CSVDYNEX DELETE failure indicated by [retcode] and [reascode]. Contact IBM Software Support.

KDFD176E  [detecting_module_name] - SMF EXIT [exit_name] NOT DEFINED

Explanation: An attempt to insert an OMEGAMON VTS SMF exit failed because the indicated SMF exit is not defined.
System action: Processing continues with VTS monitoring disabled.
User response: Modify SYS1.PARMLIB member SMFPRMxx to enable the SMF exit specified by [exit_name].

Note: There are multiple instances of this message ID number.

KDFD176E  [detecting_module_name] UNABLE TO FIND TAPE WORK AREA

Explanation: This message indicates that an internal error has occurred. An attempt to start VTS monitoring failed when a control block could not be located.
System action: Processing continues with VTS monitoring disabled.
Contact IBM Software Support.

Note: There are multiple instances of this message ID number.

**KDFD177W**  
[detecting_module_name] NO TAPE GROUPS FOUND

**Explanation:** VTS monitoring could not be started because no tape groups of any type were found on the system.

**System action:** Processing continues without VTS monitoring.

**User response:** This message does not necessarily indicate a problem if the system on which it appears is known to not have any tape devices defined. If there are tape devices defined, examine the RKLVLOG and JESMSG files to determine if any other errors occurred during processing. Contact IBM Software Support.

**KDFD178E**  
[detected_module_name] [number] DEVICES IN VTS [groupname]

**Explanation:** The number of VTS devices found on the system [number] is more than can be monitored. The current maximum number of VTS devices is 256.

**System action:** Processing continues with VTS monitoring for the first 256 devices.

**User response:** This message does not indicate a problem, only that all of the VTS devices defined on the system could not be monitored. If the maximum number of VTS devices to be monitored needs to be increased for your installation, contact IBM Software Support.

**KDFD179E**  
[module_name] - VERSION RETURN CODE = 24, EMCRC = [return_code], EMCRS = [reason_code]

**Explanation:** An attempt to invoke the EMC Symmetrix API module has failed because the module is an unsupported version.

**System action:** Processing continues without Symmetrix data.

**User response:** Verify that the EMC Symmetrix Control Facility runtime libraries available from EMC are in the Tivoli Enterprise Monitoring Server RKANMODL load library concatenation and are at the appropriate version. Contact IBM Software Support.

**Note:** There are multiple instances of this message ID number.

**KDFD179E**  
[detecting_module_name]: IOSCMB RC = [retcode] REASON CODE = [reascode], VOL = [volser]

**Explanation:** An error, indicated by [retcode] and [reascode], was returned from the IOSCMB GET routine while attempting to set up monitoring for a VTS device.

**System action:** Processing continues with some VS devices not monitored.

**User response:** Refer to the publication z/OS Authorized Assembler Services Guide to determine the specific cause of the IOSCMB failure. Contact IBM Software Support.

**Note:** There are multiple instances of this message ID number.

**KDFD180I**  
[module_name]: DFREF: REFRESH [member] ACTIONED

**Explanation:** The DFREF engine command was issued, and was successfully processed for the indicated [member].

**System action:** Tivoli OMEGAMON XE for Storage continues.

**User response:** None.

**KDFD181I**  
[module_name]: STOP REQUEST [reason-code] - LOG ANALYSIS TERMINATED

**Explanation:** A STOP LOGY recording request completed with the following reason code: 0 - NORMAL SHUTDOWN 4 - STORAGE NOT AVAILABLE 8 - ENVIRONMENT ERROR 16 - ABEND

**System action:** Tivoli OMEGAMON XE for Storage continues.

**User response:** None.

**KDFD182E**  
[module_name]: INVALID REQUEST CODE [code] - LOG ANALYSIS TERMINATED

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KDFD183E**  
[module_name]: SERVICE TASK ATTACH FAILED [code] - LOG ANALYSIS TERMINATED

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This
KDFD184E • KDFD191E

Problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD184E [module name]: LOGY [action] FAILED, DSN=[dataset-name], RC=[return-code], REASON=[reason-code]
Explanation: This message indicates that an internal error has occurred. The [action] is either OPEN or GET for [dataset-name], and it failed with [reason-code].
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD185E [module name]: LOGY ALLOCATION FAILED, DSN=[dataset-name], RC=[return-code]
Explanation: This message indicates that an internal error has occurred. The module attempted a DYNALLOC for [dataset-name], which failed with [return-code].
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD186E [module name]: LCU LIMIT REACHED, SUMMARY DATA UNAVAILABLE
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD187E [module name]: GETMAIN FAILURE, RC = [reason], SUMMARY DATA UNAVAILABLE
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD188E [module name]: ABEND MAY HAVE CAUSED LOSS OF [table] PDS DATA
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD189W [module name]: $GMEM FAILED FOR SMF RECORD ASSEMBLY AREA WAITING 15 MINUTES UNTIL RETRY
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD190E [module name]: UNABLE TO LOCATE OMII VECTOR
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD191E [module name]: DEVICE COLLECTION WORK AREA NOT FOUND, SMF RECORDING WILL BE RE-ATTEMPTED NEXT INTERVAL
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KDFD192E  [module name]: NO ENTRIES FOUND IN DEVICE TABLE, SMF RECORDING WILL BE RE-ATTEMPTED NEXT INTERVAL
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD193E  [module name]: V#CISTOK IS ZERO CACHE STATISTICS NOT RECORDED DURING THIS INTERVAL
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD194E  [module name]: SMFWTM ERROR RC=[return-code], ([volser-or-group])
Explanation:  An SMFWTM macro failed with [return-code].
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  See “z/OS MVS System Management Facilities (SMF)” manual for an explanation of the return code. Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD195E  [module name]: $POST CODE ERROR
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD196E  [module name]: KDFDEVIN/KOSDEVIN NOT FOUND IN RKANPARU
Explanation:  During initialization, neither of members KDFDEVIN or KOSDEVIN were found in the RKANPARU data set. This is an installation or a configuration error.
System action:  If installed, the Tivoli OMEGAMON XE for Storage on z/OS product does not function. If installed, the Tivoli OMEGAMON XE for z/OS product is missing data regarding cache usage and DASD space information as a result of this error.
User response:  If you have Tivoli OMEGAMON XE for Storage on z/OS installed, check that you have submitted installation job DF#3xxx, which catalogs member KDFDEVIN in RKANPAR. If you do not have Tivoli OMEGAMON XE for Storage installed but you do have Tivoli OMEGAMON XE for z/OS installed then check that you have submitted installation job M5#4xxx to catalog member KOSDEVIN. If this does not resolve your problem, contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFD200W  KDFDTAPE: COLLECTION SKIPPED DUE TO POSSIBLE DYNAMIC RECONFIGURATION
Explanation:  The tape collector encountered an 0C4 attempting to access a UCB using the address currently stored in the internal tape table. This usually occurs when a dynamic reconfiguration is done while the collector is running.
System action:  The collector will stop collecting and wait for the next interval, at which time it will check whether a dynamic reconfiguration has occurred. If so, the internal tape table will be rebuilt using the new UCB addresses.
User response:  None required.

KDFD202E  KDFDTAPE: TERMINATING DUE TO RECURSIVE ABEND
Explanation:  Tape collection module KDFDTAPE abended twice in a row.
System action:  The collector terminates. No further collection of tape data will occur until the agent is recycled or the collector is manually restarted.
User response:  If you believe the abend was the result of a transient condition that has since been cleared, you may restart tape collection by issuing the following MODIFY command on the z/OS console: F temsname,DFREF KDFDTPIN
KDFDBG01  KDFDHSML

KDFDBG01  The contents of this message varies depending on debugging conditions in effect

Explanation:  This message is generated when the product is executed in debugging mode. It should appear only when diagnosing a problem with IBM Software Support.

System action:  The message is written to the Tivoli Enterprise Monitoring Server Engine log data set.

User response:  Follow instructions from IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFDHSML  INVALID REQUEST CODE - LOG ANALYSIS TERMINATED

Explanation:  A request that is not valid was made of the HSM log analysis controller.

System action:  HSM Log analysis terminates.

User response:  This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFDHSML  LOGY ALLOCATION FAILED, DSN= [dsname], RC= [xxx]

Explanation:  An attempt at allocating the HSM log data set has failed with the specified return and reason code.

System action:  The request is attempted up to twice, as necessary. If the third attempt fails, HSM log analysis terminates.

User response:  This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

Note:  There are multiple instances of this message ID number.

KDFDHSML  LOGY GET FAILED, DSN= [dsname], RC= [xxx] REASON= [yyy]

Explanation:  An attempt to read the HSM log data set failed with the specified return and reason code.

System action:  The request is attempted up to twice, as necessary. If the third attempt fails, HSM log analysis terminates.

User response:  This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

Note:  There are multiple instances of this message ID number.

KDFDHSML  LOGY OPEN FAILED, DSN= [dsname], RC= [xxx] REASON= [yyy]

Explanation:  An attempt to open the HSM log data set failed with the specified return and reason code.

System action:  The request is attempted up to twice, as necessary. If the third attempt fails, HSM log analysis terminates.

User response:  This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

Note:  There are multiple instances of this message ID number.

KDFDHSML  LOGY CLOSE FAILED, DSN= [dsname], RC= [xxx] REASON= [yyy]

Explanation:  An attempt to close the HSM log data set failed with the specified return and reason code.

System action:  Normal operation continues.

User response:  This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

Note:  There are multiple instances of this message ID number.

KDFDHSML  SERVICE TASK ATTACH FAILED [nnn] - LOG ANALYSIS TERMINATED

Explanation:  An MVS ATTACH macro failed with the specified return code.

System action:  HSM Log analysis terminates.

User response:  This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

Note:  There are multiple instances of this message ID number.

KDFDHSML  STOP REQUEST [nnn] - LOG ANALYSIS TERMINATED

Explanation:  Termination of HSM log analysis completed with code ' nnn '.

System action:  Normal operation continues.

User response:  None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

Note:  There are multiple instances of this message ID number.
KDFDSCTE DATASET COLLECTOR TERM NOT DONE, NOT PREVIOUSLY INITIALIZED

**Explanation:** An error occurred during the initialization of the data set collector.

**System action:** None.

**User response:** Review the RKLVLOG log for previous error messages. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**Note:** There are multiple instances of this message ID number.

KDFDSCTE DATASET COLLECTOR STOPPED.
SUCCESSFUL COUNT= [count]
FAILURE COUNT=[failures]

**Explanation:** The data set collector ran successfully.

**System action:** None.

**User response:** None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**Note:** There are multiple instances of this message ID number.
Chapter 12. KDFH, KDFL, and KDFM Messages

This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have prefixes ranging from KDFH to KDFM.

KDFHS017 KDFDHSIN LOGY INVALID MEMBER NAME/GDG VERSION LENGTH

**Explanation:** An error was detected in the specification of the HSM LOGY data set. The length of the member name of the persistent data store or the GDG version is either zero bytes or greater than eight bytes.

**System action:** HSM log analysis does not initialize.

**User response:** Check the specification in member KDFDHSIN of the RKANPAR data set. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFHS018 KDFDHSIN LOGYDSPACESIZE VALUE SPECIFIED EXCEEDS MAXIMUM ALLOWABLE SIZE, USING INSTALLATION DEFAULT.

**Explanation:** An error was detected in the specification of the LOGYDSPACESIZE parameter which defines the maximum size of the data space used to contain information collected from the HSM LOGY data set. This parameter is specified in kilobytes. The minimum allowable value is 0 and the maximum is 2097152. If zero is specified, the installation default is used. At the time of this writing, the IBM-defined default maximum is 239 4K-blocks or 956K bytes. Be aware that this value may be overridden in the IEFUSI installation exit where it is specified as a number of 4K blocks. This error is written to the ITMS:Engine log file, RKLVLOG.

**System action:** The installation default size (as described above) is used.

**User response:** Adjust the size of the LOGYDSPACESIZE parameter in RKANPAR member KDFDHSIN to a value from zero to 2097152.

KDFL086E [detecting_module_name]: REQUEST FOR HISTORICAL DATA FAILED - [reason]

**Explanation:** An attempt to obtain historical data from the Persistent Data Store failed for the reason indicated by [reason].

**System action:** Processing continues, however historical data is not returned for the request.

**User response:** Examine the Tivoli Enterprise Monitoring Server RKPDLOG output file to ensure that at least one Persistent Data Store data set is available for recording for the RKDFDSA and/or RKDFDSB PDS groups. If [reason] indicates an internal error, contact IBM Software Support.

KDFL087E [module_name] FETCH FAILED FOR [table]; RC= [return_code] -- DATA RETRIEVAL FROM PDS TERMINATING

**Explanation:** This message indicates that an internal error has occurred. In retrieving historical data from the Persistent Data Store, the fetch routine in module [module_name] returned with a non-zero return code indicated in [return_code].

**System action:** The request for historical data is terminated.

**User response:** Contact IBM Software Support.

KDFL089E [module_name] HISTORICAL DATA FETCHED IS PAST RANGE; TIME REQUESTED = hhmmdd, TIME RETURNED = hhmmss

**Explanation:** Module [module_name] can find no qualifying data for the historical request.

**System action:** Normal processing continues, but no data is returned.

**User response:** None.
KDFL089I  [detecting_module_name]:
HISTORICAL DATA FETCHED IS PAST RANGE; DATE REQUESTED =
[ date_req ], TIME REQUESTED =
[ time_req ], DATE RETURNED =
[ date_ret ], TIME RETURNED =
[ time_ret ]

Explanation: An attempt to retrieve VTS historical data was unsuccessful because the date and time requested was earlier than the oldest historical record in the PDS.

System action: Processing continues, however VTS historical data is not returned for the current request.

User response: Examine the Tivoli Enterprise Monitoring Server RKPDLOG output file to ensure that the Persistent Data Store data set is available for the RKDFDSA PDS group, and that VTS historical data is being recorded.

KDFL097E  [detecting_module_name]: REQUEST FOR HISTORICAL DATA FAILED -
[ reason ]

Explanation: An attempt to obtain application historical data from the Persistent Data Store failed for the reason indicated by [ reason ].

System action: Processing continues, however application historical data is not returned for the current request.

User response: Examine the Tivoli Enterprise Monitoring Server RKPDLOG output file to ensure that the Persistent Data Store data set is available for the RKDFDSA PDS group, and that application historical data has been recorded. If [ reason ] indicates an internal error, contact IBM Software Support.

KDFL098E  KDFLAPPL: FETCH FAILED FOR APPL TABLE; TC= [rc ] -- DATA RETRIEVAL FROM PDS TERMINATING

Explanation: In retrieving historical application data from the Persistent Data Store, the fetch routine of the persistent data store returned with a non-zero return code indicated in rc . Possible values for reason include:

x'ff'    Invalid DFPDSTBL address passed.
x'fe'    DFPDWSWA not found.
x'fd'    Error obtaining the vector table of the persistent data store.

For any of these errors, contact IBM Software Support.

System action: Volume and data set information for this application is not returned to the requesting panel.

User response: Contact IBM Software Support.

KDFL100I  KDFLAPPL: HISTORICAL DATA FETCHED IS PAST RANGE; DATE REQUESTED = [mm/dd/yy], TIME REQUESTED = [hhmdd], DATE RETURNED = [mm/dd/yy], TIME RETURNED = [ hhmmss]

Explanation: No qualifying data can be found for the historical request.

System action: Normal processing data is returned.

User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFL109E  [module name]: GET PARM FOR [name] FAILED

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL110E  [module name]: PROBLEM WITH INDEX OR DLINK PARM

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL111E  [module name]: PUT PARM FOR JVAL FAILED

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL112E  [module name]: SRB DRIVER FAILED, RC = [rc]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KDFL113I** [module name]: CLEANUP STARTING FOR JOB

**Explanation:** Application cleanup has begun.

**System action:** Tivoli OMEGAMON XE for Storage continues.

**User response:** None.

**KDFL114I** [module name]: [area] FREED FOR JOB [jobname]

**Explanation:** The "collection work area" is released as part of application cleanup.

**System action:** Tivoli OMEGAMON XE for Storage continues.

**User response:** None.

**KDFL115E** [module name]: DFREF: REFRESH [member] FAILED, [reason]

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KDFL116E** [module name]: DFREF: INPUT LENGTH TOO GREAT

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KDFL117E** [module name]: DFREF: INVALID INPUT

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**KDFL118E** [module name]: DFREF: NO OPERANDS SPECIFIED

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KDFL120E** PSW AT TIME OF ERROR [psw] ILC [ilc] INTC [intcode]

**Explanation:** An abend has occurred during OMEGAMON HSM MCDS analysis.

**System action:** Processing continues, however HSM MCDS analysis is ended.

**User response:** Examine the Tivoli Enterprise Monitoring Server RKPDLOG, JESMSG, and SYSMSG output files to determine the nature of the abend. Contact IBM Software Support.

**KDFL121E** GPR [register_contents]

**Explanation:** This message follows KDFL120E when an abend occurs during OMEGAMON HSM MCDS analysis.

**System action:** Termination continues.

**User response:** None. Informational message only.

**KDFL143E** [module name]: KDFDSCIN FAILURE IN ATTEMPT TO INITIALIZE COLLECTOR

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KDFL144E** [module name]: DSNAME INDEX SPECIFIED BUT NONE FOUND

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KDFL145E • KDFL164E

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL145E [module name]: PDS INDEX OVERFLOW DETECTED
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL146E [module name]: HISTORICAL/TREND SQL REQUEST ERROR
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL147W [module name]: SQL REQUEST INDEX IS NOT SUPPORTED
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL148E [module name]: KDFXRPRRT REQUEST ERROR SS RC=ss-return-code DF RC=df-return-code
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL149E [module name]: KDFXRPRRT HAD RC=0 BUT NO BUFFER POINTERS
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL160E [module name]: INVALID INDEX TABLE COMBINATION
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL162W [module name]: IGWFAMS FAILED, RC = [return-code] REASON = [reason-code], PROBLEM = [problem]
Explanation: [problem] might be missing. This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL163E [module name]: INDEX OR DLINK REQUIRED; BAD INDEX DSN: [dataset-name]
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KDFL164E [module name]: ENTRY_TYPE INVALID
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KDFL215E** UNABLE TO DISCOVER MCDS KEYS

**Explanation:** An error was encountered while attempting to process a multi-cluster MCDS.

**System action:** Processing continues, however HSM MCDS analysis is ended.

**User response:** Run an IDCAMS LISTCAT on the MCDS data set to ensure it is structurally sound. If the data set appears to be correctly formed, contact IBM Software Support.

---

**KDFL221E** PSW AT TIME OF ERROR [psw] ILC [ilc] INTC [intcode]

**Explanation:** An abend has occurred during OMEGAMON HSM MCDS analysis.

**System action:** Processing continues, however HSM MCDS analysis is ended.

**User response:** Examine the Tivoli Enterprise Monitoring Server RKPDLOG, JESMSG and SYSMSG output files to determine the nature of the abend. Contact IBM Software Support.

---

**KDFL222E** GPR [register_contents]

**Explanation:** This message follows KDFL221E when an abend occurs during OMEGAMON HSM MCDS analysis.

**System action:** Processing continues, however HSM MCDS analysis is ended.

**User response:** Examine the Tivoli Enterprise Monitoring Server RKPDLOG, JESMSG and SYSMSG output files to determine the nature of the abend. Contact IBM Software Support.

---

**KDFL222E** GPR [register_contents]

**Explanation:** This message follows KDFL221E when an abend occurs during OMEGAMON HSM MCDS analysis.

**System action:** Processing continues, however HSM MCDS analysis is ended.

**User response:** Examine the Tivoli Enterprise Monitoring Server RKPDLOG, JESMSG and SYSMSG output files to determine the nature of the abend. Contact IBM Software Support.

---

**KDFLAU01** INITIALIZATION OF FORM TABLE IN PROGRESS

**Explanation:** This message is written to the Tivoli Enterprise Monitoring Server Engine log data set during product initialization, and indicates that initial loading of the form authorization table is in progress.

**System action:** Table initialization continues.

**User response:** None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

**KDFLAU02** INITIALIZATION OF FORM TABLE IS COMPLETE

**Explanation:** This message is written to the Tivoli Enterprise Monitoring Server Engine log data set during product initialization, and indicates that initialization of the form authorization table has completed successfully.

**System action:** The table is initialized.

**User response:** None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

**KDFLAU03** LOADING OF FORM TABLE IN PROGRESS

**Explanation:** This message is written to the Tivoli Enterprise Monitoring Server Engine log data set during product initialization, and indicates that loading of the form authorization table is being loaded into virtual storage.

**System action:** The table loads into virtual storage.

**User response:** None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

**KDFLAU04** LOADING OF FORM TABLE IS COMPLETE

**Explanation:** This message is written to the Tivoli Enterprise Monitoring Server Engine log data set during product initialization, and indicates that loading of the form authorization table has completed successfully.

**System action:** The table is loaded.

**User response:** None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

**KDFLAU05** INITIALIZATION OF USER TABLE IN PROGRESS

**Explanation:** This message is written to the Tivoli Enterprise Monitoring Server Engine log data set during product initialization, and indicates that the user authorization table is being initialized.

**System action:** Table initialization continues.

**User response:** None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

**KDFLAU06** INITIALIZATION OF USER TABLE IS COMPLETE

**Explanation:** This message is written to the Tivoli Enterprise Monitoring Server Engine log data set during product initialization, and indicates that initialization of the user authorization table has completed successfully.
**KDFLAU07 • KDFM1001E**

**System action:** The user authorization table is initialized.

**User response:** None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

**KDFLAU07  LOADING OF USER TABLE IN PROGRESS**

**Explanation:** This message is written to the Tivoli Enterprise Monitoring Server Engine log data set during product initialization, and indicates that loading of the user authorization table is in progress.

**System action:** The table loads into virtual storage.

**User response:** None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

**KDFLAU08  LOADING OF USER TABLE IS COMPLETE**

**Explanation:** This message is written to the Tivoli Enterprise Monitoring Server Engine log data set during product initialization, and indicates that loading of the user authorization table has completed successfully.

**System action:** The user authorization table is loaded.

**User response:** None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

---

**KDFM1000E** Failure writing to IPC queue for SQL([string]) processing

**ServerID([server_name])**

**Explanation:** An attempt to send the SQL statement [string] to the [server_name] Tivoli Enterprise Monitoring Server failed with the codes indicated in message KDFMSQ02E (which follows).

**System action:** The attempt to communicate with the remote system is canceled.

**User response:** Contact IBM Software Support.

---

**KDFM1001E** ipcStatus=[status] for

**Thread([thread_id]) using writeQueue([queue_id]), message([text])**

**Explanation:** This message follows KDFMSQ01E. See the explanation of that message for details.

**System action:** The attempt to communicate with the remote system is canceled.

**User response:** Contact IBM Software Support.
Chapter 13. KDFS and KDFV Messages

This section lists Tivoli OMEGAMON XE for Storage on z/OS messages that have prefixes ranging from KDFS to KDFV.

KDFS000I REQUESTED MESSAGE [message_id] IS NOT DEFINED

Explanation: An attempt was made to issue the message number displayed; however, that message has not been defined to the message interface.

System action: Processing continues as if the message had been issued.

User response: Contact IBM Software Support. The destination is the MVS system console.

KDFS001I DATASET I/O COLLECTION VERSION [version_number] INITIALIZATION COMPLETE

Explanation: The data set I/O collector version_number has successfully initialized and is ready to monitor devices.

System action: Processing continues.

User response: None. This message is informational. The destination is the MVS system console.

KDFS0028I CANDLE DATASET I/O COLLECTOR RESOURCE MANAGER CLEANUP IN PROGRESS

Explanation: The collector has terminated abnormally, and the resource manager routine has been called to clean up the environment.

System action: None.

User response: None. This message is informational. There should be other messages issued previously that require action. If there are no previous messages, contact IBM Software Support.

KDFS002W DATASET I/O COLLECTION VERSION [version_number] INITIALIZATION UNSUCCESSFUL.

Explanation: An attempt to initialize the data set I/O collector version_number was not successful.

System action: The data set I/O collector terminates. Data set I/O data is not available.

User response: There should be a message issued prior to this. Follow the instructions for the previous message. The destination is the MVS system console.

KDFS003A SVC DUMP TAKEN FOR CANDLE DATASET I/O COLLECTION

Explanation: The data set I/O collector has abended and an SVC dump has been taken.

System action: The data set I/O collector now attempts an orderly termination when the dump is complete.

User response: Contact IBM Software Support. Do not delete the dump. The destination is the MVS system console.

KDFS004I CANDLE DATASET I/O SUBFUNCTION [function_id] RC=[return_code]

Explanation: An attempt to start the subfunction displayed was unsuccessful, and displayed the return code indicated in the message.

System action: Initialization continues; however, some functionality is lost.

User response: Contact IBM Software Support. The destination is the MVS system console.

KDFS005W CANDLE DATASET I/O REQUIRES MVS SUPPORT FOR SCOPE=COMMON DATA SPACES

Explanation: The data set I/O collector must be run on a level of MVS/ESA that provides support for SCOPE=COMMON data spaces.

System action: Initialization is terminated.

User response: Do not attempt to run the data set I/O collector on a level of MVS that does not meet the minimum requirement. The destination is the MVS system console.

KDFS006W ONLY ONE CANDLE DATASET I/O COLLECTOR MAY RUN ON THE SYSTEM AT A TIME

Explanation: The data set I/O collector has detected another Candle data set I/O collector to be active on the system.

System action: Initialization of this collector is terminated.

User response: Do not attempt to start a second collector. Make sure that only one data set I/O collector (subsystem) is installed.

KDFS007W CANDLE DATASET I/O module UNABLE TO INSTALL I/O CONFIG EXIT, RC=[return_code]
KDFS008A  •  KDFS014A

Explanation: The data set I/O collector module specified attempted to install an I/O configuration exit. The attempt failed with the return code displayed.

System action: Initialization of the collector terminates.

User response: See the IBM manual, MVS/ESA Planning: Dynamic I/O Configuration for an explanation of the displayed return code. If the return code as documented for the CONFCHG service indicates a product problem, contact IBM Software Support. Otherwise, correct the problem with the system.

KDFS008A  CANDLE DATASET I/O UNABLE TO OBTAIN PRIVATE STORAGE

Explanation: An attempt to obtain private virtual storage failed.

System action: The collector terminates.

User response: Remove any constraints upon the region available. Because almost all storage usage is above the 16-megabyte line, this problem is likely the result of an artificial constraint on storage availability. The destination is the MVS system console.

KDFS009A  CANDLE DATASET I/O [module] UNABLE TO VALIDATE CONTROL BLOCK [control_block]

Explanation: An attempt to validate the MVS control block specified from within the module failed.

System action: Depending upon the control block involved, either the collector terminates or continues processing, bypassing the use of the control block specified in the message.

User response: Contact IBM Software Support. The destination is the MVS system console.


Explanation: An attempt by the module specified to obtain the indicated amount of storage_type virtual storage failed with the return code displayed.

System action: The collector terminates.

User response: Make sure that the installation has not artificially constrained the availability of the type of virtual storage in question, either private or common. If storage is not artificially constrained, contact IBM Software Support. The destination is the MVS system console.

KDFS011A  CANDLE DATASET I/O [module] UNABLE TO FIX [number] PAGES OF STORAGE, RC=[return_code]

Explanation: An attempt by the module specified to fix number of pages of virtual storage failed with a the return code displayed.

System action: The collector terminates.

User response: If this is not a result of an installation problem, contact IBM Software Support. The destination is the MVS system console.

KDFS012A  CANDLE DATASET I/O [module] INTERNAL VALIDATION ERROR [number]

Explanation: Routine module has determined that the product has not been installed correctly. The number indicates the source of the problem.

System action: The collector does not initialize.

User response: Check the linkage editor message for module from the APPLY of the product or maintenance for error messages. If the return code is zero (0), contact IBM Software Support. The destination is the MVS system console.

KDFS013I  CANDLE DATASET I/O VER [version_number] TERMINATING

Explanation: The collector is terminating.

System action: The collector terminates. I/O statistics is not collected.

User response: If this is a result of a stop command, then no action is necessary. Otherwise, gather documentation, including any previous messages, and contact IBM Software Support, if necessary. The destination is the MVS system console.

KDFS014A  CANDLE DATASET I/O [module] SERVICE REQUEST [request] FAILURE, RC=[return_code]

Explanation: The module specified requested a service of either MVS or the subsystem, and the request failed with the return code displayed.

System action: The collector terminates if the request is critical.

User response: If the failure was for an MVS service, ensure that it was not the result of an installation problem. If necessary, contact IBM Software Support. The destination is the MVS system console.
KDFS015A  CANDLE DATASET I/O [module]  DEVICE TABLE FULL

Explanation: The module specified attempted to add a device type to an internal table, but the table had no free entries.

System action: The collector continues; however, data is not collected for all devices.

User response: Contact IBM Software Support. The destination is the MVS system console.

KDFS016I  CANDLE DATASET I/O - NO DEVICE TYPES TO MONITOR

Explanation: During initialization the collector found that there were no device types installed that it was able to monitor. It can monitor 3375, 3380, 3390, and future DASD devices.

System action: The collector terminates.

User response: If there are device types installed that the collector should monitor, contact IBM Software Support. Otherwise, no action is required.

KDFS019A  CANDLE DATASET I/O [module]  ATTACH OF [ task_id] FAILED, RC=[return_code]

Explanation: An attempt by module to attach the MVS subtask specified failed with the return code displayed.

System action: The collector terminates.

User response: Refer to IBM Application Development Reference: Services for Authorized Assembler Language Programs for an explanation of the return code. If the return code does not indicate an installation problem, contact IBM Software Support. The destination is the MVS system console.

KDFS020I  CANDLE DATASET I/O [module]  SUBTASK [ task_id] FAILED - STOPPING

Explanation: A prior attempt to restart subtask task_id by routine module was unsuccessful.

System action: The collector terminates.

User response: Contact IBM Software Support. The destination is the MVS system console.

KDFS021I  CANDLE DATASET I/O [module]  ROUTINE [ routine] FAILED [return_code] [ reason_code]

Explanation: The module specified called routine, and the called routine returned with the return and reason codes displayed.

System action: The collector attempts to continue functioning.

User response: Review the appropriate user response:

OMEGAMON II for SMS
This is an informational message only.

All other products
Contact IBM Software Support.

The destination is the MVS system console.

KDFS024A  CANDLE DATASET I/O [module] [ service] INSTALLATION FAILED

Explanation: An attempt by routine module to install the service specified was not successful.

System action: The collector terminates.

User response: Contact IBM Software Support. The destination is the MVS system console.

KDFS025W  CANDLE DATASET I/O [module]  RELEASE OF [bytes] [storage] RC=[ return_code]

Explanation: An attempt by routine module to release the number of bytes of virtual storage specified failed with the return code displayed.

System action: The collector continues processing normally.

User response: Contact IBM Software Support. The destination is the MVS system console.
KDFS026W  CANDLE DATASET I/O [module] UNABLE TO FREE [number] PAGES OF STORAGE, RC=[return_code ]

Explanation:  An attempt by routine module to free the specified number of pages of virtual storage was not successful. The return code from the PGSER service displayed.

System action:  The collector continues processing normally.

User response:  Refer to IBM Application Development Reference: Services for Authorized Assembler Language Programs for an explanation of the return code. Contact IBM Software Support. The destination is the MVS system console.

KDFS027W  CANDLE DATASET I/O [module] UCBLOOK RC=[return_code], DEVICE NUMBER [device]

Explanation:  An invocation of the UCBLOOK service by routine module resulted in the return code displayed for device number device .

System action:  The collector continues processing; however, there is no data available for the specified device.

User response:  See the IBM MVS/ESA Planning: Dynamic I/O Configuration manual for an explanation of the return code. Contact IBM Software Support. The destination is the MVS system console.

KDFS028  CANDLE DATASET I/O COLLECTOR RESOURCE MANAGER CLEANUP IN PROGRESS

Explanation:  The collector has terminated abnormally, and the resource manager routine has been called to clean up the environment.

System action:  None.

User response:  None. This is an informational message only. There should be other messages issued previously that require action. If there are no previous messages, contact IBM Software Support. The destination is the MVS system console.

KDFS029A  UNABLE TO ATTACH MIGRATION SUBTASK, RC=[return_code ]

Explanation:  The ATTACH macro used to create the migration subtask failed. The return code displayed represents the contents of register 15 passed back by the ATTACH macro.

System action:  The collector terminates.

User response:  Refer to the IBM Application Development Reference: Services for Authorized Assembler Language Programs for an explanation of the return code. If problems persist, contact IBM Software Support. The destination is the MVS system console.

KDFS030A  MIGRATION SUBTASK ABEND, CODE=[abend_code]

Explanation:  The subtask used to arrange job and data set information has abnormally terminated with the displayed completion code.

System action:  The collector terminates.

User response:  Inspect the console log for messages that can provide information as to why the ABEND occurred. If problems persist, contact IBM Software Support. The destination is the MVS system console.

KDFS031A  CVAFSEQ ERROR READING VTOC: RC=[return_code], CVSTAT=[xx]

Explanation:  A volume table of contents cannot be read using the CVAFSEQ macro. The volume for which the VTOC failure occurred is identified in a separate message displayed on the system console.

System action:  Some data set names cannot be resolved for the volume's I/O activity.

User response:  Consult the IBM MVS/DFP System Programming Reference manual for an explanation of the return code and CVSTAT fields returned by CVAFSEQ. If problems persist, contact IBM Software Support. The destination is the MVS system console.

KDFS032A  UNABLE TO ACQUIRE VTOC STORAGE: LENGTH=[bytes ], RC=[return_code ]

Explanation:  The migration subtask was unable to allocate the specified number of bytes of private storage for its CVAF buffers. The return code displayed is provided by the STORAGE macro.

System action:  The collector terminates.

User response:  Increase the subsystem region size.

The destination is the MVS system console.

KDFS033I  UNABLE TO READ VOLUME TABLE OF CONTENTS FOR [volser ]

Explanation:  The migration subtask was unable to read the VTOC of the displayed volser . An accompanying console message is generated describing the precise cause of the error.

System action:  Some data set names cannot be resolved for the volume's I/O activity.

User response:  Locate the diagnostic message that indicates the cause of the VTOC error and take any necessary corrective action. If problems persist, contact...
IBM Software Support. The destination is the MVS system console.

**KDFS034E**  **CELL POOL FAILURE FOR SERVICE**

[service], RC=[return_code]

**Explanation:** The cell pool service specified failed with the return code displayed. The migrator subtask uses callable cell pool services to create its internal table entries.

**System action:** The collector terminates.

**User response:** Contact IBM Software Support. The destination is the MVS system console.

**KDFS034I**  **CSRP PARMS P1 - P5:**

[p1_value p2_value p3_value p4_value p5_value]

CSRP PARMS P6 - P10:

[p6_value p7_value p8_value p9_value p10_value]

**Explanation:** A call to cell pool services has failed. Look for a previous KDFS034E message. Two of these messages will be issued following the KDFS034E message. Each displays five of the input parameters to the CSRP call. A dump will also be taken for this error.

Only one set of messages and one dump will occur, regardless of how many errors are encountered.

**System action:** The collector terminates.

**User response:** Contact IBM Software Support.

**KDFS035I**  **UNABLE TO READ FORMAT 4 DSCB**

WITH LSPACE, RC=[return_code]

**Explanation:** The LSPACE macro used by the migrator subtask has failed with the return code displayed. The volume for which the VTOC failure occurred is identified in a separate message displayed on the system console.

**System action:** Some data set names cannot be resolved for the volume’s I/O activity.

**User response:** Consult the IBM MVS/DFP System Programming Reference manual for an explanation of the return code and CVSTAT fields returned by CVAFSEQ. If problems persist, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS036I**  **UNABLE TO OBTAIN DEVICE CELL, DATA LOST**

**Explanation:** The migrator subtask has run out of cell pool storage to record data set I/O information.

**System action:** Some information about data set I/O activity is lost.

**User response:** Ensure that the archive subtask is running in the subsystem address space. If problems persist, contact IBM Software Support. The destination is the MVS system console.

**KDFS034E**  **INSUFFICIENT STORAGE TO READ VTOC FOR VOLUME [ volser]**

**Explanation:** The migrator subtask was unable to fit the VTOC for the volume specified in the space it had allocated.

**System action:** The collector terminates.

**User response:** Contact IBM Software Support. The destination is the MVS system console.

**KDFS040W**  **KDFS040W - KDFSPDEV HANG DETECTED; VOLUME=vvvvv**

**Explanation:** While collecting space and fragmentation information, OMEGAMON XE for Storage was unable to complete an LSPACE call for volume vvvvv in less than 15 seconds. This might indicate a problem with the volume or might be the result of a high rate of contention for the volume's VTOC.

**System action:** Processing for the specified volume is bypassed for this collection interval.

**User response:** Consider the amount of contention for this volume at the time the message occurred. If this does not explain the problem then you may wish to review your EREP reports and check other sources to make sure the volume is not under a hardware reserve or otherwise improperly enqueued. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS100E**  **ATTACH FAILED FOR KDFSHSMM, RC=[rc]**

**Explanation:** An ATTACH macro failed with the indicated return code.

**System action:** HSM MCDS analysis is unavailable.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS101E**  **MCDS ANALYSIS HAS TERMINATED**

**Explanation:** The HSM MCDS analysis feature terminated.

**System action:** None.

**User response:** None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS102E**  **ACB ACQUISITION FAILED, COMPLETION CODE [compl_code ]**

**Explanation:** A request for an ACB failed with the indicated completion code.

**System action:** The HSM MCDS analysis feature is unavailable.
**KDFS103E • KDFS104E**

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**Explanation:** A request to allocate the HSM MCDS failed with the indicated return code.

**System action:** The HSM MCDS analysis feature is unavailable.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS104E OPEN FAILED FOR MIGRATION CONTROL DATASET**

**Explanation:** A request to open the HSM MCDS failed.

**System action:** The HSM MCDS analysis feature is unavailable.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS105E ERROR IN VSAM START REQUEST**

**Explanation:** A request to browse the HSM MCDS failed.

**System action:** The HSM MCDS analysis feature terminates.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS106E ERROR IN TERMINATION REQUEST**

**Explanation:** A request to close and deallocate the HSM MCDS failed.

**System action:** HSM MCDS processing continues.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS107E ERROR IN VSAM [cccc] REQUEST, RC= [ rc], REASON= [reason_code]**

**Explanation:** A VSAM POINT or GET request failed with the indicated return and reason codes.

**System action:** HSM MCDS processing continues.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS108E SAVEAREA STACK EXHAUSTED**

**Explanation:** An internal error occurred.

**System action:** The HSM MCDS analysis feature is unavailable.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS109E MCDS SUBTASK ABEND, COMPLETION CODE [compl_code ]**

**Explanation:** The HSM MCDS analysis subtask abended with the indicated completion code.

**System action:** The HSM MCDS analysis feature is unavailable.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG. See the description of message KDFHS019 in the troubleshooting guide for the product. That description explains the source of this message and describes a workaround.

**KDFS110E INVALID POST CODE RECEIVED, CODE= [post_code]**

**Explanation:** The indicated invalid post code was received from the HSM MCDS analysis subtask.

**System action:** The HSM MCDS analysis feature terminates.

**User response:** Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS111E BLDL for KDFSHSMM FAILED, RC= [rc]**

**Explanation:** Module KDFSHSMM is not available.

**System action:** The MCDS analysis feature is not available.

**User response:** Verify the RKANMODL concatenation. If in doubt, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

**KDFS14A CANDLE DATASET I/O module SERVICE REQUEST request FAILURE, RC=return_code**

**Explanation:** The module specified requested a service of either MVS or the subsystem, and the request failed with the return code displayed.

**System action:** The collector terminates if the request is critical.

**User response:** If the failure was for an MVS service, ensure that it was not the result of an installation
Chapter 13. KDFS and KDFV Messages

KDFS15A  CANDLE DATASET I/O [module] DEVICE TABLE FULL
Explanation: The module specified attempted to add a device type to an internal table, but the table had no free entries.
System action: The collector continues; however, data is not collected for all devices.
User response: Contact IBM Software Support.

KDFS17A  CANDLE DATASET I/O DSPSERV [number] FAILED, [return_code]- [reason_code]
Explanation: An attempt to create the data space number specified failed. The DSPSERV request returned the return_code and reason_code.
System action: The collector does not initialize.
User response: Refer to the IBM Application Development Reference: Services for Authorized Assembler Language Programs for explanations of the return and reason codes. If the return and reason codes do not indicate a problem in your installation, contact IBM Software Support.

KDFS18A  CANDLE DATASET I/O ALESERV [number] FAILED, RC=[return_code]
Explanation: An attempt to add an entry to an access list for data space number failed. The return code from ALESERV was displayed.
System action: The collector does not initialize.
User response: Refer to IBM Application Development Reference: Services for Authorized Assembler Language Programs for an explanation of the return code. If the return code does not indicate a problem in your installation, contact IBM Software Support.

KDFS201E  STORAGE OBTAIN REQUEST FAILED
Explanation: An MVS STORAGE request failed.
System action: The HSM MCDS analysis feature terminates.
User response: Restart the Tivoli Enterprise Monitoring Server with a larger region size. If the error persists, contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS202E  DSPSERV CREATE FAILED, RC=[rc]
Explanation: An MVS DSPSERV TYPE=CREATE request failed with the indicated return code.
System action: The HSM MCDS analysis feature terminates.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS203E  ALESERV REQUEST FAILED, RC=[rc]
Explanation: An MVS ALESERV request failed with the indicated return code.
System action: The HSM MCDS analysis feature terminates.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS204E  STIMERM REQUEST FAILED, RC=[rc]
Explanation: An MVS STIMERM request failed with the indicated return code.
System action: The HSM MCDS analysis feature terminates.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS205I  MCDS ANALYSIS SUBTASK STARTING QUIESCE
Explanation: The HSM MCDS analysis feature is being shut down.
System action: HSM MCDS analysis terminates.
User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS206I  MCDS ANALYSIS SUBTASK HAS TERMINATED
Explanation: The MCDS analysis feature has terminated.
System action: Normal operation continues.
User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.
KDFS207I  •  KDFS220E

KDFS207I  MCDS DATASPACE LOCATED AT [address], LENGTH [len]
Explanation: The HSM MCDS data space with the indicated length was created at the indicated address.
System action: The HSM MCDS analysis feature proceeds.
User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS208I  MCDS DATASPACE ID= [id], STOKEN= [token]
Explanation: These are the generated names of the HSM MCDS data space.
System action: The HSM MCDS analysis feature proceeds.
User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS209E  INTERNAL LOGIC ERROR
Explanation: An internal error occurred.
System action: The HSM MCDS analysis feature terminates.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS210E  MCDS DATASPACE IS TOO SMALL
Explanation: The HSM MCDS data space is too small for general use. For example, an error condition occurs when the specification of the MCDSDSPACESIZE parameter is exceeded. This parameter defines the maximum size of the data space used to contain information collected from the HSM MCDS data set. This parameter is specified in kilobytes. The minimum allowable value is 0 and the maximum is 2097152. If zero is specified, the installation default is used. At the time of this writing, the IBM-defined default maximum is 239 4K-blocks or 956K bytes. Be aware that this value may be overridden in the IEFUSI installation exit where it is specified as a number of 4K blocks. This error is written to the ITMS:Engine log file, RKLVLOG.
System action: The HSM MCDS analysis feature terminates.
User response: Increase the MCDSDSPACESIZE parameter in the KDFDHSIN member of the RKANPAR data set and recycle the Tivoli Enterprise Monitoring Server. Using the Configuration Tool to specify again ensures correct parameter input. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS211E  FAILURE IN ACQUISITION OF MCDS DSN, RC= [rc]
Explanation: Locating the data set name of the HSM MCDS failed with the indicated return code.
System action: The HSM MCDS analysis feature terminates.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS212E  INVALID DATA DETECTED FOR [dsname]
Explanation: An invalid HSM MCDS record was detected.
System action: The HSM MCDS analysis feature continues.
User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS213E  SVC DUMP WILL BE REQUESTED
Explanation: HSM MCDS analysis abended and requested a dump.
System action: The HSM MCDS analysis feature terminates.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS214E  SDUMPX REQUEST FAILED, RC= [rc]
Explanation: An MVS SDUMPX request failed with the indicated return code.
System action: The HSM MCDS analysis feature continues to terminate.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KDFS220E  MCDS SUBTASK ABEND, COMPLETION CODE S01D
Explanation: The HSM MCDS analysis subtask abended with the indicated completion code.
System action: The HSM MCDS analysis feature is unavailable.
User response: Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG. See the description of message KDFHS019 in the troubleshooting guide for the product. That description explains the source of this message and describes a workaround.
### KDFSHL00 • KDFSHSML

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KDFSHL00</td>
<td>ABEND [abend_code] AVERTED IN RC++ PACKAGE</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>Error recovery processing detected that the specified abend occurred during processing.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Error recovery is started.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Software Support. The destination is the MVS system console.</td>
</tr>
</tbody>
</table>

| KDFSHL01 | ABEND [abend_code] AVERTED IN SESSION INITIALIZATION |
| **Explanation:** | Error recovery processing detected that the specified abend occurred during processing. |
| **System action:** | Error recovery is started. |
| **User response:** | Contact IBM Software Support. The destination is the MVS system console. |

| KDFSHL02 | ABEND [abend_code] AVERTED IN SESSION DISPATCHER |
| **Explanation:** | Error recovery processing detected that the specified abend occurred during processing. |
| **System action:** | Error recovery is started. |
| **User response:** | Contact IBM Software Support. The destination is the MVS system console. |

| KDFSHL03 | ABEND [abend_code] AVERTED IN SESSION TERMINATION |
| **Explanation:** | Error recovery processing detected that the specified abend occurred during processing. |
| **System action:** | Error recovery is started. |
| **User response:** | Contact IBM Software Support. The destination is the MVS system console. |

| KDFSHL04 | ABEND [abend_code] AVERTED IN CREATING SESSION ENVIRONMENT |
| **Explanation:** | Error recovery processing detected that the specified abend occurred during processing. |
| **System action:** | Error recovery is started. |
| **User response:** | Contact IBM Software Support. The destination is the MVS system console. |

| KDFSHL05 | ABEND [abend_code] AVERTED WHEN DESTROYING ENVIRONMENT |
| **Explanation:** | Error recovery processing detected that the specified abend occurred during processing. |
| **System action:** | Error recovery is started. |
| **User response:** | Contact IBM Software Support. The destination is the MVS system console. |

### KDFSHSML

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KDFSHSML</td>
<td>HSMLOG DATASPACE AT CAPACITY - [nnnnnnnn] BLOCKS</td>
</tr>
<tr>
<td><strong>Explanation:</strong></td>
<td>The HSM log analysis data space is full.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>The data space is rebuilt.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Consider increasing the site default data space size. The destination is the MVS system console.</td>
</tr>
<tr>
<td><strong>Note:</strong></td>
<td>There are multiple instances of this message ID number.</td>
</tr>
</tbody>
</table>

| KDFSHSML  | MESSAGE ARC [nnnnnn] FORMAT ERROR DETECTED - TEXT: |
| **Explanation:** | An error occurred while parsing the specified HSM log message. |
| **System action:** | The message is bypassed. |
| **User response:** | This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG. |
| **Note:** | There are multiple instances of this message ID number. |

| KDFSHSML  | MESSAGE CONTROL TABLE ERROR DETECTED - [XXXXXXXX ] |
| **Explanation:** | This message indicates that an internal error has occurred. |
| **System action:** | The HSM log analysis data space is rebuilt. |
| **User response:** | This error should not occur. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG. |
| **Note:** | There are multiple instances of this message ID number. |

| KDFSHSML  | HSMLOG PROCESSING BYPASSED DUE TO ERROR |
| **Explanation:** | A GET request from the HSM log data set has failed. |
| **System action:** | The request is attempted up to twice, as necessary. If the third attempt fails, HSM log analysis terminates. |
| **User response:** | This message indicates that an internal error has occurred. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG. |
| **Note:** | There are multiple instances of this message ID number. |
KDFSHSML • KDFV002I

KDFSHSML [macro] REQUEST - RC = [99999999 99999999]

Explanation: A DSPSERV or ALESERV request failed.

System action: HSM log analysis terminates.

User response: This message indicates that an internal error has occurred. Contact IBM Software Support. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

Note: There are multiple instances of this message ID number.

KDFSHSML HSMLOG DATASPACE [XXXXXXXX] CREATED

Explanation: The HSM log analysis data space has been successfully created.

System action: HSM log analysis initialization continues.

User response: None. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

Note: There are multiple instances of this message ID number.

KDFSTR01 RC++ START - SESSION LIST AT [address]

Explanation: Informational message printed on the Tivoli Enterprise Monitoring Server Engine log data set. This message lists the address of the product anchor control block.

System action: None.

User response: None. This message is informational. The destination is the MVS system console.

KDFV001W CSVDY Nex FAILURE FOR [exit_name] EXIT, RC = [retcode], REASON CODE = [reascode]

Explanation: An error, indicated by [retcode] and [reascode], was returned from the CSVDY Nex DELETE routine while attempting to delete the specified OMEGAMON VTS monitoring SMF exit during termination processing.

System action: Termination continues, possibly with an OMEGAMON VTS monitoring SMF exit still in place.

User response: Refer to the publication z/OS Authorized Assembler Services Guide to determine the specific cause of the CSVDY Nex DELETE failure indicated by [retcode] and [reascode]. Leaving an OMEGAMON VTS monitoring SMF exit in place should not impact other processing, as the exits are designed to operate transparently should the Tivoli Enterprise Management Server address space terminate.
Chapter 14. KRC Messages

This section lists the OMEGAMON II for SMS messages that have the KRC prefix.

KRCXSY01 PRIMARY SERVER NOT FOUND IN PROFILE

Explanation: A server designated as the primary server cannot be found in the server's member of the profile. This message might indicate that the primary=YES statement in the profile has been removed or is syntactically incorrect.

System action: None.

User response: Verify that the server profile contains the primary=YES statement or correct any syntax problems with the statement. You cannot log on to OMEGAMON II unless you designate a primary server in the profile or specify a remote server ID.

KRCXSY02 RcPackage not found

Explanation: A global anchor cannot be found during product initialization. This indicates an internal problem with OMEGAMON II for SMS.

System action: None.

User response: Contact IBM Software Support.

KRCXSY03 SQL1 REQUEST SQL1_CreatePath SUCCESSFUL FOR [sssss ] SQL1 STATUS [ddd(xx)]

Explanation: This message informs you that you have successfully connected to server sssss.

System action: None.

User response: None.

KRCXSY04 SQL1 REQUEST [rrrrr] FAILED FOR [sssss] SQL1 STATUS [ddd(xx)]

Explanation: The server failed to respond to the specified request. This message might indicate that OMEGAMON II is experiencing problems connecting to the server.

System action: None.

User response: Check the availability of the server to which you are attempting to connect. Try to reconnect when the server becomes available using the Specify Systems for Cross-system Monitoring panel within an OMEGAMON II session.

KRCXSY05 COULD NOT CONNECT TO PRIMARY SERVER

Explanation: The Create_Path to the primary server failed. This message is preceded by a KRCXSY04 message when the Create_Path was issued.

System action: None.

User response: Check the availability of the primary server. The server might not have completed initialization or it might have abnormally ended. Restart the server if it has abended. You cannot log on to OMEGAMON II unless you designate a primary server in the profile or specify a remote server ID.


Explanation: This message displays the path string used to log on to a specified data server. This information is derived from the configuration data in the profile and is useful in determining server connection problems.

System action: None.

User response: None.
Chapter 15. KS3 Messages

This section lists the messages that Tivoli OMEGAMON XE for Storage on z/OS can generate. These messages have the KS3 prefix. The messages are associated with the product components, including the following features: Storage Toolkit, Dataset Attributes Database, and the launch feature for IBM TotalStorage Productivity Center.

**KS3A001I** DATASET ATTRIBUTE DATABASE INITIALIZED

Explanation: The Dataset Attribute Database function is starting.

System action: None.

User response: None. This is an informational message.

**KS3A005I** IMMEDIATE HALT REQUESTED FOR DATASET ATTRIBUTE DATABASE COLLECTION

Explanation: Dataset Attribute Database collection is stopping because a user or an operator request, the specified Endtime being reached, or an "This message indicates that an internal error has occurred".

System action: None.

User response: None. This is an informational message. Other messages might be displayed to indicate the specific reason for the immediate halt.

**KS3A006E** RECURSIVE IMMEDIATE HALT REQUEST

Explanation: An immediate halt request was made either by a user or an operator, however the previous immediate halt request is still being processed.

System action: The immediate halt request is ignored.

User response: Wait for other messages to indicate that collection has halted. If this message persists and collection does not halt, issue the S3DA TERMINATE operator command.

**KS3A007I** DATASET ATTRIBUTE DATABASE TERMINATION REQUESTED

Explanation: A Terminate request was made by an operator.

System action: The Dataset Attribute Database is released and processing is terminated.

User response: None. This is an informational message.

**KS3A008E** RECURSIVE TERMINATE REQUEST

Explanation: A Terminate request was made either by a user or an operator, however a previous Terminate request is still being processed.

System action: The terminate request is ignored.

User response: Wait for other messages to indicate that the Dataset Attribute Database function has terminated. If this message persists and the function does not terminate, contact IBM Software Support.

**KS3A009I** DATASET ATTRIBUTE DATABASE ENDED NORMALLY

Explanation: The Dataset Attribute Database function has ended.

System action: None.

User response: None. This is an informational message.

**KS3A010E** COLLECTION CONTROL SUBTASK ABENDED WITH [abend_code]

Explanation: The Dataset Attribute Database collection function has abended with the indicated code.

System action: The collection control subtask is terminated.


**KS3A011E** COLLECTION CONTROL SUBTASK TERMINATED WITH RC=[return_code]

Explanation: The Dataset Attribute Database collection function has terminated with the indicated return code.

System action: The collection control subtask is terminated.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, or the task JESMSG or SYSMSG logs to determine the cause of the error. Contact IBM Software Support.

**KS3A015E** COLLECTION CONTROL SUBTASK ATTACH FAILED WITH RC=[return_code]

Explanation: The creation of the Dataset Attribute Database collection control subtask failed with the...
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indicated ATTACH return code.

**System action:** The collection control subtask is not started.

**User response:** Examine other messages in the ITMS:Engine log, RKLWLOG, or the task JESMSG or SYSMSG logs to determine the cause of the error. Contact IBM Software Support.

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**KS3A016E** INVALID POST CODE RECEIVED: [post_code]

**Explanation:** The Dataset Attribute Database collection control subtask presented an internal completion code that is not valid.

**System action:** None.

**User response:** Examine other messages in the ITMS:Engine log, RKLWLOG, to determine the cause of the error. Contact IBM Software Support.

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**KS3A017I** DATASET ATTRIBUTE GROUPS TASK STARTED

**Explanation:** The Dataset Attribute Groups task is starting.

**System action:** None.

**User response:** None. This is an informational message.

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**KS3A018I** DATASET ATTRIBUTE GROUPS TASK ENDED

**Explanation:** The Dataset Attribute Groups task has ended.

**System action:** None

**User response:** None. This is an informational message.

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**KS3A019E** UNABLE TO LOCATE DAGM CONTROL BLOCK

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Dataset Attribute Groups summary table data is not returned for display at the Tivoli Enterprise Portal.

**User response:** Examine other messages in the ITMS:Engine log, RKLWLOG, to determine the cause of the error. Contact IBM Software Support.

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**KS3A020E** UNABLE TO ALLOCATE DATASET ATTRIBUTE GROUPS STORAGE

**Explanation:** This message indicates that an internal error has occurred. The Dataset Attribute Groups summary task was unable to allocate storage for a Dataset Attribute Group.

**System action:** Processing continues, however summary table data for the Dataset Attribute Group is not returned for display at the Tivoli Enterprise Portal.

**User response:** Examine other messages in the ITMS:Engine log, RKLWLOG, to determine the cause of the error. Contact IBM Software Support.

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**KS3A021E** DATASET ATTRIBUTE DATABASE COLLECTION TERMINATED

**Explanation:** The Dataset Attribute Database collection control task has terminated due to a previous error.

**System action:** Dataset Attribute Database processing is terminated and no data from it can be provided.

**User response:** Examine other messages in the ITMS:Engine log, RKLWLOG, to determine the cause of the error. Contact IBM Software Support.

---

**KS3A022E** UNABLE TO LOCATE/VALIDATE [control_block_id] CONTROL BLOCK

**Explanation:** This message indicates that an internal error has occurred.

**System action:** The Summary Table data requested is not returned for display at the Tivoli Enterprise Portal.

**User response:** Examine other messages in the ITMS:Engine log, RKLWLOG, to determine the cause of the error. Contact IBM Software Support.

---

**KS3A023E** INPUT PARAMETER LIST MISSING [parmlist_component]

**Explanation:** This message indicates that an internal error has occurred. The Dataset Attribute Database summary table interface was invoked with an invalid parameter list.

**System action:** The Summary Table data requested is not returned for display at the Tivoli Enterprise Portal.

**User response:** Examine other messages in the ITMS:Engine log, RKLWLOG, to determine the cause of the error. Contact IBM Software Support.

---

**KS3A024E** UNABLE TO LOCATE/DAGM CONTROL BLOCK

**Explanation:** This message indicates that an internal error has occurred. The Dataset Attribute Groups summary table interface was unable to allocate storage for its Bookmark area.

**System action:** The Summary Table data requested is not returned for display at the Tivoli Enterprise Portal.

**User response:** Examine other messages in the ITMS:Engine log, RKLWLOG, to determine the cause of the error. Contact IBM Software Support.
KS3A028E  INVALID SUMMARY TABLE REQUESTED: [table_id]

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Database summary table interface was invoked with a request for a table that is not valid.

System action: The Summary Table data requested is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A029E  BUFFER TOO SMALL FOR [table_id] TABLE ENTRY;
REQUIRED=[size_required],
PROVIDED=[size_provided]

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Database summary table interface was invoked with too small a return area for the requested table.

System action: The Summary Table data requested is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A030W  KS3AROWN - RMM OWNER NAME IN SITUATION [situation name] IS NOT SPECIFIED

Explanation: This message indicates that the RMM owner name is not specified in the situation definition. The name field is mandatory; therefore, the situation does not work.

System action: The situation for RMM owner does not return the expected data.

User response: Specify the RMM owner name in the situation definition.

KS3A040E  UNABLE TO LOCATE/VALIDATE [control_block_id] CONTROL BLOCK

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Group Details interface encountered an error.

System action: The requested Dataset Attribute Group details data is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A041E  INPUT PARAMETER LIST MISSING [parmlist_component]

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Group Details interface was invoked with an invalid parameter list.

System action: The requested Dataset Attribute Group details data is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A042E  UNABLE TO ALLOCATE BOOKMARK AREA STORAGE

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Group Details interface was unable to allocate storage for its Bookmark area.

System action: The requested Dataset Attribute Group details data is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A043E  INVALID REQUEST ID: [request_id]

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Group Details interface was invoked with an invalid request.

System action: The requested Dataset Attribute Group details data is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A044E  BUFFER TOO SMALL FOR DADD;
REQUIRED=[size_required],
PROVIDED=[size_provided]

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Group Details interface was invoked with too small a return area for the detail data.

System action: The requested Dataset Attribute Group details data is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.
KS3A050I  DATASET ATTRIBUTE DATABASE S3DA [command_function] COMMAND RECEIVED

Explanation: An S3DA command with the indicated [command_function] option was received by the Dataset Attribute Database.

System action: None.
User response: None. This is an informational message.

KS3A051I  DATASET ATTRIBUTE DATABASE S3DA [command_function] COMMAND PROCESSED

Explanation: An S3DA command with the indicated [command_function] option was processed by the Dataset Attribute Database.

System action: The action requested by [command_function] is performed.
User response: None. This is an informational message.

KS3A052W  DATASET ATTRIBUTE DATABASE S3DA [command_function] COMMAND COULD NOT BE PROCESSED

Explanation: An S3DA command with the indicated [command_function] option was issued but cannot be processed.

System action: None. The command is not processed.
User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine why the command cannot be processed.

KS3A053E  DATASET ATTRIBUTE DATABASE S3DA COMMAND FUNCTION NOT SPECIFIED

Explanation: An S3DA command was issued without a command function. Valid command functions are displayed in a subsequent message.

System action: None. The command is not processed.
User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine why the command cannot be processed.

KS3A054E  DATASET ATTRIBUTE DATABASE S3DA COMMAND FUNCTION INVALID OR OMITTED

Explanation: An S3DA command was issued with a missing or invalid command function. Valid command functions are displayed in a subsequent message.

System action: None. The command is not processed.
User response: Examine subsequent messages in the ITMS:Engine log, RKLVLOG, to determine valid command functions and reissue the S3DA command.

KS3A055I  VALID S3DA COMMAND FUNCTIONS

Explanation: VALID S3DA COMMAND FUNCTIONS:

START/COLLECT - START A COLLECTION CYCLE
STOP/HALT - STOP A COLLECTION CYCLE
TERM - TERMINATE ALL DATASET ATTRIBUTE DATABASE PROCESSING
STATUS - DISPLAY COLLECTION CYCLE STATUS

System action: None.
User response: None. Informational message only.

KS3A056E  DATASET ATTRIBUTE DATABASE S3DA COMMAND IGNORED; DATABASE INACTIVE

Explanation: An S3DA command was issued, however the Dataset Attribute Database is inactive.

System action: None. The command is not processed.
User response: None.

KS3A057W  DATASET ATTRIBUTE DATABASE S3DA STOP COMMAND IGNORED; COLLECTION NOT RUNNING

Explanation: An S3DA STOP command was issued, however Dataset Attribute Database collection is not in progress.

System action: None. The command is not processed and collection continues.
User response: None.

KS3A058W  DATASET ATTRIBUTE DATABASE S3DA START COMMAND IGNORED; COLLECTION IN PROGRESS

Explanation: An S3DA START command was issued, however Dataset Attribute Database collection is already in progress.

System action: None. The command is not processed.
User response: None.
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KS3A060I  DATASET ATTRIBUTE DATABASE

Explanation: An S3DA STATUS command was issued. The current status of collection is displayed and can be one of the following values:

CURRENT STATE: [collection_state]
GENERATED VOLUME TASKS: [generated_tasks]
COMPLETED VOLUME TASKS: [completed_tasks]
FAILED VOLUME TASKS: [failed_tasks]
PROCESSED DATASETS: [processed_datasets]

System action: None.
User response: None. Informational message only.

KS3A075E  CANNOT GET WORKG STORAGE

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Database detail table interface was unable to allocate storage for its work area.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.
User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A076E  PUT_PARM FAILURE FOR WORKG

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Database detail table interface was unable to set a required parameter.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.
User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A077E  GET PARM FOR INDEX FAILED

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Database detail table interface was unable to obtain a required parameter.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.
User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A079E  INVALID OR MISSING CONTROL BLOCK: [control_block_id]

Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Database detail table interface was unable to validate the indicated control block.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.
User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3A083E  INVALID DATASET ALET PASSED: [alet]

Explanation: A request was made for detail data from a specific data set, however the ALET provided is not valid.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.
User response: If this error was issued in response to a user-written Query, correct the ALET parm. Otherwise, contact IBM Software Support.

KS3A084E  INVALID DATASET ADDRESS PASSED: [address]

Explanation: A request was made for detail data from a specific data set, however the Address provided is not valid.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.
User response: If this error was issued in response to a user-written Query, correct the Address parm. Otherwise contact IBM Software Support.

KS3A085E  ADDRESS AND ALET BOTH REQUIRED FOR SPECIFIC DATASET RETRIEVAL

Explanation: A request was made for detail data from a specific data set, however either just the Address or ALET was provided. You must specify neither or both.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.
User response: If this error was issued in response to a user-written Query, either provide the missing parameter or remove both the Address and ALET retrieve the detail data using other attributes. Otherwise contact IBM Software Support.
KS3A086W  AT LEAST 1 INDEX MUST BE SPECIFIED FOR DATASET DETAIL TABLE QUERIES

Explanation: A request was made for a data set detail data, however no attribute indexes were provided to use in selecting detail data to be returned.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.

User response: If this error was issued in response to a user-written Query, provide at least 1 attribute and value to use for detail data selection. Otherwise contact IBM Software Support.

KS3A087E  UNABLE TO ACQUIRE STACK STORAGE

Explanation: A request was made for a data set detail data, however the database detail retrieval interface was unable to obtain sufficient storage.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.

User response: If this error persists it might be necessary to increase the storage available to the Tivoli Enterprise Monitoring Server. Contact IBM Software Support.

KS3A088E  INVALID PARMA ADDR FORMAT: [input_parm]

Explanation: A request was made for detail data from a specific dataset, however the Address/ALET provided is in a format that is not valid.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.

User response: If this error was issued in response to a user-written Query, correct the Address/ALET parm so that it is in the format "ALET:Address:". Otherwise contact IBM Software Support.

KS3A089W  [module]: INVALID PARMA [parameter_name] VALUE: [parameter_value]

Explanation: Invalid value is passed to the locator program for the specified parameter.

System action: The bad parameter value is ignored and processing continues.

User response: If this error is issued in response to a user-written Query, correct the parameter. Otherwise, contact IBM Software Support.

KS3A090E  [module]: UNABLE TO LOCATE DETAIL INFORMATION FOR THE MULTIVOLUME DATASET: [dataset_name]

Explanation: This message indicates that an internal error has occurred. The detail data for the specified multivolume data set cannot be found in the dataset attribute database.

System action: The Dataset Detail Table data requested is not returned for display at the Tivoli Enterprise Portal.

User response: Contact IBM Software Support.

KS3A101E  [module_name] OM2SM VECTOR NOT FOUND

Explanation: This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module_name].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A102E  [module_name] S3 VECTOR NOT FOUND

Explanation: This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module_name].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A103E  [module_name] UNABLE TO LOCATE DA MASTER CB

Explanation: This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module_name].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A104E  [module_name] DA MASTER CB FAILED VALIDITY CHECK

Explanation: This message indicates that an internal error has occurred. The indicated control block was found to be invalid by module [module_name].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.
KS3A105E [module_name] ESTAEX MACRO FAILED; RC=RETCODE/REASON

Explanation: This message indicates that an internal error has occurred. Module [module_name] was unable to establish its recovery routine.

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A106E [module_name] UNABLE TO LOCATE GSA

Explanation: This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module_name].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A107E [module_name] UNABLE TO LOCATE DACC

Explanation: This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module_name].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A113E [module_name] STORAGE OBTAIN FAILED WITH RC [return_code]

Explanation: This message indicates that an internal error has occurred. An attempt to obtain storage by module [module_name] failed with return code [return_code].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A114E [module_name] GMEM FAILED WITH RC [return_code]

Explanation: This message indicates that an internal error has occurred. An attempt to obtain storage by module [module_name] failed with return code [return_code].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A115E [module_name] UNABLE TO OBTAIN WORKAREA STORAGE

Explanation: This message indicates that an internal error has occurred. An attempt to obtain workarea storage by module [module_name] failed.

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A190E [module_name] ABENDED: CODE=[abend_code], PSW=[psw]

Explanation: This message indicates that an internal error has occurred. Module [module_name] abnormally terminated with code [abend_code] at location [psw].

System action: Processing for the function in process is halted.

User response: Contact IBM Software Support.

KS3A200I DATASET ATTRIBUTE DATABASE ON-DEMAND REQUEST RECEIVED

Explanation: A request was received to immediately start a Dataset Attribute Database collection cycle, from either the User Interface window or the S3DA operator command.

System action: A collection cycle is started, using the options currently in effect (for example, Volume/Storage Group exclusion lists or Catalog Collection option).

User response: None. The status of collection can be obtained by issuing the command F [taskname], S3DA STATUS.

KS3A201W ERROR FREEING CONTROL BLOCK STORAGE; [process] CONTINUES

Explanation: An attempt to free Dataset Attribute Database control block storage failed.

System action: The indicated process continues.

User response: None. If the condition causing this message to appear persists over many collection cycles, storage within the address space might be completely filled. Contact IBM Software Support.

KS3A202E UNABLE TO ALLOCATE COLLECTION CONTROL BLOCKS

Explanation: An attempt to allocate Dataset Attribute Database control block storage failed.

System action: The collection cycle is terminated.

User response: This error might be temporary. The error typically occurs when large amounts of storage are used by other processes in the address space when the
KS3A203E  UNABLE TO ALLOCATE
[dataspace_name] DATASPACE;
DSAP=[dsap]
Explanation: An attempt to allocate a Dataset Attribute Database data space failed.
System action: The collection cycle is terminated.
User response: Contact IBM Software Support.

KS3A204I  DATASET ATTRIBUTE
[dataspace_function] DATASPACE:
ORIGIN=[dataspace_origin],
LENGTH=[dataspace_length],
NAME=[dataspace_name],
STOKEN=[dataspace_stoken],
ALET=[dataspace_ale]
Explanation: A data space was created with the indicated attributes for a Dataset Attribute Database collection cycle.
System action: Collection continues using the allocated data space.
User response: None.

KS3A205E  UNKNOWN POST CODE
Explanation: This message indicates that an internal error has occurred. The Dataset Attribute Database controller was posted with an action code that is not valid.
System action: The collection cycle is terminated.
User response: Contact IBM Software Support.

KS3A222E  DATASET ATTRIBUTE DATABASE COLLECTION TERMINATED
Explanation: A previously indicated error has caused the Dataset Attribute Database collection controller to terminate processing.
System action: The collection cycle is terminated.
User response: Examine the ITMS:Engine log, RKLVLOG, for other messages indicating the original error. Contact IBM Software Support.

KS3A225I  NEXT DATASET ATTRIBUTE DATABASE COLLECTION CYCLE IN
[wait_time] MINUTES
Explanation: A request was received to change the collection cycle start time, or a cycle has completed and the next cycle has been scheduled.
System action: A collection cycle is scheduled to begin in [wait_time] minutes.
User response: None.

KS3A251E  SMS CLASS MISMATCH DURING SUMMARY MERGE
Explanation: This message indicates that an internal error has occurred. A collection control block has become corrupted.
System action: The collection cycle is terminated.
User response: Examine the ITMS:Engine log, RKLVLOG, for other messages indicating the original error. Contact IBM Software Support.

KS3A275E  TIME MACRO FAILED; DEADLINE CANNOT BE DETERMINED
Explanation: This message indicates that an internal error has occurred. An attempt to calculate the specified End Time failed.
System action: The collection cycle continues, however the specified end time cannot be honored.
User response: Contact IBM Software Support. If the collection cycle continues past the time specified by End Time, you can click the Force Stop button in the dialog box of the user interface to manually stop processing. Alternatively you can issue the following operator command: F taskname,S3DA STOP.

KS3A276I  DATASET ATTRIBUTE DATABASE COLLECTION CYCLE STARTING;
[volume_count] VOLUMES WILL BE PROCESSED
Explanation: A collection cycle has started. Attributes from data sets on the indicated number of volumes are being collected.
System action: The collection cycle continues.
User response: None. The number of volumes to be processed might be less than the total number of volumes monitored by the IBM Tivoli OMEGAMON XE for Storage on z/OS product if you specified Volumes and/or Storage Groups in the User Interface exclusion lists.

KS3A277I  DATASET ATTRIBUTE DATABASE COLLECTION COMPLETE
Explanation: The collection cycle has completed.
System action: Attribute data from the collection cycle is now available.
User response: None. Subsequent messages indicate the number of volumes and data sets included in the database.
**Explanation:** The indicated number of volumes and data sets were processed during the just-completed Dataset Attribute Database collection cycle.

**System action:** None.

**User response:** None.

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**KS3A279I** [excluded_volumes] VOLUMES EXCLUDED; [total_tasks] VOLUME TASKS GENERATED; [failed_tasks] VOLUME TASKS FAILED; [bypassed_volumes] VOLUMES BYPASSED; [processed_volumes] VOLUMES PROCESSED

**Explanation:** The indicated number of volumes and data sets were processed during the just-completed Dataset Attribute Database collection cycle. Excluded volumes are those that were explicitly excluded by the user interface; Bypassed volumes are those that were in use and cannot be processed.

**System action:** None.

**User response:** None.

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**KS3A280W** DATASET ATTRIBUTE DATABASE COLLECTION DEADLINE REACHED; IMMEDIATE HALT INITIATED

**Explanation:** The specified End Time has been reached and the collection cycle is not complete.

**System action:** The collection cycle is halted. All attributes collected up to this point are available in the database.

**User response:** None. If collection was halted is either too early or too late, adjust the End Time specified in the Dataset Attribute Database User Interface dialog box.

**KS3A281E** SUBTASK ATTACH FAILED WITH RC [attach_retcode]

**Explanation:** An ATTACH for a volume collection subtask failed with the indicated return code.

**System action:** Collection terminates.

**User response:** Contact IBM Software Support.
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KS3A292E SUBTASK ENDED WITH ERROR CODE [code]
Explanation: This message indicates that an internal error has occurred. A volume collection subtask failed with the indicated return code.
System action: Collection terminates.
User response: Contact IBM Software Support.

KS3A293E DEVICE TABLE UNAVAILABLE; COLLECTION CYCLE CANCELLED
Explanation: A collection subtask cannot be initiated, as the internal product device table has not yet been created.
System action: The collection cycle is not started.
User response: This error might occur when a user or an operator-initiated Start request is issued for Dataset Attribute Database collection, or a scheduled Start time occurs, before full Tivoli OMEGAMON XE for Storage product initialization is complete. If this condition occurs, configure the manual or scheduled start to happen after the product is fully initialized. If this configuration change does not solve the problem, contact IBM Software Support.

KS3A294E UNABLE TO OBTAIN VOLUME-LEVEL STV
Explanation: The collection task was unable to obtain storage for a required control block.
System action: Collection terminates.
User response: This error might occur because of the aggregate storage requirements in the address space at the time collection started. The problem might not recur on the next collection cycle. Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error and contact IBM Software Support.

KS3A299E DATASET ATTRIBUTE DATABASE COLLECTION CYCLE TERMINATED
Explanation: A previously indicated error has caused the Dataset Attribute Database collection controller to terminate processing.
System action: The collection cycle is terminated.
User response: Examine the ITMS:Engine log, RKLVLOG, for other messages indicating the original error. Contact IBM Software Support.

KS3A501E INPUT VWE ADDRESS MISSING OR INVALID
Explanation: This message indicates that an internal error has occurred. A volume collection subtask cannot locate a required control block.

KS3A502E ERROR [return_code/reason_code] ATTEMPTING TO READ VTOC OF [volser]
Explanation: The collection task was unable to read the VTOC of the specified volume, for the specified reason.
System action: Collection for the indicated volume terminates. Other collection tasks continue.
User response: This message might be issued in response to a problem, with the VTOC of the specified volume and not a program error. If the volume can be successfully accessed through other means (for example, ISPF option 3.4), contact IBM Software Support.

KS3A503E UNABLE TO OBTAIN STORAGE FOR DSCB BUFFERS ON VOLUME [volser]
Explanation: The collection task was unable to obtain storage for a required control block.
System action: Collection for the indicated volume terminates. Other collection tasks continue.
User response: This error might occur because of the aggregate storage requirements in the address space at the time collection started. The problem might not recur on the next collection cycle. Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error and contact IBM Software Support.

KS3A504E CVAFSEQ FAILED FOR VOLUME [volser]; RC=[CVAF_return_code] CVSTAT=[CVAF_cvstat_code]
Explanation: This message indicates that an internal error has occurred. The collection task was unable to obtain storage for a required control block.
System action: Collection for this volume terminates. Other collection tasks continue.
User response: This error might occur because of the aggregate storage requirements in the address space at the time collection started. The problem might not recur on the next collection cycle. Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error and contact IBM Software Support.

KS3A505E UNABLE TO OBTAIN STORAGE FOR CSI BUFFER
Explanation: This message indicates that an internal error has occurred. The collection task was unable to obtain storage for a required control block.
System action: Collection for this volume terminates. Other collection tasks continue.
User response: This error might occur because of the aggregate storage requirements in the address space at the time collection started. The problem might not recur on the next collection cycle. Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error and contact IBM Software Support.

KS3A506E CVAFSEQ FAILED FOR VOLUME [volser]; RC=[CVAF_return_code] CVSTAT=[CVAF_cvstat_code]
Explanation: The collection task was unable to read
the VTOC of the specified volume, for the specified reason.

**System action:** Collection for the indicated volume terminates. Other collection tasks continue.

**User response:** This message might be issued in response to a problem with the VTOC of the specified volume and not a program error. If the volume can be successfully accessed through other means (for example, ISPF option 3.4), then contact IBM Software Support.

**KS3A509E UNABLE TO CREATE NEW DATASPACE; DSAP=[dsap]**

**Explanation:** The current data space is full but the collection task was unable to create a new one.

**System action:** The collection cycle is halted. All attributes collected up to this point are available in the database.

**User response:** This error might occur because of the aggregate storage requirements in the address space at the time collection started. The problem might not recur on the next collection cycle. Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error and contact IBM Software Support.

**KS3A510I NEW DATASPACE [dataspace_name] ORIGIN=[dataspace_origin], LENGTH=[dataspace_length], STOKEN=[dataspace_stoken], ALET=[dataspace_alet]**

**Explanation:** A new data space was created with the indicated attributes for a Dataset Attribute Database collection cycle.

**System action:** Collection continues using the newly created data space.

**User response:** None.

**KS3A515W VOLUME [volser] IS IN USE BY ANOTHER JOB OR USER AND WILL NOT BE PROCESSED**

**Explanation:** An attempt was made to issue a shared Enqueue on the specified volume for QNAME SYSVTOC, however another job or user has that resource enqueued exclusively.

**System action:** Collection for the specified volume is bypassed. Other volume tasks continue.

**User response:** None.

**KS3A520W COLLECTION TASK TERMINATED FOR VOLUME [volser]**

**Explanation:** A previously issued message has caused the collection task for the specified volume to terminate.

**System action:** Collection for the specified volume is terminated. Other volume tasks continue.

**User response:** Examine the ITMS:Engine log, RKLVLOG, for other messages indicating the original error. Contact IBM Software Support.

**KS3A550E CVAFDIR FAILED FOR VOLUME [volser]; RC=[CVAF_return_code] CVSTAT=[CVAF_cvstat_code]**

**Explanation:** The collection task was unable to read the VTOC of the specified volume, for the specified reason.

**System action:** Collection for the indicated volume terminates. Other collection tasks continue.

**User response:** This message might be issued in response to a problem with the VTOC of the specified volume and not a program error. If the volume can be successfully accessed through other means (for example, ISPF option 3.4), then contact IBM Software Support.

**KS3A600I Unable to open.**

**Explanation:** This message indicates that the program was unable to open hlq.RKANPAR (KDFDUDGI).

**System action:** No migration occurred.

**User response:** Ensure that hlq.RKANPAR (KDFDUDGI) exists. If it does not, then retry migration.

**KS3A601E Group on line [linenumber] will not be migrated. The KEYWORDS exceed the maximum length of [maxlen].**

**Explanation:** This message indicates that the program was unable to open add the group near the specified line number because the total number of keywords exceed the allowable limit.

**System action:** None.

**User response:** Reduce the number of keywords for the specified group and execute the command again.

**KS3A602I Adding [groupname] with keywords [keywords].**

**Explanation:** This informational message indicates that the group was successfully read and validated from KDFDUDGI.

**System action:** None.
KS3A603E  KLE_FrrSet [return_code] in [function]  
Explanation: This message indicates an internal error has occurred. An abend occurred during Dataset Attributes Groups processing.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3A604E  Line [linenumber] contains an invalid DEVICE. The group [ grouppname ] with the invalid DEVICE was not added.
Explanation: The specified line in KDFDUDGI contains a DEVICE that does not meet specifications. The group associated with this DEVICE will not be migrated.
System action: None.
User response: Ensure that the DEVICE address is greater than 0xFF and less than or equal to 0xFFFF.

KS3A605E  Line [linenumber] contains an invalid DEVRANGE. The group [groupname] with the invalid DEVRANGE was not added.
Explanation: The specified line in KDFDUDGI contains a DEVRANGE that does not meet specifications. The group associated with this DEVRANGE will not be migrated.
System action: None.
User response: Ensure that the DEVICE address is greater than 0xFF and less than or equal to 0xFFFF and that the minimum address is less than the maximum address.

KS3A606E  Line [linenumber] contains an invalid SMSSTGRP. The group [groupname] with the invalid SMSSTGRP was not added.
Explanation: The specified line in KDFDUDGI contains a SMSSTGRP that does not meet specifications. The group associated with this SMSSTGRP will not be migrated.
System action: None.
User response: Ensure that the SMSSTGRP is not blank.

KS3A607E  Line [linenumber] contains an invalid VOLSER. The group [groupname] with the invalid VOLSER was not added.
Explanation: The specified line in KDFDUDGI contains a VOLSER that does not meet specifications. The group associated with this VOLSER will not be migrated.
System action: None.
User response: Ensure that the VOLSER is not blank and that it is 6 characters or less.

KS3A608E  No value for keyword [keyword]. The group associated with the keyword on line [linenumber] will be skipped.
Explanation: The specified line in KDFDUDGI contains a keyword without a value. The group associated with this keyword will not be migrated.
System action: None.
User response: Ensure that all keywords have correct values through the configuration tool.

KS3A609W  The group [groupname] already exists and will not be migrated.
Explanation: An attempt was made to migrate OMEGAMON II for SMS User DASD Groups defined in RKANPARU member KDFDUDGI to dynamic User DASD Group definitions. The specified group name in KDFDUDGI already exists in the dynamic User DASD Group definitions and will not be migrated.
System action: None.
User response: To migrate this group you must either remove the group in Tivoli OMEGAMON XE for Storage on z/OS or rename the OMEGAMON II for SMS group by using the configuration tool.

KS3A610E  The group [groupname] cannot be added because of an internal problem.
Explanation: An internal error occurred while trying to save this group.
System action: None.
User response: Contact IBM Software Support.

KS3A611I  The group [groupname] was successfully migrated.
Explanation: This message indicates that a group from KDFDUDGI was successfully migrated to Tivoli OMEGAMON XE for Storage on z/OS.
System action: None.
User response: None. This is an informational message.
KS3A612E  Dynamic Group Anchor Pointer is NULL

Explanation: This message indicates that an internal error has occurred when locating the specified dynamic group entry.
System action: None.
User response: Contact IBM Software Support.

KS3A613W  The group [groupname] exceeds MAX of [maxlen]. The group will not be migrated.

Explanation: An attempt was made to migrate OMEGAMON II for SMS User DASD Groups defined in RKANPARU member KDFDUDGI to dynamic User DASD Group definitions. The length of the group name specified exceeds the maximum of 30 characters. The group will not be migrated.
System action: None.
User response: Change the OMEGAMON II for SMS group name to 30 characters or less and retry.

KS3C001E  [modname] unable to acquire the address of the S3 PDS work area

Explanation: Allocation of the PDS work area normally takes place when the Tivoli Enterprise Monitoring Server is initialized. However, the vector which should point to this area contains zeros. Possible values for modname include KS3CPLCU and KS3CPCHP.
System action: Historical data for Logical Control Units (LCU) are not written to the Persistent Data Stores until this situation is corrected.
User response: Check for message KS3D002E in the RKLVLOG. If found, take the recommended actions. Otherwise, contact IBM Software Support.

KS3C002E  KS3CPLCU Unable to allocate memory for PDSRec

Explanation: The LCU historical retriever was unable to allocate sufficient Tivoli Enterprise Monitoring Server Engine storage for a work area.
System action: Historical data for Logical Control Units (LCU) are not written to the persistent Data Stores until this situation is corrected.
User response: Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This might also require an increase in region size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

KS3C003E  KS3CIHUB: InsertNodeAtHub call returned with return code

Explanation: Module KS3CIHUB issued an InsertNodeAtHubExtended call and received a non-zero return code. A request was made for a date/time for which there is not an applicable record available.
System action: Tivoli OMEGAMON XE for Storage on z/OS continues without returning historical data for this request.
User response: To increase the amount of historical data available, expand the Persistent Data Store.

KS3C004E  [module name] $CMD FAILED FOR COMMAND ['command_text'], RC=(nn)

Explanation: Module [module name] received return code (nn) while attempting to use the $CMD facility to issue MODIFY command [command_text] to the Tivoli Enterprise Management Server address space.
System action: Tivoli OMEGAMON XE for Storage on z/OS continues, however some product functions might be disabled.
User response: Contact IBM Software Support.

KS3C005E  [module name]: JOBNAME NOT FOUND, KS3AGENT NOT STARTED

Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3C006I  [module name]: KS3AGENT LAUNCHED

Explanation: Tivoli OMEGAMON XE for Storage has started.
System action: Tivoli OMEGAMON XE for Storage continues.
User response: None.
**KS3C007I**  
**module name**: STOPPING KS3AGENT  
**Explanation**: Tivoli OMEGAMON XE for Storage is being terminated.  
**System action**: Tivoli OMEGAMON XE for Storage termination continues.  
**User response**: None.

**KS3C043E**  
**module name**: Abend x"nn" detected, requesting dump  
**Explanation**: An abend has occurred in module module name, with an abend code of "nn". The functional recovery routine has requested that a memory dump be taken for diagnostic purposes.  
**System action**: Tivoli OMEGAMON XE for Storage on z/OS continues, however some product functions might be disabled.  
**User response**: Contact IBM Software Support.

**KS3D001E**  
**modname**: UNABLE TO FIND OM2SMVCT  
**Explanation**: This is an internal error.  
**System action**: Most storage monitoring functions are disabled.  
**User response**: Contact IBM Software Support.

**KS3D002E**  
**KS3DINIT**: ALLOCATION FAILED FOR S3VECTOR: SIZE=[size], RC=[rc]  
**Explanation**: An attempt to allocate storage for the S3 vector table failed.  
**System action**: Storage monitoring in Tivoli Enterprise Portal is disabled.  
**User response**: Contact IBM Software Support.

**KS3D003W**  
**KS3DINIT**: UNABLE TO LOAD [modname]  
**Explanation**: A load failed for the named module.  
**System action**: Most of the modules named by this message are used to gather data to be written to the Persistent Data Store for historical reporting. Data associated with the module named in this message is not written to the PDS until the problem is corrected.  
**User response**: Contact IBM Software Support.

**KS3D004E**  
**UNABLE TO FIND S3 VECTOR**  
**Explanation**: This message indicates that an internal error has occurred.  
**System action**: Most storage monitoring functions are disabled for the Tivoli Enterprise Portal.  

**KS3D005W**  
**KS3DINIT**: ALLOCATION FAILED FOR APPWORK  
**Explanation**: An attempt to allocate storage for the application work area failed.  
**System action**: Application monitoring is disabled.  
**User response**: Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This can also require an increase in region size, if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

**KS3D006E**  
**KS3CINIT**: UNABLE TO FIND OPERATOR RESOURCE  
**Explanation**: An attempt to locate the operator logical resource failed.  
**System action**: The Tivoli OMEGAMON XE for Storage on z/OS node is not able to register with the hub Tivoli Enterprise Monitoring Server.  
**User response**: Contact IBM Software Support.

**KS3D007I**  
**KS3CINIT**: PROCESSING  
**Explanation**: This is an informational message indicating that the Tivoli Enterprise Monitoring Server initialization routine is running.  
**System action**: Tivoli OMEGAMON XE for Storage on z/OS continues without recording historical data for the given table.  
**User response**: None. This message is informational.

**KS3D008W**  
**modname**: - pds table RECORDING DISABLED - [reason]  
**Explanation**: Module modname has detected a problem while attempting to write historical data. Historical recording for the table has been disabled due to the given reason.  
**System action**: Tivoli OMEGAMON XE for Storage on z/OS continues without recording historical data for the given table.  
**User response**: Contact IBM Software Support.

**KS3D009E**  
**modname**: - SETUP FAILED FOR pds table INSERTS; RC = [rc]  
**Explanation**: Module modname has detected a problem while attempting to set up the persistent data store table. The setup call returned with a return code of rc. KS3D009E messages normally result when the RMF interval ends prior to the complete initialization of the persistent data store.  
**System action**: Tivoli OMEGAMON XE for Storage on
z/OS continues without recording historical data for the given table.

**User response:** Contact IBM Software Support. The message type is Tivoli Enterprise Monitoring Server Engine log, RKLVLOG.

---

**KS3D0100E** [module name] ABENDED: [abend information]

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3D0101E** [module name] ABEND MAY HAVE CAUSED LOSS OF [table] PDS DATA

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3D010W** [modname]: - [pds table] RECORDING SKIPPED THIS INTERVAL - [reason]

**Explanation:** Module [modname] has found no entries to write to the PDS table [pds table]. Further information is provided by the information in the reason field.

**System action:** Tivoli OMEGAMON XE for Storage on z/OS continues without recording historical data for the given table for this interval.

**User response:** If this message persists, contact IBM Software Support. An occurrence of this message during product initialization could be normal.

---

**KS3D011E** [modname]: - INSERT FAILED FOR [pds table] TABLE INSERT; RC = [rc] -- RECORDING TERMINATING FOR THIS INTERVAL

**Explanation:** Module [modname] has received return code [rc] while attempting to write a record to PDS table [pds table].

**System action:** Tivoli OMEGAMON XE for Storage on z/OS continues without recording historical data for the given table for the current interval.

**User response:** If this message persists, contact IBM Software Support. An occurrence of this message during product initialization could be normal.

---

**KS3D012W** [modname]: - RMF SYNCHRONIZATION FAILED - RC=[rc] - RECORDING INTERVAL DEFAULTING TO 15 MINUTES

**Explanation:** Module [modname] has not been able to synchronize historical recording with the RMF interval. RC=[r] indicates the reason that the recording interval defaulted to 15 minutes. Return codes are:

- 0 - OK
- 4 - Interval=0 from AP
- 8 - NO STGST address
- 12 - NO RMF routine address
- 16 - Parm area address in R1=0 on entry
- 20 - RMF Routine address is dummy
- 24 - Interval = 0 from control blocks
- 28 - Interval less than 1 minute
- 32 - Load failed for KDFDRMFI
- 36 - KDFDRMFI entry point not found

**System action:** Tivoli OMEGAMON XE for Storage on z/OS continues; however, the recording interval for historical recording is set to 15 minutes.

**User response:** The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG. If this message persists and RMF monitor 1 is active, contact IBM Software Support with the return code information.

---

**KS3D013E** [modname]: ALLOCATION FAILED FOR item, SIZE = size, RC = [return code]

**Explanation:** Module [modname] was unsuccessful in obtaining size number of bytes of storage to allocate the control block item. The request failed with return code [return code].

**System action:** Tivoli OMEGAMON XE for Storage on z/OS continues; historical recording for this interval is skipped.

**User response:** Contact IBM Software Support.

---

**KS3D018E** [module name] UNABLE TO OBTAIN STORAGE FOR [storage-name], LENGTH = [size], REASON = [reason-code]

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage on z/OS continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
**KS3D019E • KS3D028E**

<table>
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<th>Error Code</th>
<th>Module Name</th>
<th>Message</th>
<th>Explanation</th>
<th>System Action</th>
<th>User Response</th>
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<tbody>
<tr>
<td>KS3D019E</td>
<td>TDS CONTROL BLOCK STORAGE AREA TOO SMALL, START = [start-addr], END = [end-addr]</td>
<td>This message indicates that an internal error has occurred.</td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
<td></td>
</tr>
<tr>
<td>KS3D022E</td>
<td>$CACHTDS ERROR: TYPE = [type], RC = [return-code], REASON = [reason-code]</td>
<td>This message indicates that an internal error has occurred.</td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
<td></td>
</tr>
<tr>
<td>KS3D023I</td>
<td>CACHE COLLECTOR TERMINATING, DATA COLLECTION HALTED FOR THIS INTERVAL</td>
<td>This message indicates that an internal error has occurred.</td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
<td></td>
</tr>
<tr>
<td>KS3D024E</td>
<td>[module name] : [item], ATTRIBUTE = [attribute], OPERATOR = [operator], COMPARISON DATA = [data]</td>
<td>The module found a problem with the input data supplied for a DASD user group. The input filter data is displayed.</td>
<td>Tivoli OMEGAMON XE for Storage on z/OS continues; the DASD user group being processed is not defined.</td>
<td>Contact IBM Software Support.</td>
<td></td>
</tr>
<tr>
<td>KS3D025E</td>
<td>[module name] : INVALID DEFINITION STRING</td>
<td>The module detected an invalid filter definition for a User DASD Group. This message is followed by message KLVSC002, which contains further information.</td>
<td>Tivoli OMEGAMON XE for Storage on z/OS continues; the User DASD group being processed is not defined.</td>
<td>Contact IBM Software Support.</td>
<td></td>
</tr>
<tr>
<td>KS3D026W</td>
<td>[module name] : DUPLICATE USER DASD GROUP FOUND, GROUP NAME: [group name]</td>
<td>The module attempted to add a new User DASD Group; however, the group had been previously defined. The previously defined group is printed in UTF-8 format.</td>
<td>Tivoli OMEGAMON XE for Storage on z/OS continues; the User DASD group being processed is not defined a second time.</td>
<td>Contact IBM Software Support.</td>
<td></td>
</tr>
<tr>
<td>KS3D027E</td>
<td>[module name]: ERROR IN ROUTINE KS3SUDGV, RC = [return code], COLUMN = [column], OPERATION VALUE = [operator], LENGTH VALUE = [length]</td>
<td>The module invoked routine KS3SUDGV and received a return code that indicated an internal error. The error information consists of the column name, the operation value, and the comparison length.</td>
<td>Tivoli OMEGAMON XE for Storage on z/OS continues; the volume being processed by routine KS3SUDGV is not included in the User DASD Group being filtered.</td>
<td>Contact IBM Software Support.</td>
<td></td>
</tr>
<tr>
<td>KS3D028E</td>
<td>[module name]: Unable to find [control block]</td>
<td>Module [module name] was unable to find a valid pointer to control block [control block] used in common recall queue data collection. This message indicates that an internal error has occurred.</td>
<td>Tivoli OMEGAMON XE for Storage on z/OS continues. However, information about DFSMShsm common recall queue processing will not be available.</td>
<td>Contact IBM Software Support.</td>
<td></td>
</tr>
</tbody>
</table>
KS3D029E [module name]: SERVICE TASK ATTACH FAILED [code] - [text]

Explanation: This message indicates that an internal error has occurred. Module [module name] attempted to do an ATTACH, but it failed with return code [code]. The text further identifies the failing component.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3D030E [module name]: INVALID POST CODE = [code]

Explanation: This message indicates that an internal error has occurred. Module [module name] was posted with a code [code] that was not recognized. The requested operation is ignored.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3D031E [module name]: INVALID STORAGE RELEASE REQUEST, ADDR = [addr], LENGTH = [length]

Explanation: This message indicates that an internal error has occurred. Module [module name] attempted to free storage but either the address [addr] or the length [length] was invalid.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3D032E [module name]: STORAGE RELEASE ERROR, [code], ADDR = [addr], LENGTH = [length]

Explanation: This message indicates that an internal error has occurred. Module [module name] attempted to free storage but received return code [code]. The address of the storage [addr] and the length [length] are provided.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3D033W [module name]: SDUMP ERROR, RC = [code]

Explanation: This message indicates that an attempt to issue the SDUMPX service failed with return code [code]. The dump has been attempted as a result of an abend or unexpected situation.

System action: Tivoli OMEGAMON XE for Storage continues, but the dump that may be required for diagnosis is not available.

User response: Check the return code to see if it indicates an environmental error that can be corrected. Otherwise, contact IBM Software Support.

KS3D034I [module name]: SDUMP [dumpname] SUCCESSFULLY TAKEN

Explanation: This message indicates that an SVC dump was successfully taken with title [dumpname]. The dump was taken as a result of an abend or other unexpected situation.

System action: Tivoli OMEGAMON XE for Storage continues. The dump may be required by support for problem determination.

User response: Contact IBM Software Support. Save the dump as it may be required for problem determination. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3D035E [module name]: [function name] Unable to allocate [size] bytes of storage for [control block]

Explanation: Function [function name] in module [module name] was unable to successfully acquire [size] bytes of CT/Engine storage for [control block].

System action: Tivoli OMEGAMON XE for Storage continues. However, information about DFSMShsm common recall queue processing will not be available.

User response: Check the Tivoli Enterprise Monitoring Server RKLVLOG in the JES spool to verify whether the monitoring server is currently in a storage quiesce condition. If so, contact IBM Software Support for assistance. If not, increase the amount of storage available to the CT/Engine at startup by increasing the MINIMUM(4nnnnnnn.X) parameter in the KDSSYSIN member of the RANPARU data set. Contact IBM Software Support for assistance in optimizing this value.

KS3D036E [module name]: [function name] FAILED; CRQ DATA NOT AVAILABLE

Explanation: Function [function name] in module [module name] completed with a non-zero return code.
KS3D037E • KS3D043E

Other messages from function [function name] will have been issued to provide more detailed information on the error.

System action: Tivoli OMEGAMON XE for Storage continues. However, information about DFSMShsm common recall queue processing will not be available.
User response: Contact IBM Software Support for assistance.

KS3D037E [module name]: [function name] RC=[nn] from [request type] AT[nnode]
Explanation: Function [function name] received a return code [nn] executing SQL function [request type] at node [node].
System action: Tivoli OMEGAMON XE for Storage continues. However, information about DFSMShsm common recall queue processing could be incomplete. For example, data for node [node] might be missing.
User response: This error could be the result of a communications problem with node [node]. If you cannot resolve the error, contact IBM Software Support for additional assistance.

KS3D038E [module name]: [function name] call to [routine] failed
Explanation: A call to routine [routine] from function [function name] completed with a return code indicating failure. Other error messages will have been issued by [routine] indicating the specific errors causing failure.
System action: Tivoli OMEGAMON XE for Storage continues. However, information about DFSMShsm common recall queue processing could be incomplete or missing. Look for other messages in the Tivoli Enterprise Monitoring Server RKLVLOG indicating the cause and scope of the failure.
User response: Contact IBM Software Support for assistance.

KS3D039W [module name]: [function name] [table name] table overflow; table size = [nn] entries
Explanation: Function [function name] in module [module name] ran out of room in the allocated [table name] table while attempting to populate it. The allocated table has room for [nn] entries.
System action: Tivoli OMEGAMON XE for Storage continues. This condition is probably a transient error that will correct itself at the next refresh interval for the common recall queue system cross-reference table. (This interval is hard-coded at 15 minutes). In the interim, cross-system reports for common recall queue information may be missing data for one or more DFSMShsm hosts.
User response: If this warning persists, contact IBM Software Support for assistance.

KS3D040W [module name]: [function name] no host data retrieved; host count = [nn]
Explanation: Function [function name] in module [module name] was unable to retrieve any host information for the common recall queue system cross-reference table. Data should have been available for [nn] hosts.
System action: Tivoli OMEGAMON XE for Storage continues. Existing host tables will remain in use until the next successful refresh of the common recall queue host cross-reference tables. If this condition occurs during initialization, then no DFSMShsm common recall queue data will be available.
User response: If this warning persists, contact IBM Software Support for assistance.

KS3D041W [module name]: [function name] no data returned from SQL COUNT request
Explanation: Function [function name] in module [module name] successfully executed an SQL query for COUNT() but no data was returned.
System action: Tivoli OMEGAMON XE for Storage continues. Existing host tables will remain in use until the next successful refresh of the common recall queue host cross-reference tables. If this error occurs during initialization, then no DFSMShsm common recall queue data will be available.
User response: If this warning persists, contact IBM Software Support for assistance.

KS3D042I [module name]: shut down successfully
Explanation: Module [module name] received a STOP request and has terminated processing normally.
System action: HSM common recall data will no longer be available. This message normally appears during Tivoli Enterprise Monitoring Server shutdown.
User response: None.

KS3D043E [module name] Abend x'[nn]' detected, requesting dump
Explanation: An abend has occurred in module [module name], with an abend code of [nn]. The functional recovery routine has requested a memory dump be taken for diagnostic purposes.
System action: Tivoli OMEGAMON XE for Storage on z/OS continues, however some product functions might be disabled.
User response: Contact IBM Software Support.
KS3D044E  [module_name] invalid continuation in KS3DVTSI

Explanation: The control cards in RKANPARU member KS3DVTSI contain an invalid continuation.

System action: Tivoli OMEGAMON XE for Storage on z/OS continues, however data collection for TS7700 VTS devices may not occur.

User response: This error is probably the result of editing the control card manually in the TSO editor. The Parameter Library (PARMLIB) configuration process provides valid continuation characters and placements. If this error occurs after using the Configuration Tool or the PARMLIB configuration process, contact IBM Software Support for assistance.

KS3D045E  [module_name] CRQ CF [function name] FAILED; RETCODE = [retcode] REASON = [rsncode] STRUCTURE = [structure name] {additional diagnostics}

Explanation: Common Recall Queue Coupling Facility [function name] in module [module name] was unable to retrieve all or part of the data stored in the HSM list structure named [structure name]. If an HSM CRQ is defined for this image, then no CF data will be available for reporting.

System action: Tivoli OMEGAMON XE for Storage on z/OS continues. This problem could be due to HSM initialization still in progress, a CF problem or other CRQ-related structure problem.

User response: If this message persists after HSM initialization and no problem is identified in the CRQ CF structure, then contact IBM Software Support for assistance.

KS3D046E  [module_name] DATA COLLECTION BLOCKED DUE TO PREVIOUS IXLDISC FAILURE; RETCODE = [retcode] REASON = [rsncode] {additional diagnostics}

Explanation: Common Recall Queue Coupling Facility data is blocked due to a previous disconnection attempt failure. The last disconnect failure [retcode] and [rsncode] and diagnostics are reported. If an HSM CRQ is defined for this image, then no CF data will be available for reporting.

System action: Tivoli OMEGAMON XE for Storage on z/OS continues. This problem may be due to HSM initialization still in progress, a CF problem or other CRQ-related structure problem.

User response: If this message persists after HSM initialization and no problem is identified in the CRQ CF structure, then contact IBM Software Support for assistance.

KS3G003I  [module_name] - STOP REQUEST [requested] - DSN GROUP COLLECTION TERMINATED

Explanation: A STOP request has been detected by [module_name], and collection for data set groups is being terminated, where [requested] is: 0 - NORMAL SHUTDOWN 4 - STORAGE NOT AVAILABLE 8 - ENVIRONMENT ERROR 16 - ABEND

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: None, if this message is issued during normal shutdown (request_code=0) of the monitoring server. For all other request codes, examine the RKLVLOG for other KS3G messages indicating the specific problem that caused collection to be terminated. Contact IBM Software Support.

KS3G004E  [module_name] UNABLE TO FIND S3 VECTOR - DSN GROUP COLLECTION TERMINATED

Explanation: This message indicates that an internal error has occurred. The indicated control block could not be found by module [module_name].

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Contact IBM Software Support.

KS3G005E  [module_name] INVALID REQUEST CODE [request_code] - DSN GROUP COLLECTION TERMINATED

Explanation: This message indicates that an internal error has occurred. The indicated invalid request code was received by module [module_name].

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Contact IBM Software Support.

KS3G006E  SERVICE TASK ATTACH FAILED [attach_code] - DSN GROUP COLLECTION TERMINATED

Explanation: This message indicates that an internal error has occurred. The data set group collection subtask could not be attached for the reason specified in [attach_code].

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: For [attach_code], ensure that all KS3DGxxx modules were successfully installed into the data sets specified on the STEPLIB and RKANMODL DD statements in the started task JCL for the monitoring server. Contact IBM Software Support.
**KS3G007E**  
**module_name** SDGCWRK GMEM FAILED [RETURN_CODE] - DSN GROUP COLLECTION TERMINATED

**Explanation:** This message indicates that an internal error has occurred. **module_name** could not obtain TEMS-managed storage within the address space to complete Dataset Group initialization.  
**System action:** Collection for data set groups is stopped until the monitoring server is restarted.  
**User response:** Ensure that sufficient storage has been specified during product configuration, as per the documented guidelines. If changing or increasing available storage does not correct the problem, contact IBM Software Support.

**KS3G008E**  
**module_name** DSN GROUP COLLECTION TERMINATED - OM2SM VECTOR TABLE NOT FOUND

**Explanation:** This message indicates that an internal error has occurred. The indicated control block could not be found by module **module_name**.  
**System action:** Collection for data set groups is stopped until the monitoring server is restarted.  
**User response:** Contact IBM Software Support.

**KS3G008W**  
**module_name** USER-SPECIFIED REFRESH INTERVAL LESS THAN MINIMUM; [interval] MINUTES SUBSTITUTED

**Explanation:** Data set group collection control contained a refresh interval value less than the minimum allowable interval of 5 minutes.  
**System action:** The indicated value is used as the refresh interval.  
**User response:** None, unless the specified substituted interval is not what is desired. In that case use the Dataset Group collection control dialog box to specify the desired interval, equal to or greater than 5 minutes.

**KS3G009W**  
**module_name** UNABLE TO DETERMINE RMF INTERVAL; DEFAULTING TO 15 MINUTES

**Explanation:** The RMF API was not available to use in determining the RMF interval currently in effect.  
**System action:** The interval for Dataset Group collection is set to 15 minutes.  
**User response:** None, unless the specified substituted interval is not what is desired. In that case determine why RMF is not active, and use the Dataset Group collection control dialog box to specify a specific desired interval.

**KS3G030E**  
**module_name** ALESERV MACRO REQUEST RC=[return_code,reason_code]

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group data space could not be created due to the indicated ALESERV error.  
**System action:** Collection for data set groups is stopped until the monitoring server is restarted.  
**User response:** Contact IBM Software Support.

**KS3G030I**  
**module_name** DSN GROUPS DATASPACE LOCATED AT [dataspace_origin] LENGTH [dataspace_length]K

**Explanation:** A data space has been allocated to contain Dataset Group entries; its origin address is [dataspace_origin] and is [dataspace_length] Kbytes.  
**System action:** None.  
**User response:** None. See message KS3G031I for additional data space identifying information. This is an informational message stored in the log file of the monitoring server, RKLVLOG.

**KS3G031E**  
**module_name** ESTAEX MACRO REQUEST RC=[return_code,reason_code]

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group collection subtask could not be initialized due to the indicated ESTAEX error.  
**System action:** Collection for data set groups is stopped until the monitoring server is restarted.  
**User response:** Contact IBM Software Support.

**KS3G031I**  
**module_name** DSN GROUPS DATASPACE ID=[dataspace_id], STOKEN=[dataspace_token]

**Explanation:** A data space has been allocated to contain Dataset Group entries; its ID is [dataspace_id] and its token value is [dataspace_token].  
**System action:** None.  
**User response:** None. See message KS3G030I for additional data space identifying information. This is an informational message stored in the log file of the monitoring server, RKLVLOG.

**KS3G032E**  
**module_name** DSPSERV MACRO REQUEST RC=[return_code,reason_code]

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group data space
could not be created due to the indicated DSPSERV error.

System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Contact IBM Software Support.

KS3G033E  module_name] Input Parm Error Forced Termination
Explanation: This message indicates that an internal error has occurred. The Dataset Group collection subtask could not be initiated.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Contact IBM Software Support.

KS3G034E  module_name] Storage Obtain Error Forced Termination
Explanation: This message indicates that an internal error has occurred. The Dataset Group collection subtask could not be initialized due to insufficient storage.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Ensure that sufficient storage has been specified during product configuration, as per the documented guidelines. If changing or increasing available storage does not correct the problem contact IBM Software Support.

KS3G035E  module_name] Unable to obtain GSA address - Terminating
Explanation: This message indicates that an internal error has occurred. The Dataset Group collection subtask could not be initialized.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Contact IBM Software Support.

KS3G036E  module_name] DSN Group Table Error - Reason=[reason_code]
Explanation: This message indicates that an internal error has occurred. The Dataset Group collection subtask could not be initialized due to the indicated reason code.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Contact IBM Software Support.

KS3G037E  [detecting_module] Build Error, missing [missing_module] module
Explanation: This message indicates that an internal error has occurred. The Dataset Group collection subtask could not be initialized because the indicated module could not be found.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Ensure that all KS3SGxxx modules were successfully installed into the data sets specified on the STEPLIB and RKANMODL DD statements in the started task JCL for the monitoring server. If the specified module is present in that library, contact IBM Software Support.

KS3G038E  module_name] Returned error, RC = [return_code]
Explanation: This message indicates that an internal error has occurred. The indicated Dataset Group collection subtask module returned the specified invalid code.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Contact IBM Software Support.

KS3G039E  module_name] Invalid interval value - [interval]
Explanation: This message indicates that an internal error has occurred. The indicated Dataset Group collection interval is not valid. Valid intervals are between 5 and 999 minutes.
System action: Dataset Group collection is stopped until the monitoring server is restarted.
User response: Check the collection interval value specified in the Dataset Group Collection Control dialog box and correct it if not valid. If it appears to be correct, contact IBM Software Support.

KS3G040E  module_name] LOAD FAILED FOR KDFRMFI
Explanation: This message indicates that an internal error has occurred. Collection for data set groups was specified or defaulted as RMF, however the OMEGAMON XE for Storage RMF interface module KDFRMFI could not be loaded.
System action: A 15 minute collection interval is used; processing continues.
User response: Ensure that module KDFRMFI was successfully installed into the data set specified on the RKANMODL DD statements in the started task JCL for the monitoring server. If so, contact IBM Software Support.
**KS3G041W • KS3G064E**

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**KS3G041W**  
(module_name) - RMF  
SYCHRONIZATION FAILED - RC=\[n\]  
COLLECTION INTERVAL DEFAULTING TO 15 MINUTES  

**Explanation:** This message indicates that an internal error has occurred. Collection for data set groups was specified or defaulted as RMF, however module (module_name) has not been able to synchronize recording with the RMF interval. RC=\[n\] indicates the reason that the recording interval defaulted to 15 minutes. Return codes are:  
- 0 - OK  
- 4 - Interval=0 from API  
- 8 - NO STGST address  
- 12 - NO RMF routine address  
- 16 - Parm area address in R1=0 on entry  
- 20 - RMF Routine address is dummy  
- 24 - Interval = 0 from control blocks  
- 28 - Interval less than 1 minute  
- 32 - Load failed for KDFDRMFI  
- 36 - KDFDRMFI entry point not found  

**System action:** A 15 minute collection interval is used; processing continues.  

**User response:** The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG. If this message persists and RMF monitor 1 is active contact IBM Software Support with the return code information.

---

**KS3G042E**  
ERROR DURING (module_name)  
SDUMPX PROCESSING,  
RC=sdump_return_code  

**Explanation:** An abend occurred in a Dataset Group module, however the attempt to take a dump failed with the indicated return code.  

**System action:** Abend processing continues.  

**User response:** Examine other console messages to determine if dump processing encountered an out of space or other identifiable condition. If a dump was produced examine it to determine the cause of the original abend. Contact IBM Software Support.

---

**KS3G060E**  
(module_name) DSN Group data collected is incomplete -  
RC=return_code  

**Explanation:** There is insufficient storage in the allocated data space to contain all of the data sets in all of the specified groups.  

**System action:** Data set group processing continues with the data sets that could be contained in the data space.  

**User response:** Examine the installation-specified maximum data space size and increase it if possible. Delete some data set groups or make them inactive. Remove some of the data set masks within the specified groups; Change the data set masks to limit the number of data sets selected from the catalog.

---

**KS3G061E**  
(module_name) Storage Obtain error,  
Data Collection terminating,  
RC=return_code  

**Explanation:** There is insufficient storage in the TEMS address space for the catalog interface to initialize.  

**System action:** Data set group processing for this collection cycle terminates.  

**User response:** Examine the space values specified for the TEMS address space and the OMEGAMON for Storage application in RKANPAR, and increase them if appropriate. If the messages in RKLVLOG indicate that storage is being allocated and not released over time, contact IBM Software Support.

---

**KS3G062E**  
(module_name) Input parameter error,  
Data Collection terminating,  
RC=return_code  

**Explanation:** This message indicates that an internal error has occurred. The catalog interface module was invoked with a parameter list that is not valid.  

**System action:** Data set group processing for this collection cycle terminates.  

**User response:** Contact IBM Software Support.

---

**KS3G063E**  
(module_name) Group definitions table error,  
Data Collection terminating,  
RC=return_code  

**Explanation:** This message indicates that an internal error has occurred. The catalog interface module detected an invalid control block.  

**System action:** Data set group processing for this collection cycle terminates.  

**User response:** Contact IBM Software Support.

---

**KS3G064E**  
(module_name) KS3SGCSI LOAD Error,  
Data Collection terminating,  
RC=return_code  

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group catalog interface could not be initialized because module KS3SGCSI could not be found.  

**System action:** Data set group processing for this collection cycle terminates.  

**User response:** Ensure that module KS3SGCSI was successfully installed into the data set specified on the RKANMODL DD statements in the started task JCL for
Chapter 15. KS3 Messages

KS3G066E [module_name] UNABLE TO OBTAIN GSA ADDRESS

**Explanation:** This message indicates that an internal error has occurred. The catalog interface module detected an invalid control block.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Contact IBM Software Support.

KS3G090E [module_name] LOAD FAILED FOR MODULE IGGCSI00, RC=[return_code], REASON CODE=[reason_code]

**Explanation:** This message indicates that an internal error has occurred. The DFSMS catalog interface module IGGCSI00 could not be loaded for the specified reason.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Ensure that module IGGCSI00 is in the LPA or Linklist and is loadable. If the module appears to be correct, contact IBM Software Support.

KS3G092E Data Retrieval Error, terminating with RC=[return_code]

**Explanation:** This message indicates that an internal error has occurred. The catalog interface module detected an error in the returned catalog data.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Contact IBM Software Support.

KS3G093E IGGCSI00 Returned Error, terminating with RC=[return_code]

**Explanation:** This message indicates that an internal error has occurred. The DFSMS catalog interface module IGGCSI00 returned an error. This could be due to insufficient storage in the address space or an error by the calling module.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Examine storage trace messages for the monitoring server that is provided in RKLVLOG. If there was insufficient storage in the address space at the time of the error, attempt to increase the storage available to the monitoring server. If this does not appear to be a storage-related error, contact IBM Software Support.

KS3G094E IGGCSI00 Load Error, terminating with RC=12

**Explanation:** This message indicates that an internal error has occurred. The DFSMS catalog interface module IGGCSI00 could not be loaded.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Ensure that module IGGCSI00 is in the LPA or Linklist and is loadable. If the module appears to be correct, contact IBM Software Support.

KS3G095E Storage Obtain Error, Terminating RC=12

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group catalog interface module could not obtain sufficient storage to continue processing.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Examine storage trace message for the monitoring server that is provided in RKLVLOG. If there was insufficient storage in the address space at the time of the error, attempt to increase the storage available to the monitoring server. If this does not appear to be an insufficient storage error, contact IBM Software Support.

KS3G096E Input Parameter Error, Terminating RC=12

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group catalog interface module was invoked with a parameter list that is not valid.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Contact IBM Software Support.

KS3G097E Environment Error, Terminating RC=12

**Explanation:** A previously reported error has caused data set group catalog processing to terminate.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Examine previous error messages to determine the nature of the original error. Contact IBM Software Support.

KS3G098E [module_name] LOAD FAILED FOR MODULE ASASYMBM, RC=[return_code], REASON CODE=[reason_code]

**Explanation:** This message indicates that an internal error has occurred. The catalog interface module ASASYMBM could not be loaded.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Contact IBM Software Support.
error has occurred. The z/OS symbolic data set name resolution module AMASYMBM could not be loaded for the specified reason.

**System action:** Data set group processing for this collection cycle terminates.

**User response:** Ensure that module AMASYMBM is in the LPA or Linklist and is loadable. If the module appears to be correct, contact IBM Software Support.

---

**KS3G120E** [module_name] UNABLE TO OBTAIN WORKAREA STORAGE

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group performance data collection module could not be initiated due to insufficient storage.

**System action:** Collection for data set groups is stopped until the monitoring server is restarted.

**User response:** Ensure that sufficient storage has been specified during product configuration, as per the documented guidelines. If changing or increasing available storage does not correct the problem contact IBM Software Support.

---

**KS3G121E** [module_name] MASTER CB ADDRESS NOT PASSED

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group performance data collection module was invoked with an invalid parameter list.

**System action:** Dataset Group collection is stopped until the monitoring server is restarted.

**User response:** Contact IBM Software Support.

---

**KS3G122E** [module_name] DSN GROUP MASTER CONTROL BLOCK FAILED VALIDATION

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group performance data collection module detected a control block that is not valid.

**System action:** Collection for data set groups is stopped until the monitoring server is restarted.

**User response:** Contact IBM Software Support.

---

**KS3G123E** [module_name] UNABLE TO OBTAIN GSA ADDRESS

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group performance data collection module could not be initialized.

**System action:** Collection for data set groups is stopped until the monitoring server is restarted.

**User response:** Contact IBM Software Support.

---

**KS3G124E** [module_name] UNABLE TO LOCATE ACTIVE DSN TABLE [pointer_name]

**Explanation:** This message indicates that an internal error has occurred. The Dataset Group performance data collection module could not be initialized.

**System action:** Collection for data set groups is stopped until the monitoring server is restarted.

**User response:** Contact IBM Software Support.

---

**KS3G125W** [module_name] PERFORMANCE SUBSYSTEM NOT FOUND

**Explanation:** The Dataset Group performance data collection module was unable to communicate with the OMEGAMON subsystem that actually collects the performance data.

**System action:** Collection for data set groups continues without data set performance data.

**User response:** Start the OMEGAMON subsystem to be able to view data set-level performance metrics.

---

**KS3G126E** [module_name] KDFXRPRF FAILED WITH RC/REAS: [return_code/reason_code]

**Explanation:** The Dataset Group performance data collection module received the indicated return and reason codes from the OMEGAMON subsystem.

**System action:** Collection for data set groups continues without data set performance data.

**User response:** Contact IBM Software Support.

---

**KS3G127E** [module_name] KDFXRPRF FAILED TO RETURN A BUFFER

**Explanation:** The Dataset Group performance data collection module did not receive any data from the OMEGAMON subsystem.

**System action:** Collection for data set groups continues without data set performance data.

**User response:** Contact IBM Software Support.

---

**KS3G128E** [module_name] ABENDED

**Explanation:** The Dataset Group performance data collection module abended.

**System action:** Collection for data set groups is stopped until the monitoring server is restarted.

**User response:** Examine other messages to determine the exact nature of the abend and contact IBM Software Support.
KS3G150E  [module_name] UNABLE TO OBTAIN WORKAREA STORAGE
Explanation: This message indicates that an internal error has occurred. The Dataset Group space data collection module could not be initialized due to insufficient storage.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Ensure that sufficient storage has been specified during product configuration, as per the documented guidelines. If changing or increasing available storage does not correct the problem contact IBM Software Support.

KS3G151E  [module_name] MASTER CB ADDRESS NOT PASSED
Explanation: This message indicates that an internal error has occurred. The Dataset Group space data collection module was invoked with a parameter list that is not valid.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Contact IBM Software Support.

KS3G152E  [module_name] UNABLE TO LOCATE DSN GROUP MASTER CONTROL BLOCK
Explanation: This message indicates that an internal error has occurred. The Dataset Group space data collection module detected a control block that is not valid.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Contact IBM Software Support.

KS3G153E  [module_name] UNABLE TO OBTAIN GSA ADDRESS
Explanation: This message indicates that an internal error has occurred. The Dataset Group space data collection module could not be initialized.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Contact IBM Software Support.

KS3G155E  [module_name] UNABLE TO LOCATE ACTIVE DSN TABLE [pointer_name]
Explanation: This message indicates that an internal error has occurred. The Dataset Group space data collection module could not be initialized.
System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Contact IBM Software Support.

KS3G156E  [module_name] ABENDED
Explanation: The Dataset Group space data collection module abended.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Examine other messages to determine the exact nature of the abend and contact IBM Software Support.

KS3G157E  [module_name] ABENDED
Explanation: The Dataset Group space data collection module abended.
System action: Collection for data set groups is stopped until the monitoring server is restarted.
User response: Examine other messages to determine the exact nature of the abend and contact IBM Software Support.

KS3G180W  [module_name] VTOC READ PROCESSING TERMINATED FOR VOLUME [volser]; RESERVED BY ANOTHER JOB/USER
Explanation: The specified volume is reserved for exclusive use by a job on either this or another system.
System action: Space collection for the current data set is skipped, and processing continues with the next data set.
User response: None. However, if the specified volume was known to be available and not reserved at the time this message was issued, contact IBM Software Support.

KS3G181E  [module_name] VTOC DATASET/VOLUME MISMATCH
Explanation: The VTOC record for a volume did not match the volser.
System action: Space collection for the current data set is skipped, and processing continues with the next data set.
User response: Check the validity of the VTOC using another utility (e.g. ISPF 3.4; IEHLIST). If it appears to be correct, contact IBM Software Support.

KS3G182E  [module_name] CVAFFILT FAILED; RC=[cvaf_return_code]
Explanation: The specified CVAF error was encountered while attempting to read the VTOC for a volume.
System action: Space collection for the current data set is skipped, and processing continues with the next data set.
User response: Contact IBM Software Support.
set is skipped, and processing continues with the next data set.

User response: Check the validity of the VTOC using another utility (e.g. ISPF 3.4; IEHLIST). If it appears to be correct, contact IBM Software Support.

---

KS3G184E [module_name] UNABLE TO LOCATE [DSCB|UCB] FOR [datasetname] ON [volser]

Explanation: Either the FORMAT 1 DSCB for the specified data set or the UCB for volume upon which it resides could not be obtained.

System action: Space collection for the current data set is skipped, and processing continues with the next data set.

User response: Ensure that the data set actually exists on the volume, as indicated by its catalog entry. If so, check the validity of its VTOC entry using another utility (e.g. ISPF 3.4; IEHLIST). If it appears to be correct, contact IBM Software Support.

---

KS3G500E [module_name] UNABLE TO OBTAIN WORKAREA STORAGE

Explanation: This message indicates that an internal error has occurred. The Dataset Group summary module could not be initialized due to insufficient storage.

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Ensure that sufficient storage has been specified during product configuration, as per the documented guidelines. If changing or increasing available storage does not correct the problem contact IBM Software Support.

---

KS3G201E [module_name] MASTER CB ADDRESS NOT PASSED

Explanation: This message indicates that an internal error has occurred. The Dataset Group summary module was invoked with a parameter list that is not valid.

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Contact IBM Software Support.

---

KS3G202E [module_name] DSN GROUP MASTER CONTROL BLOCK FAILED VALIDATION

Explanation: This message indicates that an internal error has occurred. The Dataset Group summary module detected a control block that is not valid.

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Examine other messages to determine the exact nature of the abend and contact IBM Software Support.

---

KS3G203E [module_name] UNABLE TO OBTAIN GSA ADDRESS

Explanation: This message indicates that an internal error has occurred. The Dataset Group summary module could not be initialized.

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Contact IBM Software Support.

---

KS3G204E [module_name] UNABLE TO LOCATE [control_block_name]

Explanation: This message indicates that an internal error has occurred. The Dataset Group summary module could not be initialized.

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Contact IBM Software Support.

---

KS3G205E [module_name] UNABLE TO ALLOCATE SUMMARY TABLE STORAGE

Explanation: This message indicates that an internal error has occurred. The Dataset Group summary module could not be initialized due to insufficient storage.

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Ensure that sufficient storage has been specified during product configuration, as per the documented guidelines. If changing or increasing available storage does not correct the problem contact IBM Software Support.

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KS3G207E [module_name] ABENDED

Explanation: The Dataset Group summary module abended.

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Examine other messages to determine the exact nature of the abend and contact IBM Software Support.

---

KS3G208E [module_name] ABENDED

Explanation: The Dataset Group summary module abended.

System action: Collection for data set groups is stopped until the monitoring server is restarted.

User response: Examine other messages to
determine the exact nature of the abend and contact IBM Software Support.

**KS3G230E**  
**Module:** PROCESS CONTROLS  
**Error, Reason:** [reason_code]  
**Explanation:** This message indicates that an internal error has occurred. The Dataset Group detail module was invoked with a parameter list that is not valid.  
**System Action:** Dataset Group detail reporting is ended for the current request.  
**User Response:** Contact IBM Software Support.

**KS3G231E**  
**Module:** DSN Group Collector  
**Disabled**  
**Explanation:** A request was made to display detail information about a data set group data set. Either the first collection cycle has not yet completed (e.g. if RMF or interval collection was specified and the interval has not yet expired), or a previous error has caused the data set group collection function to be disabled.  
**System Action:** Dataset Group detail reporting is ended for the current request.  
**User Response:** Wait until the specified interval expires before attempting to obtain data set group summary information. Examine the RKLVLOG for other KS3Gnnnn messages to determine if an error has caused collection to be disabled. If so, contact IBM Software Support.

**KS3G233E**  
**Module:** DSN Group Collection  
**Terminating/Stopped**  
**Explanation:** A request was made to display details about a data set group data set, however a previous error has caused the data set group collection function to terminate.  
**System Action:** Dataset Group detail reporting is ended for the current request.  
**User Response:** Examine the RKLVLOG to determine the original error that caused collection to terminate. Contact IBM Software Support.

**KS3G235E**  
**Module:** STORAGE OBTAIN ERROR,  
**Reason:** [reason_code]  
**Explanation:** A request was made to display details about a data set group data set, however sufficient storage could not be obtained to complete the request.  
**System Action:** Dataset Group detail reporting is ended for the current request.  
**User Response:** Examine storage trace message for the monitoring server that is provided in RKLVLOG. If there was insufficient storage in the address space at the time of the error, attempt to increase the storage available to the TEMS. If this does not appear to be an insufficient storage error, contact IBM Software Support.

**KS3G236E**  
**Module:** PARAMETER ERROR,  
**Reason:** [reason_code]  
**Explanation:** This message indicates that an internal error has occurred. The Dataset Group detail module was invoked with a parameter list that is not valid.  
**System Action:** Dataset Group detail reporting is ended for the current request.  
**User Response:** Contact IBM Software Support.

**KS3G237E**  
**Module:** SUMMARY TABLE  
**Error, Reason:** [reason_code]  
**Explanation:** This message indicates that an internal error has occurred. The Dataset Group summary module was invoked with a parameter list that is not valid.  
**System Action:** Dataset Group summary reporting is ended for the current request.  
**User Response:** Contact IBM Software Support.

**KS3G260E**  
**Module:** PROCESS CONTROLS  
**Error, Reason:** [reason_code]  
**Explanation:** This message indicates that an internal error has occurred. The Dataset Group summary module was invoked with a parameter list that is not valid.  
**System Action:** Dataset Group summary reporting is ended for the current request.  
**User Response:** Wait until the specified interval expires before attempting to obtain data set group summary information. Examine the RKLVLOG for other KS3Gnnnn messages to determine if an error has caused collection to be disabled. If so, contact IBM Software Support.

**KS3G261E**  
**Module:** DSN Group Collector  
**Disabled**  
**Explanation:** A request was made to display summary information about a data set group. Either the first collection cycle has not yet completed (e.g. if RMF or interval collection was specified and the interval has not yet expired), or a previous error has caused the data set group collection function to be disabled.  
**System Action:** Dataset Group summary reporting is ended for the current request.  
**User Response:** Wait until the specified interval expires before attempting to obtain data set group summary information. Examine the RKLVLOG for other KS3Gnnnn messages to determine if an error has caused collection to be disabled. If so, contact IBM Software Support.
KS3G262E [module_name] DSN Group Collection Terminating/Stopped

Explanation: A request was made to display summary information about a data set group, however a previous error has caused the data set group collection function to terminate.

System action: Dataset Group summary reporting is ended for the current request.

User response: Examine the RKLVLOG to determine the original error that caused collection to terminate. Contact IBM Software Support.

KS3G264E DSN Group On-Demand Collection Timeout

Explanation: A request was made to display summary information about a data set group, however the request could not complete because collection is currently in progress.

System action: Dataset Group summary reporting is ended for the current request.

User response: Retry the request when collection has completed. If collection seems to be hung or looping, gather diagnostic data, restart the monitoring server and contact IBM Software Support.

KS3G265E [module_name] PARAMETER ERROR, REASON: [reason_code]

Explanation: This message indicates that an internal error has occurred. The Dataset Group summary module was invoked with a parameter list that is not valid.

System action: Dataset Group summary reporting is ended for the current request.

User response: Contact IBM Software Support.

KS3G266E STORAGE OBTAIN ERROR, REASON: [reason_code]

Explanation: A request was made to display summary information about a data set group, however sufficient storage could not be obtained to complete the request.

System action: Dataset Group summary reporting is ended for the current request.

User response: Examine storage trace message for the monitoring server that is provided in RKLVLOG. If there was insufficient storage in the address space at the time of the error, attempt to increase the storage available to the TEMS. If this does not appear to be an insufficient storage error, contact IBM Software Support.

KS3G269E module_name was unable to add group name [group_name]

Explanation: The specified new group_name could not be added because a group with that name already exists.

System action: The new group is not added.

User response: Specify a different group name for the data set group being created.

KS3G271E module_name was unable to acquire lock for Group Mask table rc=[retcode]

Explanation: This message indicates that an internal error has occurred. A new group could not be added because an internal table lock could not be obtained.

System action: The new group is not added.

User response: Contact IBM Software Support.

KS3G272E module_name internal lock error for Group Mask table rc=[retcode]

Explanation: This message indicates that an internal error has occurred. A new group could not be added because an internal table lock could not be obtained.

System action: The new group is not added.

User response: Contact IBM Software Support.

KS3G273E module_name [table_name] table create rc=[retcode]

Explanation: This message indicates that an internal error has occurred. The specified group could not be added because of an error creating the persistent table.

System action: The new group is not added.

User response: Contact IBM Software Support.

KS3G274E module_name [table_name] table open rc=[retcode]

Explanation: This message indicates that an internal error has occurred. The specified group could not be added because of an error opening the persistent table.

System action: The new group is not added.

User response: Contact IBM Software Support.

KS3G275E module_name [table_name] Error: Vdefcol for col# [column_number] rc=[retcode]

Explanation: This message indicates that an internal error has occurred. The specified group could not be added because of an error defining a column in the persistent table.

System action: The new group is not added.
User response: Contact IBM Software Support.

KS3G413E [module_name] [table_name] table create rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The specified group could not be added because of an error creating the persistent table.
System action: The new group is not added.
User response: Contact IBM Software Support.

KS3G431E [module_name] was unable to acquire lock for Collection Interval table create rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The collection control table could not be updated because an internal table lock could not be obtained.
System action: The collection control table is not updated.
User response: Contact IBM Software Support.

KS3G432E [module_name] internal lock error for Collection Interval table create rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The collection control table could not be updated because an internal table lock could not be obtained.
System action: The collection control table is not updated.
User response: Contact IBM Software Support.

KS3G433E [module_name] [table_name] table create rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The collection control table could not be updated because of an error creating the persistent table.
System action: The collection control table is not updated.
User response: Contact IBM Software Support.

KS3G434E [module_name] [table_name] table open rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The collection control table could not be updated because of an error opening the persistent table.
System action: The collection control table is not updated.
User response: Contact IBM Software Support.

KS3G435E [module_name] [table_name] Error: Vdefcol for col# [column_number] rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The specified group could not be added because of an error defining a column in the persistent table.
System action: The new group is not added.
User response: Contact IBM Software Support.

KS3G437E [module_name] Validate: Collection type invalid = [invalid_type]
Explanation: This message indicates that an internal error has occurred. A collection type that is not valid was found in the table.
System action: The collection control table is not updated.
User response: Contact IBM Software Support.

KS3G453E [module_name] [table_name] table create rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The collection control table could not be updated because of an error creating the persistent table.
System action: The collection control table is not updated.
User response: Contact IBM Software Support.

KS3G454E [module_name] [table_name] table open rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The collection control table could not be updated because of an error opening the persistent table.
System action: The collection control table is not updated.
User response: Contact IBM Software Support.

KS3G455E [module_name] [table_name] Error: Vdefcol for col# [column_number] rc=[retcode]
Explanation: This message indicates that an internal error has occurred. The specified group could not be added because of an error defining a column in the persistent table.
System action: The new group is not added.
User response: Contact IBM Software Support.
KS3G503I

**DYNAMIC GROUP AGENT INITIALIZED**

**Explanation:** The Dynamic Group Agent function is starting.

**System action:** None.

**User response:** None. This is an informational message.

KS3G504E  

[module_name] was unable to add static group [group_name].

**Explanation:** The specified static group could not be added because a dynamic group with that name already exists.

**System action:** The specified static group is not added.

**User response:** Specify a different group name for the static group being created.

KS3G505E  

[module_name] was unable to add or update dynamic group [group_name].

**Explanation:** This message indicates that an internal error has occurred adding or updating the specified group in the persistent table.

**System action:** The specified dynamic group is not added or updated.

**User response:** Contact IBM Software Support.

KS3G507E  

[module_name] [table_name] table delete rc=[retcode]

**Explanation:** This message indicates that an internal error has occurred while deleting a row in the persistent data store table.

**System action:** The dynamic group persistent table row is not deleted.

**User response:** Contact IBM Software Support.

KS3G508E  

[module_name] [table_name] table write rc=[retcode]

**Explanation:** This message indicates that an internal error has occurred while writing a row in the persistent data store table.

**System action:** The dynamic group persistent table row is not written.

**User response:** Contact IBM Software Support.

KS3G509E  

[module_name] [table_name] Error: vdefcol for, col# [column_number], rc=[retcode]

**Explanation:** This message indicates that an internal error has occurred. A group could not be added, updated, or deleted because of an error defining a column in the persistent table.

**System action:** The specified group is not added, updated or deleted.

**User response:** Contact IBM Software Support.

KS3G510E  

[module_name] [table_name] table create, rc=[retcode]

**Explanation:** This message indicates that an internal error has occurred creating the persistent table.

**System action:** The dynamic group persistent table is not created.

**User response:** Contact IBM Software Support.

KS3G511E  

[module_name] [table_name] table open rc=[retcode]

**Explanation:** This message indicates that an internal error has occurred opening the persistent table.

**System action:** The dynamic group persistent table is not opened.

**User response:** Contact IBM Software Support.

KS3G512E  

[module_name] [table_name] table close rc=[retcode]

**Explanation:** This message indicates that an internal error has occurred closing the persistent table.

**System action:** The dynamic group persistent table is not closed.

**User response:** Contact IBM Software Support.

KS3G513E  

[module_name] was unable to delete dynamic group [group_name]

**Explanation:** This message indicates that an internal error has occurred deleting the specified group from the persistent table.

**System action:** The specified dynamic group is not deleted.

**User response:** Contact IBM Software Support.

KS3I001W  

KS3IAPDS: SUBSYSTEM TOKEN ZERO: APPLICATION NOT INSERTED

**Explanation:** KS3IAPDS was unable to add an application for data-set-level monitoring, because an internal error occurred.

**System action:** The new application is not monitored at the level of a data set.

**User response:** Check to see that the subsystem ID for the Tivoli Subsystem has been defined in member IEFSSNxx of SYS1.PARMLIB. This subsystem ID is
KS3L000I  Args = [arguments]

Explanation: These are the arguments that were passed to the Launch Application arguments.

Programmer response: This displays the arguments as they were passed to the Launch Application.

KS3L001E Invalid parameter [invalid-parm]

Explanation: An invalid parameter of [invalid-parm] was entered to the Launch Application. This message is part of a multiline message when an invalid parameter is entered.
- KS3L001E Invalid parameter invalid-parm
- KS3L002I Ensure that entries with embedded blanks are enclosed with double quotation marks
- KS3L003I Example: -location="C:\Program files\Internet Explorer\iexplore.exe"

Programmer response: While validating the parameters passed to the Launch Application an invalid parameter was detected.

KS3L002I Ensure that entries with embedded blanks are enclosed with double quotation marks

Explanation: This message is part of a multiline message when a parameter that is not valid is entered.
- KS3L001E Invalid parameter invalid-parm
- KS3L002I Ensure that entries with embedded blanks are enclosed with double quotation marks
- KS3L003I Example: -location="C:\Program files\Internet Explorer\iexplore.exe"

KS3L003I Example: -location="C:\Program files\Internet Explorer\iexplore.exe"

Explanation: This message is part of a multiline message when a parameter that is not valid is entered.
- KS3L001E Invalid parameter invalid-parm
- KS3L002I Ensure that entries with embedded blanks are enclosed with double quotation marks
- KS3L003I Example: -location="C:\Program files\Internet Explorer\iexplore.exe"

KS3L0042E [module name] CANNOT ACCESS COLUMN NAME

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L0045E [module name] JOBNAME NOT SUPPLIED

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L0046E [module name] CANNOT ACCESS COLUMN NAME

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L0043E [module name] DSN WORK INVALID

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L0044E [module name] KDFXAPPL REQUEST ERROR - CN RC = [subsys-rc], KDFX RC = [appl-rc]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L0045E [module name] JOBNAME NOT SUPPLIED

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L0046E [module name] CANNOT ACCESS COLUMN NAME

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L0043E [module name] DSN WORK INVALID

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KS3L0047E • KS3L0064E

KS3L0047E [module name] PRODUCE VALUE FOR INSERT VALUE FAILED

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L0048E [module name] INVALID GROUP NAME SPECIFIED

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L004I Request must be either -remove or -change

Explanation: The required request must be one of the following

• -remove to remove or delete launch points
• -change to insert or change launch points

KS3L0051E [module name] INVALID MONITOR STATUS SPECIFIED

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L005E Request update(insert) requires -loc and -url parameters

Explanation: To insert new launch points use both:

• -loc to supply the location
• -url to supply the http address

KS3L0060E [module name] SRB DRIVER FAILED, RC = [rc]

Explanation: An attempt to schedule an SRB failed with the return code [rc]. The data returned from the SRB routine will not be available.

User response: Contact IBM Software Support.

KS3L0061W [module name]: HOST ID [hsm host] [text]

Explanation: A DFSMShsm HSM host is either missing from the CRQ node table or the data associated with the entry for the HSM host is incorrect. Details are explained by the [text] of the message. CRQ information for this HSM host is not available.

User response: This problem can occur if HSM hosts are being stopped or started. If the problem persists, contact IBM Software Support.

KS3L0062W [module name]: RETURN CODE [return code] RECEIVED FROM [routine] CALL

Explanation: A call to the routine [routine] resulted in a non-zero return code [return code]. Further information should be supplied in messages issued by the routine that returned the non-zero return code.

User response: Follow the instructions associated with the messages issued by the routine returning the non-zero return code.

KS3L0063E [module name]: NO RETURN AREA FROM [routine] CALL

Explanation: A call to the routine [routine] resulted in a zero return code; however, the reply buffer was not supplied.

User response: Contact IBM Software Support.

KS3L0064E [module name]: UNABLE TO ALLOCATE [nnn] BYTES OF STORAGE, RC = [rc]

Explanation: An attempt to SGMEM [nnn] bytes of storage failed with RC = [rc]. Processing for this function terminates.

User response: Contact IBM Software Support.
KS3L0065E  [module name]: GET PARM FOR INDEX
FAILED, RC = [return code]

Explanation: An attempt to retrieve an index column failed with return code [return code]. Processing for the function terminates.

User response: Contact IBM Software Support.

KS3L0066W  [module name]: CRQ TABLE FILLED, [entries]

Explanation: An internal table of CRQplex base names has overflowed. The extra CRQ entries will not be processed.

System action: Tivoli OMEGAMON XE for Storage on z/OS continues. However, some data will be missing.

User response: Contact IBM Software Support.

KS3L0067E  [module name]: RC [rc] RECEIVED FROM CONVTOD REQUEST, INPUT DATA = [data]

Explanation: A call to the CONVTOD service (the convert to time of day clock format service) returned a non-zero return code, [rc]. The input data is given as four full words of data, [data].

System action: Tivoli OMEGAMON XE for Storage on z/OS continues. However, any data relying on date and time conversion in the identified module will be omitted.

User response: Contact IBM Software Support for assistance.

KS3L0068W  [module name]: [action] HSM HOST [host-id] NOT FOUND IN HOST/NODE TABLE

Explanation: An attempt to find the HSM Host with ID [host-id] in the internal host/node table was not successful. Action [action] indicates whether this was the originating or processing host for a request on the common recall queue.

System action: Tivoli OMEGAMON XE for Storage on z/OS continues. However, data associated with the HSM host will not be available for this request.

User response: This situation can be transient in nature if the HSM host has been recently started and the internal host/node table has not run through a refresh cycle. If this condition persists for over 30 minutes, contact IBM Software Support for assistance.

KS3L0069E  [module name] Unable to acquire view storage

Explanation: The probe modname failed to acquire storage to complete a request for data.

System action: No information is retrieved for this request.

User response: Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This can also require an increase in region size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

KS3L0067I  Issue updates using -loc or -url parameters

Explanation: To update an existing launch point one or both can be supplied.

- -loc to supply the location
- -url to supply the http address

KS3L007E  [modname] Unable to acquire address/size of Application Table

Explanation: A call to the KS3CGAT program returned a non-zero return code. The call originated from module [modname].

System action: All application monitoring fails.

User response: Contact IBM Software Support.

KS3L007I  Issue updates using URL= [url] explore loc= [location]

Explanation: The launch points are updated by using the url and location that were entered by the user.

KS3L007E  Unable to allocate storage for new application entry

Explanation: An attempt to add an application for monitoring has failed because there is insufficient Tivoli Enterprise Monitoring Server Engine storage available.

System action: The requested application is not added to the list of monitored applications.

User response: Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This error can also require an increase in region size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

KS3L008I  Issue updates using explore loc= [location]

Explanation: The launch points are updated using the location that were entered by the user.

KS3L009E  [modname] Unable to acquire ASID work area of [nnnnnn] bytes

Explanation: An application monitoring request has failed because there is insufficient Tivoli Enterprise Monitoring Server Engine storage available. [nnnnnn]
indicates the number of bytes requested.

**System action:** All application monitoring fails.

**User response:** Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This can also require an increase in region size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

---

**KS3L009I** Issue updates using URL=[url]

**Explanation:** The launch points are updated using the [url] that was entered by the user.

---

**KS3L010E** [modname] Unable to acquire address of Application Name Table

**Explanation:** A call to program KS3CGPTR has failed. The call originated from module [modname].

**System action:** All application monitoring fails.

**User response:** Contact IBM Software Support.

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**KS3L011E** Launch points with host=[host_address] location=[location] URL=[url]

**Explanation:** This displays the arguments entered by the user to the Launch Application.

---

**KS3L011E** [modname] Unable to allocate storage for the Application Name Table

**Explanation:** An attempt to allocate storage from the Tivoli Enterprise Monitoring Server Engine pool was unsuccessful. The call originated from module [modname].

**System action:** Application monitoring is not available in the Tivoli Enterprise Portal.

**User response:** Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This error can also require an increase in region size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

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**KS3L011I** Processing [count] of [total]

**Explanation:** This shows the progress of the Launch Application processing the launch points.

---

**KS3L012E** [modname] Unable to allocate [nnnn] bytes storage for [xxx] volume/dataset work table

**Explanation:** An attempt to allocate storage from the Tivoli Enterprise Monitoring Server Engine pool was unsuccessful. Possible values for [modname] include KS3LAPDD and KS3LAPVP.

**System action:** Application monitoring data set and volume details information are unavailable until the problem is corrected.

**User response:** Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This can also require an increase in region size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

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**KS3L012I** Launch points completed

**Explanation:** This indicates the completion of the Launch Application processing.

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**KS3L014E** [module name] Invalid or missing WHERE clause

**Explanation:** An SQL request was received that requires a WHERE clause, but none was found. Possible values for [module name] include:

- KS3LAPDD
- KS3LAPVP
- KS3LAPVS

**System action:** This SQL request fails.

**User response:** If you have modified the supplied SQL, be sure you still have a valid WHERE clause. Otherwise, contact IBM Software Support.

---

**KS3L015E** [module name] Unable to allocate storage for node table

**Explanation:** An attempt to allocate storage from the Tivoli Enterprise Monitoring Server Engine pool was unsuccessful. Possible values for modname include KS3LXSUM and KS3LXSYS.

**System action:** Cross-system DASD monitoring is unavailable in Tivoli Enterprise Portal until the problem is corrected.

**User response:** Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This can also require an increase in region size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

---

**KS3L016E** [module name] Unable to allocate storage for volume table

**Explanation:** An attempt to allocate storage from the Tivoli Enterprise Monitoring Server Engine pool was unsuccessful. Possible values for [module name] include KS3LXSUM and KS3LXSYS.

**System action:** Cross-system DASD monitoring is unavailable in Tivoli Enterprise Portal until the problem is corrected.

**User response:** Increase the value specified in the MINIMUM parameter of the KDSSYSIN RKANPAR member. This can also require an increase in region size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.
size if the Tivoli Enterprise Monitoring Server startup proc does not specify REGION=0M.

KS3L017E [module name]: - REQUEST FOR HISTORICAL DATA FAILED - [reason]

Explanation: Module [module name] has detected a problem while attempting to retrieve historical data. The retrieval of historical data is unsuccessful due to the given reason.

System action: Tivoli OMEGAMON XE for Storage on z/OS continues without returning historical data.

User response: Contact IBM Software Support.

KS3L018E [module name]: FETCH FAILED FOR pds table TABLE; RC = [return code] -- DATA RETRIEVAL FROM PDS TERMINATING

Explanation: Module [module name] received return code [return code] when attempting to retrieve data from the historical table pds table.

System action: Tivoli OMEGAMON XE for Storage on z/OS continues without returning historical data.

User response: Contact IBM Software Support.

KS3L019E [module name]: INVALID pds table RECORD DETECTED, HEADER = [header]

Explanation: Module [module name] retrieved a record from historical table pds table and found the heading information to be not valid. The invalid data, header, is printed as part of the message.

System action: Tivoli OMEGAMON XE for Storage on z/OS continues without returning historical data.

User response: Contact IBM Software Support.

KS3L020E [module name]: IOSCHPD RETURN CODE = [rc], REASON CODE = [rs]

Explanation: Module [module name] called the IOSCHPD service and which came back with return code [rc] and reason code [rs].

System action: Processing continues but the Description field in the Channel Path workspace may be missing or inaccurate.

User response: Contact IBM Software Support.

KS3L021E [modname] Unable to acquire address of Application Name Count Anchor

Explanation: A call to the KS3CGPTR program has failed. The call originated from module [modname].

System action: All application monitoring fails.

KS3L022E [modname] Unable to acquire address of Application Master Block

Explanation: A call to the KS3CGPTR program has failed. The call originated from module [modname].

System action: All application monitoring fails.

User response: Contact IBM Software Support.

KS3L023E [modname] Data server parameter list not found

Explanation: While servicing a query, the locator program responsible for returning the data was unable to find the incoming parameter list passed by the data server.

System action: The query fails and no data is returned.

User response: Contact IBM Software Support.

KS3L032E [modname] UNABLE TO LOCATE [workarea]

Explanation: [workarea] can be any of OM2SM VECTOR | S3 PRODUCT VECTOR | S3 NODE WORKAREA | CHANNEL PATH WORK AREA | DEVICE WORKAREA | CCU VECTOR | RAID VECTOR | SYMMETRIX VECTOR, This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3L040E [detecting_module] CANNOT GET WORKG STORAGE

Explanation: This message indicates that an internal error has occurred. The indicated module was unable to allocate storage for its work area.

System action: The requested data requested is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the Tivoli Enterprise Monitoring Server log, RKLVLOG, to determine if there is a storage shortage in the Tivoli Enterprise Monitoring Server. If possible, increase the amount of storage available to the Tivoli Enterprise Monitoring Server. If there appears to be sufficient storage available in the Tivoli Enterprise Monitoring Server, contact IBM Software Support.
KS3L041E [detecting_module] PUT_PARM FAILURE FOR WORKG

Explanation: This message indicates that an internal error has occurred. The indicated module was unable to set a required parameter.

System action: The data requested is not returned for display at the Tivoli Enterprise Portal.


KS3L042E [detecting_module] UNABLE TO OBTAIN GLOBAL ANCHOR

Explanation: This message indicates that an internal error has occurred. The indicated module was unable to locate a required control block.

System action: The data requested is not returned for display at the Tivoli Enterprise Portal.


KS3L043E [detecting_module] W#DEVWRK AREA NOT AVAILABLE

Explanation: This message indicates that an internal error has occurred. The indicated module was unable to locate a required control block.

System action: The data requested is not returned for display at the Tivoli Enterprise Portal.


KS3L044E [detecting_module] UNABLE TO ACCESS SUMMVCT AREA

Explanation: This message indicates that an internal error has occurred. The indicated module was unable to locate a required control block.

System action: The data requested is not returned for display at the Tivoli Enterprise Portal.


KS3L045E [detecting_module] PUT_PARM FAILURE FOR JVAL

Explanation: This message indicates that an internal error has occurred. The indicated module was unable to set a required parameter.

System action: The data requested is not returned for display at the Tivoli Enterprise Portal.


KS3L603E [modname] An abend (code = [return_code]) is caught by KLE_FrrSet in [function]

Explanation: This message indicates that an internal error has occurred. An abend occurred during Application Summary processing.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3LHREQ KDFHMWE MAX MWES REACHED

Explanation: Displays in the RKLVLOG file when the management work elements (MWEs) that DFSMShsm builds exceed the maximum amount that Tivoli OMEGAMON XE for Storage on z/OS is capable of capturing.

System action: The returned HSM request data is truncated.

User response: None. This message is informational. The destination is the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG.

KS3R050I RMM SUMMARY COLLECTION S3RM [command_function] COMMAND RECEIVED

Explanation: An S3RM command with the indicated command_function was received by the RMM command processor.

System action: Command processing continues.

User response: None. This is an informational message.
KS3R051I  RMM SUMMARY COLLECTION S3RM
[command_function] COMMAND
PROCESSED
Explanation: An S3RM command with the indicated
command_function was processed by the RMM
command processor.
System action: The action requested by
[command_function] is performed.
User response: None. This is an informational
message.

KS3R052W  RMM SUMMARY COLLECTION S3RM
[command_function] COMMAND
COULD NOT BE PROCESSED
Explanation: An S3RM command with the indicated
command_function was issued but cannot be
processed.
System action: None. The command is not
processed.
User response: Examine other messages in the
ITMS:Engine log, RKLVLOG, to determine why the
command cannot be processed.

KS3R053E  RMM SUMMARY COLLECTION S3RM
COMMAND FUNCTION NOT SPECIFIED
Explanation: An S3RM command was issued without
a command function. Valid command functions are
displayed in a subsequent message.
System action: None. The command is not
processed.
User response: Examine subsequent messages in the
ITMS:Engine log, RKLVLOG, to determine valid
command functions and reissue the S3RM command.

KS3R054E  RMM SUMMARY COLLECTION S3RM
COMMAND FUNCTION INVALID OR
OMITTED
Explanation: An S3RM command was issued with a
missing or invalid command function. Valid command
functions are displayed in a subsequent message.
System action: None. The command is not
processed.
User response: Examine subsequent messages in the
ITMS:Engine log, RKLVLOG, to determine valid
command functions and reissue the S3RM command.

KS3R055I  VALID S3RM COMMAND FUNCTIONS:
[ list of command functions ]
Explanation: The valid S3RM command functions are
listed:

KS3R056E  RMM SUMMARY COLLECTION S3RM
COMMAND IGNORED; MASTER
CONTROL BLOCK NOT FOUND
Explanation: An S3RM command was issued,
however the RMM function has either not yet initialized
or has been terminated.
System action: None. The command is not
processed.
User response: Examine previous messages in the
ITMS:Engine log, RKLVLOG, to determine if an earlier
error or S3RM command caused RMM processing to be
terminated.

KS3R057W  RMM SUMMARY COLLECTION S3RM
START COMMAND IGNORED;
COLLECTION IN PROGRESS
Explanation: An S3RM START command was issued,
however RMM Summary collection is already in
progress.
System action: None. The command is not processed
and collection continues.
User response: None.

KS3R058W  RMM SUMMARY COLLECTION S3RM
STOP COMMAND IGNORED;
COLLECTION NOT RUNNING
Explanation: An S3RM STOP command was issued,
however RMM Summary collection is not in progress.
System action: None. The command is not processed.
User response: None.

KS3R059I  RMM SUMMARY COLLECTION
STATUS: [ list of values ]
Explanation: An S3RM STATUS command was issued. The
current status of RMM Summary collection is displayed. The following are valid values:
CURRENT STATE: [ collection_state ]
RMM VOLUMES PROCESSED: [ generated_tasks ]
RMM DATASETS PROCESSED: [ processed_datasets ]
System action: None.
User response: None. Informational message only.
KS3R100I • KS3R113E

KS3R100I  RMM COLLECTION CONTROL AGENT INITIALIZED
Explanation:  The RMM Collection Control Agent function is starting.
System action: None.
User response: None. This is an informational message.

KS3R101E [module_name] OM2SM VECTOR NOT FOUND
Explanation:  This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module_name].
System action: Processing is halted.
User response: Contact IBM Software Support.

KS3R102E [module_name] S3 VECTOR NOT FOUND
Explanation:  This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module_name].
System action: Processing is halted.
User response: Contact IBM Software Support.

KS3R103E [module name] UNABLE TO LOCATE RMM MASTER CB
Explanation:  This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module name].
System action: Processing is halted.
User response: Contact IBM Software Support.

KS3R104E [module name] CONTROL BLOCK ID=[block_id] FAILED VALIDITY CHECK
Explanation:  This message indicates that an internal error has occurred. The indicated module determined that the indicated control block could not be located or appears to be not valid.
System action: Processing is halted.
User response: Contact IBM Software Support.

KS3R107E [module name] UNABLE TO LOCATE RMCC
Explanation:  This message indicates that an internal error has occurred. The indicated control block cannot be found by module [module name].
System action: Processing is halted.
User response: Contact IBM Software Support.

KS3R109W [module name] UNABLE TO RETRIEVE VTOC FOR [dataset_name] ON [volser]
Explanation:  The indicated module was unable to read the VTOC entry for the specified RMM control data set residing on the indicated volume.
System action: Processing continues without VTOC-related control data set information.
User response: Examine any other messages in the ITMS:Engine log, RKLVLOG, and/or the system SYSLOG to determine the underlying cause of error.

KS3R110E [module name] INVALID REQUEST TYPE: [request_id]
Explanation:  This message indicates that an internal error has occurred. The indicated request type was found to be invalid by module [module name].
System action: Processing for the current RMM command is halted.
User response: Contact IBM Software Support.

KS3R111E [module name] UNABLE TO ALLOCATE [size] BYTES FROM ENGINE
Explanation:  The indicated module was unable to obtain the indicated amount of storage in the Tivoli Enterprise Monitoring Server address space.
System action: Processing for the current RMM command is terminated.
User response: This error might occur because the aggregate storage requirements in the address space exceeded total storage available. The problem might not recur when the next RMM command is issued. Examine other messages in the ITMS:Engine log, RKLVLOG, to try and determine the cause of the error. If the error persists, contact IBM Software Support.

KS3R112E [module name] UNABLE TO ALLOCATE [size] BYTES FROM DATASPACE
Explanation:  The indicated module was unable to obtain the indicated amount of storage from the Tivoli Enterprise Monitoring Server-owned data space used for RMM-related data.
System action: Processing for the current RMM command is terminated.
User response: Contact IBM Software Support.

KS3R113E [module name] INVALID RMM COMMAND INTERFACE REQUEST; CODE=[request_code]
Explanation:  This message indicates that an internal error has occurred. The indicated request code was found to be invalid by module [module name].
KS3R120E [module name] ERROR RETURNED FROM RMM API; RC=[return_code], REASON=[reason_code]

Explanation: The indicated module received an error return & reason code on return from the RMM API EDGXCI.

System action: Processing for the current RMM command is halted.

User response: Contact IBM Software Support.

KS3R203E [module name] [dataspace_action] FAILED WITH RC/RE [return_code] / [reason_code]

Explanation: This message indicates that an internal error has occurred. An attempt to create a data space for use in RMM Summary collection failed with the indicated return and reason codes.

System action: The RMM summary collection process is halted.

User response: Contact IBM Software Support.

KS3R204I RMM SUMMARY DATASPACE CREATED: ORIGIN=[dataspace_origin], NAME=[dataspace_name], LENGTH=[dataspace_length], STOKEN=[dataspace_stoken], ALET=[dataspace_alet]

Explanation: A data space was created with the indicated attributes for a RMM Summary collection cycle.

System action: RMM Summary collection continues using the allocated data space.

User response: None.

KS3R205W [module name] UNABLE TO DELETE DATASPACE WITH STOKEN [dataspace_id]; PROCESSING CONTINUES

Explanation: An attempt to delete a data space from a previous RMM Summary collection cycle failed.

System action: The new RMM summary collection process continues.

User response: Examine any other messages in the ITMS:Engine log, RKLVLOG, and/or the system SYSLOG to determine the underlying cause of error.

KS3R275W TIME MACRO FAILED; DEADLINE CANNOT BE DETERMINED

Explanation: This message indicates that an internal error has occurred. An attempt to calculate the specified End time failed.

System action: The summary collection cycle continues, however the specified deadline time cannot be honored.

User response: Contact IBM Software Support. If the
collection cycle continues past the time specified by End Time, you can click the Force Stop button in the RMM Collection Control dialog box of the user interface to manually stop processing. Alternatively you can issue the following operator command to immediately halt RMM summary collection:

F taskname,S3RM STOP

KS3R280W  RMM SUMMARY COLLECTION DEADLINE REACHED; IMMEDIATE HALT INITIATED

Explanation: The specified End time has been reached and the RMM Summary collection cycle is not complete.

System action: The collection cycle is halted. All attributes collected up to this point is available through the Tivoli Enterprise Portal.

User response: None. If collection was halted either too early or too late, adjust the End Time specified in the RMM Collection Control dialog box of the Tivoli Enterprise Portal.

KS3R299E  RMM SUMMARY COLLECTION HAS BEEN TERMINATED DUE TO ERRORS

Explanation: One or more errors has occurred and the RMM Summary collection process has been halted.

System action: The RMM summary collection process is halted.

User response: Examine the RKLVLOG for any other messages indicating the original cause of the error.

KS3R300W  DFSMSRMM IS NOT ACTIVE; REQUEST CANNOT BE ISSUED

Explanation: An attempt to obtain realtime RMM data failed because the DFSMSRMM subsystem is not active on the system.

System action: Processing for the current RMM command is halted.

User response: Ensure that DFSMSrmm is installed and active on the system on which the Tivoli Enterprise Monitoring Server is running.

KS3R310E  ERROR [error_id] ENCOUNTERED ATTEMPTING TO RETRIEVE [rmn_object_type]

Explanation: The indicated error code was returned by the RMM command interface while attempting to retrieve the indicated RMM data.

System action: Processing for the current RMM command is halted.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3R325E  UNABLE TO LOCATE/VALIDATE [control_block_id] CONTROL BLOCK

Explanation: This message indicates that an internal error has occurred. The indicated control block could not be located.

System action: The requested RMM data is not returned for display at the Tivoli Enterprise Portal.

User response: Examine other messages in the ITMS:Engine log, RKLVLOG, to determine the cause of the error. Contact IBM Software Support.

KS3R326E  INPUT PARAMETER LIST MISSING [parmlist_component]

Explanation: This message indicates that an internal error has occurred. The RMM table interface module was invoked with a parameter list that is not valid.

System action: The requested RMM data is not returned for display at the Tivoli Enterprise Portal.

User response: Contact IBM Software Support.

KS3R327E  UNABLE TO ALLOCATE BOOKMARK AREA STORAGE

Explanation: This message indicates that an internal error has occurred. The RMM table interface module was unable to allocate storage for its Bookmark area.

System action: The requested RMM data is not returned for display at the Tivoli Enterprise Portal.

User response: This error might occur because the aggregate storage requirements in the address space exceeded total storage available. The problem might not recur when the next RMM command is issued. Examine other messages in the ITMS:Engine log, RKLVLOG, to try and determine the cause of the error. If the error persists, contact IBM Software Support.

KS3R328E  INVALID SUMMARY TABLE REQUESTED: [table_id]

Explanation: This message indicates that an internal error has occurred. The RMM table interface module was invoked with a request for a table that is not valid.

System action: The requested RMM data is not returned for display at the Tivoli Enterprise Portal.

User response: Contact IBM Software Support.

KS3R329E  BUFFER TOO SMALL FOR [table_id] TABLE ENTRY;
REQUIRED=[size_required], PROVIDED=[size_provided]

Explanation: This message indicates that an internal error has occurred. The RMM table interface module
was invoked with too small a return area for the requested table.

**System action:** The requested RMM data is not returned for display at the Tivoli Enterprise Portal.

**User response:** Contact IBM Software Support.

**KS3R393E**

```
[module name] [table_name] table create
rc=[retcode]
```

**Explanation:** This message indicates that an internal error has occurred. The specified group could not be added because of an error creating the persistent table.

**System action:** The new group is not added.

**User response:** Contact IBM Software Support.

**KS3R394E**

```
[module name] [module name] table open
rc=[module name]
```

**Explanation:** This message indicates that an internal error has occurred. The specified group could not be added because of an error opening the persistent table.

**System action:** The new group is not added.

**User response:** Contact IBM Software Support.

**KS3R395E**

```
[module name] [table_name] Error:
Vdefcol for col# [column_number]
rc=[retcode]
```

**Explanation:** This message indicates that an internal error has occurred. The specified group could not be added because of an error defining a column in the persistent table.

**System action:** The new group is not added.

**User response:** Contact IBM Software Support.

**KS3S001I**

```
Scheduler MCB allocated, $DSCWRK
@: [address]
```

**Explanation:** The Scheduler master control block $DSCWRK was allocated at [address].

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

**KS3S002I**

```
V#S3VCTR@: [address]
```

**Explanation:** The address of the V#S3VCTR control block is [address].

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

**KS3S003I**

```
Stop request [req_parm], On-line Scheduling disabled
```

**Explanation:** Request [req_parm] was sent to terminate online scheduling.

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

**KS3S004E**

```
Unable to find S3 vector, On-line Scheduling disabled
```

**Explanation:** This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is disabled.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3S005E**

```
Invalid request code [req_code], On-line Scheduling terminated
```

**Explanation:** Received a request code that is not valid: [req_code]. This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3S006E**

```
Service task attach failed rc= [return_code], On-line Scheduling terminated
```

**Explanation:** The attach failed with a return code of [return_code]. This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3S007E**

```
$DSCWRK GMEM failed, rc= [return_code], On-line Scheduling terminated
```

**Explanation:** Storage getmain for $DSCWRK failed with return [return_code]. The attach failed with a return code of [return_code]. This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KS3S008E • KS3S032E

KS3S008E  [module_name] OM2SM vector table not found, On-line Scheduling disabled

Explanation:  This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is disabled.

User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S009E  [module_name] On-line Scheduling terminated

Explanation:  Termination of online scheduling event controller. This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is disabled.

User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S010I  Scheduler table name [table_name]

Explanation:  The On-line Scheduler is using table [table_name].

User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S011I  Scheduler ASR allocated, D#ASRTB@: [asr_table_address]

Explanation:  The On-line Scheduler has allocated the Active Service Registry (ASR) at address [asr_table_address].

User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S012I  Scheduler SCH allocated, D#SCHTB@: [sch_table_address]

Explanation:  The On-line Scheduler has allocated the Scheduler Table (SCH) at address [sch_table_address].

User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S013I  Waiting for Scheduler initialization to complete

Explanation:  The main task is waiting for the scheduler task to complete its initialization process.

User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S014I  Completed Scheduler initialization

Explanation:  The scheduler has completed its initialization process.

User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S015I  No schedule events loaded, Wait for schedule events

Explanation:  This message indicates that no events have been saved previously.

User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S016I  Scheduler task started

Explanation:  The scheduler task has started, and is able to process scheduling request.

User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S017I  Waiting for termination request

Explanation:  This is an information message. A scheduling task is waiting for termination request.

User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S020E  [module_name] Abnormal Termination Recovered

Explanation:  [module_name] has experienced an abnormal termination that was recovered.

User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S031E  [module_name] ESTAEX macro request rc = [return_code]

Explanation:  The ESTEAX macro returned with a return code of [return_code].

User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S032E  [module_name] Requested schedule time is earlier than the current time

Explanation:  The schedule requested a time that is earlier than the current time on the Tivoli Enterprise Monitoring Server.
User response: Request a time later than the current time of the Tivoli Enterprise Monitoring Server.

KS3S033E  [module_name] Input Parameter error, reason= [reason_code] ; Forced termination

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is disabled.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S034E  [module_name] Storage obtain error rc= [return_code] ; Forced termination

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S035E  [module_name] Unable to obtain GSA address; Terminating

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S036E  [module_name] Process Controls error, reason= [reason_code] ; Forced termination

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S037E  [module_name] On-line Scheduler Table error, reason= [reason_code] table= [table_name]

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S038E  [module_name] Build error; missing [missing_module_name] module

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S039E  [module_name] Storage obtain error for callback parameter list. Invocation ignored.

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the requested command is ignored.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S042E  ERROR DURING [module_name] SDUMPX PROCESSING, RC= [return_code] , REASON= [reason_code]

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S100I  Waiting for Schedule Event request

Explanation: The scheduler is waiting for new scheduling requests.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S101E  On-line Scheduler unable to define Scheduler Event variable; rc= return_code variable= variable_name

Explanation: This message indicates that an internal error has occurred. Tivoli OMEGAMON XE for Storage continues, but the scheduling function is terminated.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3S102W  Requested schedule event time has past

Explanation: The time of the event to be scheduled has pasted.

User response: None. This is a warning message.
This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S105I There are event_count saved Scheduled Events

Explanation: The initialization of the Scheduler found event_count events that were stored.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S110I Loaded schedule: Time( schedule_time ) Days( schedule_days ) Callback( callback_name ) Name( event_name ) Info( event_user_info )

Explanation: The event has been loaded into the Scheduler.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S111I Requesting schedule: Time( schedule_time ) Days( schedule_days ) Callback( callback_name ) Name( event_name ) Info( event_user_info )

Explanation: There has been a request for this event to the Scheduler.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S112I Deleting schedule: Time( schedule_time ) Days( schedule_days ) Callback( callback_name ) Name( event_name ) Info( event_user_info )

Explanation: There has been a request to delete this event from the Scheduler.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S115I Active schedule: Time( schedule_time ) Days( schedule_days ) Callback( callback_name ) Name( event_name ) Info( event_user_info )

Explanation: This event is ready for processing.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S120I Missed schedule: Time( schedule_time ) Days( schedule_days ) Callback( callback_name ) Name( event_name ) Info( event_user_info )

Explanation: During initialization this event's time has passed. The expiration time of the event occurred while the Tivoli OMEGAMON XE for Storage product was not active.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S130I Next scheduled interval: schedule_interval (HH:MM:SS.hh)

Explanation: This message indicates when the scheduler processes events. This indication is based on the earliest event to process.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S131I Waiting for Schedule Timer to expire

Explanation: The Scheduler is waiting for the next event's time to expire.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S141I Unable to locate Callback( callback_name ) Name( event_name ) reason= reason_code

Explanation: The callback name that was supplied with the event was not found in the Active Service Registry.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S142I Invoking Callback( callback_name ) Name( event_name ) with @ event_cb_address

Explanation: The event time has expired and the supplied callback routine is invoked.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3S143I Invoked Callback( callback_name ) Name( event_name ) with @ event_cb_address

Explanation: The supplied callback for this event was invoked.
**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

**KS3S144I** Callback address invalid Callback(callback_name) Name(event_name) with @ event_cb_address

**Explanation:** The callback address supplied is not valid.

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

**KS3SL011I** Processing count of total

**Explanation:** This message shows the progress of the Launch Application that is processing the launch points.

**KS3T210E** SHOWCB FIELDS=(ACBLEN,RPLLEN), ERROR: R15([R15]) R0([R0])

**Explanation:** An attempt to determine the length of a VSAM access control block and a request parameter list failed. The SHOWCB is issued to recover from a previously detected VSAM OPEN failure.

**System action:** Open processing fails, and service probes initialization completes unsuccessfully.

**User response:** Ensure that the VSAM KSDS has been properly created for the OMEGAMON II for SMS services checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log, RKLVLOG.

**KS3T220E** GENCB BLK=ACB ERROR: R15([R15]) R0([R0])

**Explanation:** An attempt to create and initialize a VSAM access control block has failed. The GENCB is issued to recover from a previously detected VSAM OPEN failure.

**System action:** Open processing fails, and service probes initialization completes unsuccessfully.

**User response:** Ensure that the VSAM KSDS has been properly created for the OMEGAMON II for SMS services checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log, RKLVLOG.

**KS3T230E** GENCB BLK=RPL ERROR: R15([R15]) R0([R0])

**Explanation:** An attempt to create and initialize a VSAM request parameter list has failed. The GENCB is issued to recover from a previously detected VSAM OPEN failure.

**System action:** Open processing fails, and service probes initialization completes unsuccessfully.

**User response:** Ensure that the VSAM KSDS has been properly created for the OMEGAMON II for SMS services checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log, RKLVLOG.

**KS3T240E** UNABLE TO OPEN DDNAME(ddname) R15([R15]) ACBERFLG([acberfig])

**Explanation:** An attempt to reopen a VSAM data set for load processing has failed. The OPEN is issued to recover from a previously detected VSAM OPEN failure.

**System action:** Open processing fails, and service probes initialization completes unsuccessfully.

**User response:** Ensure that the VSAM KSDS has been properly created for the OMEGAMON II for SMS services checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log, RKLVLOG.

**KS3T250E** UNABLE TO INITIALIZE DDNAME(ddname) R15([R2]) RPLERRCD([rplerrcd])

**Explanation:** An attempt to load a new record into a VSAM data set for load processing has failed. A PUT is issued to initialize the contents of a VSAM data set that previously failed to OPEN.

**System action:** Open processing fails, and service probes initialization completes unsuccessfully.

**User response:** Ensure that the VSAM KSDS has been properly created for the OMEGAMON II for SMS services checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log, RKLVLOG.

**KS3T260E** UNABLE TO CLOSE DDNAME(ddname) R15([R2]) ACBERFLG([acberfig])

**Explanation:** An attempt to close a VSAM data set for load processing has failed. The CLOSE is issued to initialize the contents of a VSAM data set that previously failed to OPEN.

**System action:** Open processing fails, and service probes initialization completes unsuccessfully.

**User response:** Ensure that the VSAM KSDS has been properly created for the OMEGAMON II for SMS services checkpoint data set. The destination is the Tivoli Enterprise Monitoring Server Engine log, RKLVLOG.
KS3T304E  DFDSS MASTER A.S. DETECTED ERROR DURING SLAVE A.S. EXECUTION
Explanation: The DFDSS slave address space returned a non-zero condition code to the master address space.
System action: The DFDSS master task terminates.
User response: Check the DFDSS slave address space for messages or a dump. The destination is the MVS system console.

KS3T306E  SLAVE ADDRESS SPACE POSSIBLE JCL ERROR
Explanation: The DFDSS slave address space ended without returning a condition code.
System action: The DFDSS master task terminates.
User response: A JCL error might have occurred. Check for any messages or for a dump in the DFDSS slave address space. The destination is the MVS system console.

KS3T307E  TIMED OUT WAITING FOR SLAVE A.S. INITIALIZATION
Explanation: The SLAVESTCTIMEOUT value was exceeded before DFDSS slave address space initialization completed.
System action: The DFDSS master task terminates.
User response: Check the DFDSS slave address space for messages or a dump. You can also check the value of SLAVESTCTIMEOUT in member KDFACTIN in library rhilev.RKANPAR, and, if appropriate, change the time-out value (specified in seconds). The destination is the MVS system console.

KS3T308E  ERROR OCCURRED IN SLAVE A.S., CHECK FOR POSSIBLE DUMP
Explanation: The DFDSS slave address space returned a non-zero condition code to the master address space.
System action: The DFDSS master task terminates.
User response: Check the DFDSS slave address space for messages or a dump. The destination is the MVS system console.

KS3T309E  ERROR DURING [enqueue/dequeue], CODE= [ cccc], TERMINATING
Explanation: An error occurred during an enqueue or dequeue. The condition code from the error is included.
System action: The DFDSS master task terminates.
User response: Call IBM Software Support.

KS3T312E  ERROR INITIATING DFDSS STC, RC= [rcrc], REASON= [reason]
Explanation: An error occurred starting the DFDSS slave address space. The ASCRE macro provides the rcrc and reason values.
System action: The DFDSS master task terminates.
User response: Call IBM Software Support. The destination is the MVS system console.

KS3T313E  ERROR DURING SLAVE A.S. INITIALIZATION, RETURN CODE= rcrc
Explanation: During initialization, the DFDSS slave address space returned a non-zero condition code to the master address space.
System action: The DFDSS master task terminates.
User response: Check the DFDSS slave address space for messages or a dump. The destination is the MVS system console.

KS3T314E  ERROR ENCOUNTERED IN IKJTOE, RETURN CODE= [rcrc ], REASON CODE= [reason]
Explanation: A non-zero code was returned from the TSO/E environmental initialization.
System action: The DFDSS slave and master tasks terminate.
User response: Call IBM Software Support. The destination is the MVS system console.

KS3T315E  LOAD FAILED FOR MODULE IKJTOE, RETURN CODE= [ rcrc ], REASON CODE= [reason]
Explanation: A non-zero code was returned from LOAD while attempting to load the module.
System action: The DFDSS slave and master tasks terminate.
User response: Call IBM Software Support. The destination is the MVS system console.

KS3T316E  ERROR DURING DYNAMIC ALLOCATION, ERROR= [eeee], INFO= [iiii]
Explanation: A non-zero code was returned while attempting to dynamically allocate a resource.
System action: The DFDSS slave and master tasks terminate.
User response: Call IBM Software Support. The destination is the MVS system console.
**KS3T317E** ERROR DURING VSAM OPERATION ON ACTION RESPONSE CHECKPOINT DATA, ERROR= [eeee]

**Explanation:** The DFDSS slave address space attempted to open, read, update, or close the Response Checkpoint Dataset. VSAM returned a non-zero condition code. Additional action messages indicate the exact operation. One of the following messages follows this message: KDFAP3035E, KDFAP3036E, KDFAP3037E, or KDFAP3038E.

**System action:** The DFDSS slave and master tasks terminate.

**User response:** Check the DFDSS slave address space for additional messages. The destination is the MVS system console.

**KS3T330E** ERROR OBTAINING SLAVE A.S. ENQ, RETURN CODE= [rcrc], TERMINATING

**Explanation:** A non-zero code was returned while attempting to obtain an ENQUEUE.

**System action:** The DFDSS slave and master tasks terminate.

**User response:** Call IBM Software Support. The destination is the MVS system console.

**KS3T331E** ERROR ALLOCATING ACTION RESPONSE DATASET, TERMINATING

**Explanation:** An error was encountered dynamically allocating the action response data set. Message KDFAP3016E should precede this message and provide the exact error and resolution.

**System action:** The DFDSS slave and master tasks terminate.

**User response:** Call IBM Software Support. The destination is the MVS system console.

**KS3T332E** ERROR OPENING ACTION RESPONSE DATASET, TERMINATING

**Explanation:** An error has occurred during the opening of the checkpoint data set of the action response.

**System action:** An error was encountered opening the action response checkpoint data set. Message KDFAP3017E should precede this message and provide the exact error and information codes for resolution. The DFDSS slave and master tasks terminate.

**User response:** Call IBM Software Support. The destination is the MVS system console.

**KS3T333E** ERROR READING ACTION RESPONSE CHECKPOINT DATASET, TERMINATING

**Explanation:** An error was encountered reading the action response checkpoint data set. Message KDFAP3017E should precede this message and provide the exact error and information codes for resolution.

**System action:** The DFDSS slave and master tasks terminate.

**User response:** Call IBM Software Support. The destination is the MVS system console.
KS3T337E  •  KS3T426E

KS3T337E  ERROR UPDATING ACTION RESPONSE CHECKPOINT DATASET, TERMINATING

Explanation:  An error was encountered updating the action response checkpoint data set. Message KDFAP3017E should precede this message and provide the exact error and information codes for resolution.

System action:  The DFDSS slave and master tasks terminate.

User response:  Call IBM Software Support. The destination is the MVS system console.

KS3T338E  ERROR CLOSING ACTION RESPONSE CHECKPOINT DATASET, TERMINATING

Explanation:  An error was encountered closing the action response checkpoint data set. Message KDFAP3017E should precede this message and provide the exact error and information codes for resolution.

System action:  The DFDSS slave and master tasks terminate.

User response:  Call IBM Software Support. The destination is the MVS system console.

KS3T340E  ERROR RETRIEVING PARMS, RC= [rcrc], REASON= [reason]

Explanation:  A non-zero return code was received from ASEXPT while attempting to move from the DFDSS master address space to the slave address space.

System action:  The DFDSS slave and master tasks terminate.

User response:  Call IBM Software Support. The destination is the MVS system console.

KS3T341E  DFDSS SLAVE ADDRESS SPACE STARTED WITH INVALID JOB PARMS= ([invalid_job_parms])

Explanation:  Parameters that are not valid were specified on the EXEC statement in the slave address space started task JCL.

System action:  The DFDSS slave and master tasks terminate.

User response:  Correct the started task JCL and resubmit the request. The destination is the MVS system console.

KS3T410W  FREE FAILED FOR DDNAME= [ddname], RC= [rc] ERROR= [error] INFO= [info]

Explanation:  A service response data set containing response text could not be freed. The data set is most likely open by another thread of execution and cannot be freed until the other thread of execution has closed the data set. The destination is the Tivoli Enterprise Monitoring Server Engine log, RKLVLOG.

System action:  This message is issued to the RKLVLOG. No further actions are taken to delete the data set. If the error occurred in response to an SQL DELETE request to remove a completed service request, a return code of RCABVU (26) is returned to the application issuing the DELETE.

User response:  None.

KS3T422E  NULL RESULT FROM REXX EXEC ' [p0]'.

Explanation:  A null result was returned by the specified REXX exec. The exec should provide a numeric result.

System action:  None.

User response:  This error could have been caused by an error in the stated REXX exec. Unless you have changed the exec, contact IBM Software Support providing this message with the REXX exec name. If this problem has not been reported previously, you must determine why the REXX exec did not return a result. You might have to place additional problem determination aids in the REXX exec. Review the appropriate destination:

OMEGAMON II for SMS
  The Tivoli Enterprise Monitoring Server address space log, RKLVLOG.

All other products
  The data collection (Tivoli Enterprise Monitoring Server) address space SYSTSPRT output file.

KS3T426E  NON-NUMERIC RESULT FROM REXX EXEC ' [p0]'.

Explanation:  A non-numeric result was returned by the specified REXX exec. The exec should provide a numeric result.

System action:  None.

User response:  The routine calling REXX failed to indicate that a only a numeric result was valid. Contact IBM Software Support providing this message with the REXX exec name. If this problem has not been reported previously, you must determine why the REXX did not return a numeric result. The routine calling REXX, KS3IRACT, could have failed to indicate that the REXX exec was being called as a command, or a REXX error could have occurred. REXX should detect an error (and issue message IRX0026) if a non-numeric result is being returned by an exec called as a command. Review the appropriate destination:
OMEGAMON II for SMS
The Tivoli Enterprise Monitoring Server
address space log, RKLVLOG.

All other products
The data collection (Tivoli Enterprise
Monitoring Server) address space SYSTSPRT
output file.

KS3T427E  REXX ERROR EXECUTING EXEC ['p0'].
REXX RETURN CODE [p1].
Explanation:  An error occurred when invoking the
specified REXX exec.
System action:  The attempt to perform the associated
service request is aborted. See TSO/E REXX
Programming Services IRXEXEC return codes for a
description of the actions taken by REXX.
User response:  See the REXX messages issued prior
to this message for more information regarding the
error. Review the appropriate destination:

OMEGAMON II for SMS
The Tivoli Enterprise Monitoring Server
address space log, RKLVLOG.

All other products
The data collection (Tivoli Enterprise
Monitoring Server) address space SYSTSPRT
output file.

KS3T431E  INCOMPATIBLE LEVEL OF TSO/E.
VERSION 2.3.0 OR ABOVE REQUIRED.
VERSION=[p0] RELEASE=[p1].
Explanation:  The action services could not be
initialized because an unsupported version of TSO/E
was found. Action services requires TSO/E VERSION
2.3.0 or above to satisfy action requests.
System action:  The action request processing is
disabled for the remainder of the data collection (Tivoli
Enterprise Monitoring Server) address space execution.
User response:  Install the required version of TSO/E
before attempting to issue any action requests. The
destination is the Tivoli Enterprise Monitoring Server
Engine log, RKLVLOG.

KS3T441E  LOAD FAILED FOR MODULE=[p0]
ABEND=[p1] REASON CODE=[p2].
Explanation:  An attempt to load an executable load
module into virtual storage has failed. Action load
modules are dynamically loaded into virtual storage
when the first action request is received. Subsequent
action requests reuse the dynamically loaded modules.
If a load fails, the current action request fails as do
subsequent action requests.
System action:  The current request for action fails
and a nonzero return code is returned to the application
program.
User response:  Refer to the MVS system codes
documentation for further details on the load failure.
Ensure that the complete set of load modules are
referenced by the STEPLIB concatenation of the started
task JCL. Also ensure that the entire list of load module
libraries in the STEPLIB concatenation are
APF-authorized. The destination is the Tivoli Enterprise
Monitoring Server Engine log, RKLVLOG.

KS3T500E  [module name]: STORAGE OBTAIN
FAILED, RC = [return-code], FOR:
[storage-type]
Explanation:  This problem occurred during the
preparation or execution of a batch job. The indicated
module tried to get storage using the STORAGE
OBTAIN macro, but received the return-code from the
system.
System action:  Actions depend on the type of
storage, but probably the current action was aborted.
The Tivoli Enterprise Monitoring Server user might not
receive any notification that the batch job finished, if it
was actually started.
User response:  See "z/OS MVS Programming:
Assembler Services Reference, Volume 2" for an
explanation of the STORAGE macro return-code.
Contact IBM Software Support. Problem information is
stored in the ITMS:Engine log, RKLVLOG, or in the
batch job's JESMSGLG file.

KS3T501E  [module name]: OPEN FAILED FOR:
[dd-name], RC = [return-code]
Explanation:  This problem occurred during the
preparation or execution of a batch job. The indicated
module attempted to open a data set identified by
dd-name using the OPEN macro, which returned the
return-code.
System action:  Processing could not continue. The
batch job might not have been submitted. If it was
submitted, the batch job continues to run, but some or
all of the requested data might not be returned to the
Tivoli Enterprise Monitoring Server user.
User response:  See "z/OS DFSMSMacro Instructions
for Data Sets" for an explanation of the OPEN macro
return-code. Contact IBM Software Support. Problem
information is stored in the ITMS:Engine log, RKLVLOG,
or in the batch job's JESMSGLG file.

KS3T502E  [module name]: ESTAEX FAILED, RC =
[return_code]
Explanation:  This problem occurred during the
preparation or execution of a batch job. The indicated
module attempted to establish an ESTAE routine using
the system ESTAEX macro, which returned the return-code.

**System action:** The module continues processing, but without the protection of an ESTAE routine.

**User response:** See “z/OS MVS Programming: Assembler Services Reference, Volume 1” for an explanation of the ESTAEX macro return-code. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGGLG file.

---

**KS3T503E**

```plaintext
[module name]: STORAGE RELEASE FAILED, RC = [return_code], FOR: [storage-type]
```

**Explanation:** This problem occurred during the execution of a batch job. The indicated module tried to release storage using the STORAGE RELEASE macro, but received the return-code from the system.

**System action:** The batch job continues execution.

**User response:** See “z/OS MVS Programming: Assembler Services Reference, Volume 2” for an explanation of the STORAGE macro return-code. Contact IBM Software Support. Problem information is stored in the batch job's JESMSGGLG file.

---

**KS3T504E**

```plaintext
[module name]: CLOSE FAILED FOR: [dd-name], RC = [return_code], FOR: [storage-type]
```

**Explanation:** This problem occurred during the preparation or execution of a batch job. The indicated module attempted to open a data set identified by dd-name using the CLOSE macro, which returned the return-code.

**System action:** Processing could not continue.

**User response:** See “z/OS DFSMS Macro Instructions for Data Sets” for an explanation of the CLOSE macro return-code. Contact IBM Software Support. Problem information is stored in the batch job's JESMSGGLG file.

---

**KS3T505E**

```plaintext
[module name]: DYNALLOC FAILED FOR: [dataset-name]
```

**Explanation:** This problem occurred during the preparation or execution of a batch job. The indicated module attempted to dynamically allocate a data set using the DYNALLOC macro for dataset-name.

**System action:** Processing could not continue. Some or all of the requested data might not be returned to the Tivoli Enterprise Monitoring Server user.

**User response:** See “z/OS MVS Programming: Authorized Assembler Services Guide” for an explanation of the DYNALLOC macro return codes. This message is followed by KS3T506E. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGGLG file.

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**KS3T506E**

```plaintext
[module name]: R15=[return-code], ERR=[s99eerr], ERROR=[s99error], INFO=[s99info], ERSN=[s99ersn]
```

**Explanation:** This problem occurred during the preparation or execution of a batch job. The indicated module attempted to dynamically allocate a data set using the DYNALLOC macro. The four fields of the message are, respectively, S99EERR, S99ERROR, S99INFO, and S99ERSN.

**System action:** Processing could not continue.

**User response:** See “z/OS MVS Programming: Authorized Assembler Services Guide” for an explanation of the DYNALLOC macro return codes. This message follows KS3T505E. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGGLG file.

---

**KS3T508E**

```plaintext
[module name]: ENQ FAILED WITH RC = [return-code], FOR MINORNAME:
```

**Explanation:** This problem occurred during the preparation or execution of a batch job. The indicated module attempted to issue the ENQ macro, which failed with return-code. The queue name is always “KS3TKUDS”. The minor name is the name of the "results" data set used for this batch job, and is contained in message KS3T509E, which always follows this message.

**System action:** It is possible that notification of the completion of the batch job will not be returned to the Tivoli Enterprise Monitoring Server user.

**User response:** See “z/OS MVS Programming: Assembler Services Reference, Volume 1” for an explanation of the ENQ macro return codes. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGGLG file.

---

**KS3T509E**

```plaintext
[module name]: [resource-name]
```

**Explanation:** This problem occurred during the preparation or execution of a batch job. The indicated module attempted to issue the ENQ macro for the indicated minor name, which is the name of the "results" data set used for this batch job. This message follows message KS3T508E and KS3T524E.

**System action:** It is possible that notification of the completion of the batch job will not be returned to the Tivoli Enterprise Monitoring Server user.

**User response:** See “z/OS MVS Programming: Assembler Services Reference, Volume 1” for an explanation of the ENQ macro return codes. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGGLG file.
IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGLG file.

KS3T510E [module name]: ESTAEX DRIVEN.
ABEND CODE = [abend-code],
REASON CODE = [reason-code]

Explanation: This problem occurred during the preparation or execution of a batch job. The module's ESTAEX routine was driven for the indicated abend-code and reason-code. The abend-code is the full value of the SWDA field, SDWAABCC, and the abend code is in the 4th, 5th, and 6th "nibbles" of this field.

System action: Most abends are not recoverable, and result in module cleanup and exit. The function terminates. Most likely, no indication of the completion of the batch job is returned to the user of the Tivoli Enterprise Monitoring Server.

User response: See "z/OS MVS System Codes" for an explanation of the abend codes. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGLG file.

KS3T511E [module name]: RESMGR ADD FAILED, RC = [return-code]

Explanation: This problem occurred during the execution of a batch job. The indicated module attempted to issue the RESMGR ADD macro to establish a TCB-level resource manager to monitor completion of the job step tasks. The macro completed with return_code.

System action: The batch job continues to run, and some data might be returned about the batch job, but data is not returned from data sets identified by job step name.


KS3T512E [module name]: RESMGR DELETE FAILED, RC = [return-code]

Explanation: This problem occurred during the execution of a batch job. The indicated module attempted to issue the RESMGR DELETE macro to remove a TCB-level resource manager. The macro completed with return_code.

System action: The batch job continues to run. The resource manager might continue to exist and run within the Initiator's address space until it has an opportunity to remove itself.


KS3T517E [module name]: RACROUTE CREATE FAILED FOR: [user-id], REG15 = [return-code]

Explanation: This problem occurred during the preparation of a batch job. The indicated module tried to run the RACROUTE macro for the user ID, but received
the register 15 return-code from the system. Other return codes are in message KS3T518E, which follows this message.

**System action:** The batch job cannot be submitted.

**User response:** Verify that the user ID is correct, and that it is defined to the security system. See “z/OS Security Server RACROUTE Macro Reference” for an explanation of the RACROUTE macro return codes. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T518E** [module name]: RETURN = [return-code], REASON = [reason-code]

**Explanation:** This problem occurred during the preparation of a batch job. The indicated module tried to run the RACROUTE macro for the user ID, but received the return-code from the system. return-code is the value of SAFPRRET, and reason-code is the value of SAFPRREA. This message follows message KS3T518E.

**System action:** The batch job cannot be submitted.

**User response:** Verify that the user ID is correct, and that it is defined to the security system. See “z/OS Security Server RACROUTE Macro Reference” for an explanation of the RACROUTE macro return codes. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T519E** [module name]: UNEXPECTED VALUE IN FIELD: [field-name]

**Explanation:** This problem occurred during the preparation of a batch job. An internal error occurred.

**System action:** The batch job cannot be submitted.

**User response:** Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T521E** [module name]: UNEXPECTED VALUE FOR REQUEST TYPE: [request-type]

**Explanation:** This problem occurred during the preparation of a batch job. An internal error occurred.

**System action:** The batch job cannot be submitted.

**User response:** Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T522E** [module name]: RACROUTE DELETE FAILED FOR: [user-id], REG15 = [return-code]

**Explanation:** This problem occurred during the preparation of a batch job. The indicated module tried to run the RACROUTE macro for the user ID, but received the register 15 return-code from the system. Other return codes are in message KS3T523E, which follows this message.

**System action:** The batch job cannot be submitted.

**User response:** Verify that the user ID is correct, and that it is defined to the security system. See “z/OS Security Server RACROUTE Macro Reference” for an explanation of the RACROUTE macro return codes. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T523E** [module name]: RETURN = [return-code], REASON = [reason-code]

**Explanation:** This problem occurred during the preparation of a batch job. The indicated module tried to run the RACROUTE macro for the user ID, but received the return-code from the system. return-code is the value of SAFPRRET, and reason-code is the value of SAFPRREA, from control block ICHSAFP. This message follows message KS3T522E.

**System action:** The batch job cannot be submitted.

**User response:** Verify that the user ID is correct, and that it is defined to the security system. See “z/OS Security Server RACROUTE Macro Reference” for an explanation of the RACROUTE macro return codes. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T524E** [module name]: DEQ FAILED WITH RC = [return-code]. FOR MINORNAME: [minor-name]

**Explanation:** This problem occurred during the preparation or execution of a batch job. The indicated module attempted to issue the DEQ macro, which failed with return-code. The queue name is always "KS3TKUDS". The minor name is the name of the "results" data set used for this batch job, and is contained in message KS3T509E, which always follows this message.

**System action:** It is possible that notification of the completion of the batch job will not be returned to the Tivoli Enterprise Monitoring Server user.

**User response:** See "z/OS MVS Programming: Assembler Services Reference, Volume 1" for an explanation of the DEQ macro return codes. Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGLG file.

---

**KS3T525E** [module name]: COULD NOT DETERMINE JOB ID

**Explanation:** This problem occurred during the execution of a batch job. It is an This message indicates that an internal error has occurred.
System action: It is possible that notification of the completion of the batch job will not be returned to the Tivoli Enterprise Monitoring Server user.

User response: Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGLG file.

KS3T526E [module name]: STORAGE OBTAIN FAILED FOR WORK AREA

Explanation: This problem occurred during the preparation or execution of a batch job. Work area storage could not be obtained below the line from subpool 1.

System action: The batch job continues to run. Depending on the nature of the error, all or some or none of the requested information might be returned to the Tivoli Enterprise Monitoring Server user. It is also possible that the Tivoli Enterprise Monitoring Server user will not be notified of the batch job completion.

User response: Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGLG file.

KS3T527E [module name]: STORAGE RELEASE FAILED FOR WORK AREA

Explanation: This problem occurred during the preparation or execution of a batch job. Work area storage could not be released below the line from subpool 1.

System action: The batch job continues to run. Depending on the nature of the error, all or some or none of the requested information might be returned to the Tivoli Enterprise Monitoring Server user. It is also possible that the Tivoli Enterprise Monitoring Server user will not be notified of the batch job completion.

User response: Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGLG file.

KS3T528E [module name]: COULD NOT DETERMINE ADDRESS OF BICB

Explanation: This problem occurred during the execution of a batch job. This message indicates that an internal error has occurred.

System action: The batch job continues to run. However, the Tivoli Enterprise Monitoring Server user receives no indication that the batch job has completed.

User response: Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGLG file.

KS3T529E [module name]: COULD NOT DETERMINE JES BASE NAME: [name]

Explanation: This problem occurred during the execution of a batch job. The module could not determine the first few qualifiers of the JES spool file name.

System action: The batch job continues to run. If the Tivoli Enterprise Monitoring Server user requested information from one or more JES spool files, it is not returned.

User response: Contact IBM Software Support. Problem information is stored in the ITMS:Engine log, RKLVLOG, or in the batch job's JESMSGLG file.

KS3T530E [module name]: REQUIRED KEYWORD MISSING: [keyword]

Explanation: This problem occurred during the execution of a batch job. A required keyword in the SYSIN file was missing. This message indicates that an internal error has occurred.

System action: The batch job continues to run. However, the Tivoli Enterprise Monitoring Server user is not notified of the batch job completion.

User response: Contact IBM Software Support. Problem information is stored in the batch job's JESMSGLG file.

KS3T531E [module name]: DATASET IN USE: [dataset-name]

Explanation: This problem occurred during the execution of a batch job. The module attempted to OPEN data set-name to read from it, but it was in use by another user.

System action: The batch job continues to run. Data from this data set is not returned to the Tivoli Enterprise Monitoring Server user.

User response: Determine who is using the data set, and release the data set. Run the batch job again.

KS3T532E [module name]: RESOURCE MANAGER ALREADY DELETED

Explanation: This problem occurred during the execution of a batch job. The module attempted to release a resource manager, but it had already been deleted.

System action: The batch job continues to run. This message is an indication that the resource manager had to remove itself from the system, which indicates that an error had occurred in the resource manager.

User response: Check the output at the Tivoli Enterprise Monitoring Server user. If all requested data is there, then ignore this message. If expected data is
missing, or if this message continues to repeat, then contact IBM Software Support. Problem information is stored in the batch job's JESMSGLG file.

KS3T533E  [module name]: RESULTS DATASET IS FULL

Explanation:  This problem occurred during the execution of a batch job. The module attempted to PUT another record to the result data set, but it had reached capacity. No more data can be stored.

System action:  The batch job continues to run. The Tivoli Enterprise Monitoring Server user may notice that some of the expected data is missing.

User response:  Increase the size of the results data set, or request less data be returned from the batch job.

KS3T534I  [module name]: RESOURCE MANAGER QUEUED FOR DELETION

Explanation:  This problem occurred during the execution of a batch job. The module issued the RESMGR macro to delete the resource manager, but the system could not do so immediately. The request for deletion is queued, waiting for the resource manager to become idle.

System action:  The batch job continues to run. There should be no effect on the data returned to the Tivoli Enterprise Monitoring Server user.

User response:  Normally, the resource manager completes its execution cycle at the end of each job step. If it is still executing when this module tries to delete it, it is an indication that the resource manager might be in a loop or a wait state. If this problem reoccurs, then contact IBM Software Support. Problem information is stored in the batch job's JESMSGLG file.

KS3T535E  [module name]: IEFSSREQ RET CODE = [r15 retcode], SSOBRETN = [retcode]

Explanation:  This problem occurred during the execution of a batch job. The module issued the SubSystem Interface 80 request (Extended Status Function Call), using the IEFSSREQ macro, and it failed with register 15 retcode. This message is followed by KS3T536E, which provides more information.

System action:  The batch job continues to run. However, if the Tivoli Enterprise Monitoring Server user requested output from one or more JES spool files, that data is not returned.

User response:  See "z/OS MVS Using the Subsystem Interface" for an explanation of the return codes. Correct the error and try again.

KS3T536E  [module name]: STATREAS = [reasoncode], STATREA2 = [reasoncode2]

Explanation:  This problem occurred during the execution of a batch job. The module issued the SubSystem Interface 80 request (Extended Status Function Call), using the IEFSSREQ macro, and it failed with the indicated reason codes. This message follows message KS3T535E.

System action:  The batch job continues to run. However, if the Tivoli Enterprise Monitoring Server user requested output from one or more JES spool files, that data is not returned.

User response:  See "z/OS MVS Using the Subsystem Interface" for an explanation of the return codes. Contact IBM Software Support. Problem information is stored in the batch job's JESMSGLG file.

KS3T537E  [module name]: SYNAD DRIVEN. REASON: [reason]

Explanation:  This problem occurred during the preparation of a batch job. The module performed an I/O operation and it had an error, causing the SYNAD exit routine to be called. The reason text is copied from the SYNAD's message area.

System action:  The batch job cannot be submitted.

User response:  See "z/OS DFSMS Macro Instructions for Data Sets" for a description of the reason text under the explanation of the SYNADAF macro. Correct the error and try again.

KS3T538E  [module]: INPUT PARAMETER LIST MISSING [parmlist_component]

Explanation:  This message indicates that an internal error has occurred. The indicated module [module] was invoked with an invalid parameter list [parmlist_component].

System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response:  Contact IBM Software Support.

KS3T539E  [module]: INVALID REQUEST ID: [request_id]

Explanation:  This message indicates that an internal error has occurred. The indicated request type [request_id] was found to be invalid by the module [module].

System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response:  Contact IBM Software Support.
**KS3T540E • KS3T603E**

KS3T540E  [module]: [parm] NOT SUPPLIED

**Explanation:** This message indicates that an internal error has occurred. The required [parm] is not supplied to the program.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support.

KS3T541E  [module]: NO VOLUME/DATASET FOUND, REQUEST TYPE = [request], RSNCODE = [rc]

**Explanation:** A Storage Toolkit volume or dataset command is invoked for a group (such as a User DASD group, for example), however no qualifying volumes or datasets can be found for this group. The indicated reason code [rc] further explains the cause of the failure. Possible request types [request] include:
- SMSG: volume action for a SMS group
- USRG: volume action for a User DASD group
- DSGN: dataset action for a Dataset group
- DADG: dataset action for a Dataset Attribute group

**System action:** The requested Storage Toolkit command is not processed for the group.

**User response:** In the workspace, verify the group has volume or dataset members. If it does, retry the action at a later time. If the problem persists, contact IBM Software Support.

KS3T542E  [module]: FAILED TO HANDLE REQUEST, REQUEST TYPE = [request], RETCODE = [return code], RSNCODE = [reason code]

**Explanation:** This message indicates that an internal error has occurred while performing a Storage Toolkit volume or dataset command for a group (User DASD group, etc). The indicated return code [return code] and reason code [reason code] further explain the cause to the failure. Possible request types [request] include:
- SMSG: volume action for a SMS group
- USRG: volume action for a User DASD group
- DSGN: dataset action for a Dataset group
- DADG: dataset action for a Dataset Attribute group

**System action:** The requested Storage Toolkit command is not processed for the group.

**User response:** Contact IBM Software Support.

KS3T543W  [module]: GROUP NOT FOUND, REQUEST TYPE = [request], RSNCODE = [rc]

**Explanation:** A Storage Toolkit volume or dataset command was invoked for a group (such as a User DASD group, for example). However, the command cannot be processed because the group was not found.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

KS3T600I  STORAGE TOOLKIT INITIALIZATION HAS COMMENCED

**Explanation:** The Storage Toolkit is starting.

**System action:** None.

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T601I  STORAGE TOOLKIT ANCHOR BLOCK HAS BEEN CREATED

**Explanation:** The Storage Toolkit is starting.

**System action:** None.

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T602E  Internal error: REQUEST number not found

**Explanation:** This message indicates that an internal error has occurred.

**System action:** The action request is not submitted for execution because it cannot be found.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T603E  KLE_FrrSet ([return_code]) in [program_name]

**Explanation:** This message indicates that an internal error has occurred. An abend occurred during Storage Toolkit processing.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
KS3T604E • KS3T613E

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T604E Internal error: REQUEST number must follow comma**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T605E Internal error: REQUEST number not valid, source = [program_id]**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T606E The Storage Toolkit request could not be started. Check the System log for error messages issued by the started task that is named: '[stc_name]'**

**Explanation:** The action request cannot be started.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Check the System log for related error messages and take the corrective action indicated by those messages. This information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T608E REQUEST option CANCEL not supported**

**Explanation:** Action requests cannot be cancelled after they are submitted.

**System action:** The action request is not cancelled.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T609E Internal error analyzing REQUEST option**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T610E missing BIGSTRING column in TK_MODIFY query**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T611E Internal error: unknown REQUEST option**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T612E Internal error: REQUEST option must follow REQUEST id**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T613E Internal error: number must follow REQUEST command**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
**KS3T614E**  
**Internal error: RESULT number must be present**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T615E**  
**Internal error: period missing between REQUEST and RESULT**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T616E**  
**Internal error: REQUEST number must be present**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T617E**  
**Internal error: REQUEST or RESULT number not valid**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T618E**  
**Internal error: REQUEST or RESULT number not valid**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T619E**  
**STORAGE TOOLKIT ANCHOR BLOCK CREATE ERROR STATUS CODE [status_code] REASON CODE [reason_code]**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T620E**  
**Internal error analyzing RESULT option**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T621E**  
**STORAGE TOOLKIT RUNTIME PARAMETER MEMBER KS3ACTIN NOT FOUND**

**Explanation:** The RKANPAR data set must contain a member named KS3ACTIN, which contains options that control the Storage Toolkit.

**System action:** The Storage Toolkit is not started.

**User response:** Rerun the process provided by the Configuration Tool to create the KS3ACTIN member. This information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T622E**  
**STORAGE TOOLKIT RUNTIME PARAMETER MEMBER KS3ACTIN OPEN ERROR RETURN CODE [return_code]**

**Explanation:** This message indicates that an internal error occurred.

**System action:** The Storage Toolkit is not started.

**User response:** Rerun the process provided by the Configuration Tool to create the KS3ACTIN member. This information is stored in the ITMS:Engine log, RKLVLOG.
error has occurred. The [return_code] has these possible values and meanings: 4=Invalid handle, 5=Unsuccessful - open failed, 8=Dynamic allocation failed, 9=DSNAME greater than 44 characters, 10=DDNAME greater than 8 characters, >256=An abend occurred. The value is (abendcode * 256). Divide the value by 256. If the result is less than 4096, this is a system abend. If the result is greater than 4096, subtract 4096 to determine the user abend code.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T623E • STORAGE TOOLKIT RUNTIME PARAMETER MEMBER KS3ACTIN READ ERROR RETURN CODE [return_code]**

**Explanation:** This message indicates that an internal error has occurred. The [return_code] has these possible values and meanings: 4=Invalid handle, >256=An abend occurred. The value is (abendcode * 256). Divide the value by 256. If the result is less than 4096, this is a system abend. If the result is greater than 4096, subtract 4096 to determine the user abend code.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T624E • KS3ACTIN RUNTIME PARAMETER [parm_name] NOT RECOGNIZED**

**Explanation:** An unsupported keyword was supplied within the KS3ACTIN parameter member in the RKANPAR data set. The valid keywords are: CHECKDSNAME RESDSMGMTCLAS RESDSNPREFIX RESDSSTORCLAS RESDSUNIT RESDSVOLUME SLAVESTCNAME SLAVEMAXSTC SLAVETIMEOUT

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Ensure that you have not incorrectly typed any of these keywords and that you have not added any text other than keywords or comments (line that begin with "). Also ensure that the keyword and value supplied are in this format: "KEYWORD = VALUE" (but without the quotation marks). This information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T625E • STORAGE TOOLKIT RUNTIME PARAMETER MEMBER KS3ACTIN CLOSE ERROR RETURN CODE [return_code]**

**Explanation:** This message indicates that an internal error has occurred. The [return_code] has these possible values and meanings: 4=Invalid handle, >256=An abend occurred. The value is (abendcode * 256). Divide the value by 256. If the result is less than 4096, this is a system abend. If the result is greater than 4096, subtract 4096 to determine the user abend code.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T626E • Internal error: unknown RESULT option**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T627E • Internal error: RESULT option must follow RESULT id**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

**KS3T628I • STORAGE TOOLKIT RUNTIME PARAMETER MEMBER KS3ACTIN WAS READ SUCCESSFULLY**

**Explanation:** The KS3ACTIN member was read and processed successfully.

**System action:** The Storage Toolkit continues its initialization processing.

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.
KS3T629E  STORAGE TOOLKIT RUNTIME
PARAMETER MEMBER KS3ACTIN WAS
NOT READ SUCCESSFULLY

Explanation: This message indicates that an internal
error has occurred.

System action: Tivoli OMEGAMON XE for Storage
continues, but the operation triggering the error does
not complete.

User response: Contact IBM Software Support. This
problem information is stored in the ITMS:Engine log,
RKLVLOG.

KS3T630I  PARAMETER '[keyword]' HAS BEEN
ASSIGNED THE VALUE '[value]'

Explanation: The parameter listed was understood
and processed.

System action: None.

User response: None. This is an informational
message. This information is stored in the ITMS:Engine
log, RKLVLOG.

KS3T631W  PARAMETER '[keyword]' WAS
SPECIFIED PREVIOUSLY

Explanation: A keyword was repeated within the
KS3ACTIN parameter member.

System action: The additional keyword and value are
ignored.

User response: Remove one of the instances of the
keyword parameter and its value. This information is
stored in the ITMS:Engine log, RKLVLOG.

KS3T632E  Internal error: unrecognized TOOLKIT
command

Explanation: This message indicates that an internal
error has occurred.

System action: Tivoli OMEGAMON XE for Storage
continues, but the operation triggering the error does
not complete.

User response: Contact IBM Software Support. This
problem information is stored in the ITMS:Engine log,
RKLVLOG.

KS3T633W  Execution thread is active, cannot
delete

Explanation: An action request that is running has
been selected for deletion by a user.

System action: The request is running is allowed to
continue and is not deleted.

User response: The request might be selected for
deletion by a user after it has run. This information is
stored in the ITMS:Engine log, RKLVLOG.

KS3T634E  STORAGE TOOLKIT RUNTIME
PARAMETER '[parm_name]' HAS NOT
BEEN SPECIFIED AND WILL NOT BE
DEFAULTED

Explanation: The specified parameter was not
specified.

System action: Tivoli OMEGAMON XE for Storage
continues, but the operation triggering the error does
not complete.

User response: Supply the specified keyword and its
value within the KS3ACTIN parameter member in
RKANPAR. This information is stored in the
ITMS:Engine log, RKLVLOG.
KS3T640E  STORAGE TOOLKIT ADMINISTRATION RECORD READ ERROR
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T642W  STORAGE TOOLKIT CHECKPOINT DATASET OPEN FAILURE
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T643E  STORAGE TOOLKIT ADMINISTRATION RECORD NOT RECOGNIZED, SOURCE = [program_id]
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T644I  STORAGE TOOLKIT IS BEING COLD STARTED
Explanation: No action requests have been found within the Storage Toolkit during startup, which is normal when the Storage Toolkit is first installed and configured.
System action: None.
User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T645I  STORAGE TOOLKIT ADMINISTRATION RECORD FOUND
Explanation: Normal startup is under way.
System action: The Storage Toolkit continues to initialize.

KS3T650I  [restore_count] SERVICE REQUESTS HAVE BEEN RESTORED
Explanation: The specified number of action requests have been found within the Storage Toolkit during startup.
System action: None.
User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T651I  STORAGE TOOLKIT IS BEING WARM STARTED
Explanation: Normal startup is under way.
System action: The Storage Toolkit continues to initialize.
User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T652I  Internal error: Storage Toolkit Tk_global is 0, source = [program_id]
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T653I  Timed-Out waiting for Checkpoint data set lock
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T654E  Internal error: Storage Toolkit Tk_modify_session not found
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T660E Character < found in string, which is not valid

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T665E End of quoted string not found

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T666E Quoted string found without XML attribute name or equal sign

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T667E Character < found within XML start or end tag

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T668E Invalid XML end tag

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T669E Invalid XML start tag

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T670E Character = found without earlier XML attribute name

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T671E End of XML start tag found while XML attribute incomplete

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

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KS3T672E Invalid characters within XML start tag

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This
KS3T673E • KS3T681E

problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T673E XML attribute value must be enclosed in single or double quotation marks
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T674E Invalid characters within XML end tag
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T675E End of parse but with incomplete parse state
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T676E ---End of parse 2---
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T677E Internal error: typeG NOT first_in_chain
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T678E Internal error: typeC record but typeD == 0
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KS3T682E Internal error: typeC NOT first_in_chain
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T683E Internal error: typeC last_in_chain
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T684E Internal error: typeD NOT first_in_chain
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T685E Unsupported request type
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T686E Internal error: ABEND occurred in Tk_lock constructor
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T687E Internal error: Incorrect access value in Tk_lock constructor
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T688E Unrecognized attribute found in XMIT header
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T689E Logic error while parsing XMIT header
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T690I STORAGE TOOLKIT INITIALIZATION HAS COMPLETED
Explanation: The Storage Toolkit initialization process is complete and successful.
System action: None.
User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T691E STORAGE TOOLKIT INITIALIZATION HAS FAILED
Explanation: The Storage Toolkit initialization process has failed.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. Look for additional error messages earlier in the log file. This
KS3T692E • KS3T701I

KS3T692E  Existing XMIT session but REQ != END
Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T693E  New XMIT session but REQ != START
Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T694E  New XMIT session but no REQ attribute
Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T695E  There must be exactly one ID attribute in the XMIT header
Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T696E  Internal error: PERMUTE attribute not YES or NO
Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T700I  STORAGE TOOLKIT TERMINATION HAS COMMENCED
Explanation: The Storage Toolkit is shutting down during normal shutdown of the Tivoli Enterprise Monitoring Server.

System action: None.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T701I  STORAGE TOOLKIT TERMINATION HAS COMPLETED
Explanation: The Storage Toolkit has shut down during normal shutdown of the Tivoli Enterprise Monitoring Server.
System action: None.
User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T702W DELETE FAILED FOR DATA SET [response dsname]
Explanation: The data set used to temporarily hold command output cannot be deleted.
System action: None.
User response: The data set might not actually exist if the Storage Toolkit ended abnormally before the data set status was recorded. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T703E Internal error: matching XML end tag not found
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T704E Internal error: unrecognized Storage Toolkit command
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T705E Internal error: missing Storage Toolkit command
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T706E Internal error: Unsupported request type
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T707E Internal error: resource count per variable is wrong
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T708E Internal error: No lock value in Tk_lock destructor
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T709E Internal error: no Storage Toolkit command to process
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T714W SERVICE REQUEST [request_number] COULD NOT BE CANCELED
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
KS3T716E • KS3T724E

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T716E Internal error: problem deleting REQUEST
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T717E Internal error: problem deleting REQUEST results
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T718I Content after start tag ignored
Explanation: Extraneous characters were found within XML and were ignored.
System action: None.
User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T719E ---End of parse 1---
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T720I STORAGE TOOLKIT SERVICES IN PROGRESS AT SHUTDOWN:
Explanation: Message KS3T720I is used to notify users that a list of service requests are still active when the Tivoli Enterprise Monitoring Server address space shut down. (Message KS3T730I, which follows this message, lists the service requests that are still active.)

The list of active services are recorded in the Tivoli Enterprise Monitoring Server Engine log file, RKLVLOG, and are displayed on the MVS system console.

System action: See message KS3T730I. All Active service requests have been canceled. However, batch jobs that were submitted by active service requests continue to execute. They will be processed, if the results are available, the next time that the Storage Toolkit starts.
User response: See message KS3T730I.

KS3T721I STORAGE TOOLKIT ANCHOR BLOCK DESTROY ERROR STATUS CODE [status_code] REASON CODE [reason_code]
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T722E Internal error: typeC record eyecatcher mismatch
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T723E Internal error: typeG record eyecatcher mismatch
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T724E Internal error: typeF record but typeG == 0
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage
continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T725E** Internal error: typeF NOT first_in_chain

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T726E** Internal error: typeF last_in_chain

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T727E** Internal error: typeF record eyecatcher mismatch

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T728E** Internal error: typeD record but typeG == 0

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T729E** Internal error: typeD record eyecatcher mismatch

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T730I** [request_name] STARTED AT [yy_mm_dd_hh_mm_ss]

**Explanation:** An action request started running at the specified time.

**System action:** None.

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T731E** Internal error: unknown record type

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T732I** Storage Toolkit command: ([command])

**Explanation:** The Storage Toolkit is about to process a command it has received.

**System action:** The Storage Toolkit processes the new command.

**User response:** None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

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**KS3T733E** Could not access the Storage Toolkit command output data. Verify that the RKS3DATA VSAM file exists and is accessible to the Tivoli Enterprise Monitoring Server address space. Verify that the RKANPAR data set contains a KS3ACTIN member that is correctly coded. RETCODE = [return_code]

**Explanation:** This message indicates that an internal error has occurred.
KS3T735E • KS3T742E

System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T735E  VSAM_begin_browse ReadBegin failed with code ([return_code])
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T736E  Unsupported comparison operator ([request_operator]) with REQUESTID
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. Or, if you have manually created a query in the Tivoli Enterprise Portal that accesses the TK_RESDTL table, ensure that the only comparison operators you use are LT, LE, GT, GE, EQ, and NE. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T737E  Unsupported comparison operator ([result_operator]) with RESULTID
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. Or, if you have manually created a query in the Tivoli Enterprise Portal that accesses the TK_RESDTL table, ensure that the only comparison operators you use are LT, LE, GT, GE, EQ, and NE. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T738E  Internal error: bad logic in get_next_detail program
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support.

KS3T739E  Internal error: </META> end tag not found where expected
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T740E  Internal error: </SUBSTITUTE> end tag not found where expected
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T741E  Internal error: </EXPAND> end tag not found where expected
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T742E  TSO/E ENVIRONMENT INITIALIZATION FAILED: COULD NOT LOCATE KDF ANCHOR BLOCK
Explanation:  This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KS3T743E  CONDITION VARIABLE INITIALIZATION FAILED. ERROR NUMBER [error_number]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T744E  MUTEX VARIABLE INITIALIZATION FAILED. ERROR NUMBER [error_number]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T745E  Internal error: </STORAGE-TOOLKIT> end tag not found where expected

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T746E  Quoted string found outside XML start tag

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T747E  Equal sign must follow the XML attribute name

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T748E  UNABLE TO ADD NEW CHECKPOINT RECORD FOR REQUEST [request_number]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T749E  SERVICE CHECKPOINT DATASET STORAGE ALLOCATION ERROR

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T751E  STORAGE TOOLKIT COULD NOT LOCATE ANCHOR BLOCK.

STATUS=[status_code]

REASON=[reason_code.]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T752E  UNABLE TO CREATE DATA SET [dsname] FOR REQUEST [request_number] USERID [userid]

RETURN CODE [return_code], UDS RETURN CODE [uds_return_code]

Explanation: An error was encountered while attempting to create the specified data set. If the [return_code] is not 0, the UDS encountered a serious error and terminated. A [return_code] of 16 indicates that a security environment could not be established because the user is not defined to the security product.
KS3T753E • KS3T760I

If the [return_code] is 0, review the [uds_return_code] for the specific error creating the data set. The values for the [uds_return_code] are as follows: 4=I/O or other error was encountered creating a data set; 12=The name of a data set is not valid; 16=The user is not authorized to create a data set.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T753E  NEW REQUEST HAS DUPLICATE KEY OF [request_number]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T754E  Internal error: Unable to locate ROWAQ

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T755E  SERVICE REQUESTS DISABLED DUE TO CHECKPOINT FAILURE, SOURCE = [program_id]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. Check for an earlier error message that contains additional error details, which are stored in the ITMS:Engine log, RKLVLOG.

KS3T756E  UNABLE TO CANCEL REQUEST [request_number].

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T757E  Internal error: Unable to update type D record

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T758E  Internal error: Invalid BASE64 source string ([source_string])

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This information is stored in the following log: the CT/Engine log, RKLVLOG.

KS3T759E  Timed-Out waiting for Checkpoint data set lock

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T760I  SERVICE REQUEST [request_number] STARTED. [request_type]

Explanation: An action request submitted by a user has started running.

System action: None.

User response: None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.
KS3T761E UNABLE TO READ CHECKPOINT DATASET FOR UPDATE FOR REQUEST [request_number], SOURCE = [program_id]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T762E UNABLE TO UPDATE CHECKPOINT DATASET FOR REQUEST [request_number], SOURCE = [program_id]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T763W UNABLE TO CONSOLIDATE SERVICE RESPONSES FOR REQUEST [request_number]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T764E UNABLE TO DELETE CHECKPOINT RECORD FOR REQUEST [request_number], SOURCE = [program_id]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T765E UNABLE TO READ ADMINISTRATION RECORD IN CHECKPOINT DATASET

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T766E UNABLE TO UPDATE ADMINISTRATION RECORD IN CHECKPOINT DATASET

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T767E UNABLE TO ADD NEW 'Type G' CHECKPOINT RECORD FOR REQUEST [request_number]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T768E UNABLE TO ADD NEW 'Type F' CHECKPOINT RECORD FOR REQUEST [request_number]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KS3T769I  SERVICE REQUEST [request_number] COMPLETED. RC=[return_code]
Explaination:   An action request submitted by a user has completed.
System action:  None.
User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T770I  SERVICE REQUEST [request_number.execution_number] CANCELED. [request_type], Action Name ([action_name])
Explaination:   An action request submitted by a user has been canceled.
System action:  None.
User response:  None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T772W  Parameter [keyword] value [value] is less than the minimum [minimum_value] or greater than the maximum [maximum_value].
Explaination:   This message indicates that an internal error has occurred.
System action:  Tivoli OMEGAMON XE for Storage continues, after setting parameter [keyword] value to the minimum value [minimum_value].
User response:  None. This is a warning message. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T773E  Storage Toolkit parameter member [member_name] was not found.
Explaination:   The RKANPAR data set must contain the specified member; containing options that control Storage Toolkit processing.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Rerun the process provided by the Configuration Tool to create the [member_name] member. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T774E  The attempt to open Storage Toolkit parameter member [member_name] failed with return code [return_code].
Explaination:   This message indicates that an internal error has occurred. The [return_code] has these possible values and meanings: 4=Invalid handle; 5=Unsuccessful - open failed; 8=Dynamic allocation failed; 9=DSNAME greater than 44 characters; 10=DDNAME greater than 8 characters; >256=An abend occurred. The value is (abendcode * 256). Divide the value by 256. If the result is less than 4096, this is a system abend. If the result is greater than 4096, subtract 4096 to determine the user abend code.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Rerun the process provided by the Configuration Tool to create the [member_name] member. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T775E  The attempt to read Storage Toolkit parameter member [member_name] failed with return code [return_code].
Explaination:   This message indicates that an internal error has occurred. The [return_code] has these possible values and meanings: 4=Invalid handle; 5=Unsuccessful; >256=An abend occurred. The value is (abendcode * 256). Divide the value by 256. If the result is less than 4096, this is a system abend. If the result is greater than 4096, subtract 4096 to determine the user abend code.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T776E  The attempt to close Storage Toolkit parameter member [member_name] failed with return code [return_code].
Explaination:   This message indicates that an internal error has occurred. The [return_code] has these possible values and meanings: 4=Invalid handle; >256=An abend occurred. The value is (abendcode * 256). Divide the value by 256. If the result is less than 4096, this is a system abend. If the result is greater than 4096, subtract 4096 to determine the user abend code.
System action:  Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response:  Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
<table>
<thead>
<tr>
<th>KS3T777I</th>
<th>Storage Toolkit parameter member [member_name] was successfully read.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The specified member was read and processed successfully.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>The Storage Toolkit continues its initialization processing.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>None. This is an informational message. This information is stored in the ITMS:Engine log, RKLVLOG.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KS3T778E</th>
<th>Storage Toolkit parameter member [member_name] was not successfully read.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>This message indicates that an internal error has occurred.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KS3T779E</th>
<th>The JOB card in Storage Toolkit parameter member [member_name] is missing or invalid.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The RKANPAR data set must contain the specified member, containing a valid JOB card that controls Storage Toolkit processing.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Rerun the process provided by the Configuration Tool to create the JOB card in [member-name] member. This information is stored in the ITMS:Engine log, RKLVLOG.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KS3T780E</th>
<th>Internal error: The [attribute] attribute on the [tagname] XML tag is missing or invalid.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>This message indicates that an internal error has occurred.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>KS3T781E</th>
<th>Internal error: The [tagname] XML tag is not valid.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>This message indicates that an internal error has occurred.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>KS3T782E</th>
<th>Internal error: The CREDENTIALS XML tag is missing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>This message indicates that an internal error has occurred.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>KS3T783E</th>
<th>Internal error: The value for the [attribute] attribute on the RUN_OPTIONS XML tag is too long or not numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>This message indicates that an internal error has occurred.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
</tr>
</tbody>
</table>

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<tr>
<th>KS3T784E</th>
<th>Internal error: [tagname] end tag not found where expected.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>This message indicates that an internal error has occurred.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>KS3T785E</th>
<th>Internal error: The [name] is missing or invalid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>This message indicates that an internal error has occurred.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.</td>
</tr>
</tbody>
</table>

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KS3T791E  Internal error: Getting USER JOB CARD
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T792E  UNABLE TO ADD NEW 'Type C' CHECKPOINT RECORD FOR REQUEST [request_number]
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T793E  Internal error: Getting [data]
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T794E  EDITJCL data set name required
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T795E  Internal error: USER username required
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T796E  Internal error: UnScramble returned STC1 error [return_code]
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T797E  EDITJCL problem returning JCL data set [dsname] content for user [userid]
Explanation: An error was encountered while attempting to read the specified data set. Review the log, RKLVLOG, for additional messages that identify the specific error.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T798E  EDITJCL problem saving JCL content to data set [dsname] for user [userid]
Explanation: An error was encountered while attempting to write the specified data set. Review the log, RKLVLOG, for additional messages that identify the specific error.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KS3T800E  DFSMSdss Storage Toolkit Address
Space has not been configured correctly

Explanation: The SLAVESTCNAME keyword and value were not found in the KS3ACTIN parameter member.

System action: The Storage Toolkit is unable to run DFSMSdss action requests.

User response: Rerun the process provided by the Installation and Configuration Assistance Tool to create a valid KS3ACTIN member. This information is stored in the ITMS:Engine log, RKLVLOG.

KS3T801E  SERVICE CHECKPOINT DATASET
OWNERSHIP ACQUIRE ERROR.
DSN=[dsname]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T802W  SERVICE CHECKPOINT DATASET
OWNERSHIP RELEASE ERROR.
DSN=[dsname]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T811E  SERVICE CHECKPOINT DATASET
OPEN ERROR RETURN CODE
[status_code] REASON CODE
[reason_code]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T812W  SERVICE CHECKPOINT DATASET
CLOSE ERROR INVALID HANDLE

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T821E  SERVICE CHECKPOINT DATASET
[request_type] REQUEST ERROR
INVALID HANDLE

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T822E  SERVICE CHECKPOINT DATASET
[request_type] REQUEST ERROR
VSAM RETURN CODE [rpl_rtncd]
VSAM REASON CODE [rpl_errcd]

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T823E  SERVICE CHECKPOINT DATASET
[request_type] REQUEST ERROR
BUFFER TOO SMALL

Explanation: This message indicates that an internal error has occurred.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.
KS3T824E REQUEST ERROR
RETURN CODE [return_code] NOT RECOGNIZED
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T830E SERVICE CHECKPOINT DATASET
STORAGE EXHAUSTED. PUT ERROR
VSAM RETURN CODE [rpl_rtncd]
VSAM REASON CODE [rpl_errcd]
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T840E Internal error: error analyzing EDITJCL options
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T841E Internal error: error analyzing USER options
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T842E Internal error: REQUEST has no GUI_OPTIONS data
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T843E Internal error: REQUEST or RESULT has no GET_RESOURCES data
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T844E Internal error: USER has no JOB_CARD data
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T850E Internal error: UpdateRtndata has invalid parameter
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T851E Internal error: REQUEST number must be present
Explanation: This message indicates that an internal error has occurred.
System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.
**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T852E Internal error: allocate [buffer] buffer**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T853E Internal error: Scheduling auto-delete results**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T891E UNABLE TO ALLOCATE SERVICE RESPONSE DATASET**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T892E SERVICE RESPONSE DATASET OPEN ERROR [response_dsname] [status], SOURCE = [program_id]**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T893E SERVICE RESPONSE DATASET [function] ERROR [dsname] [return_code], SOURCE = [source]**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T894E INVALID SPACE VALUES [space_specification] FOR ACTION [request_type]**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T895E SERVICE RESPONSE DATASET [function] ERROR [dsname] [return_code], SOURCE = [source]**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T899E COULD NOT LOCATE STORAGE TOOLKIT ANCHOR BLOCK**

**Explanation:** This message indicates that an internal error has occurred.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

**KS3T900E UDS [function] FAILED WITH CONDITION CODE [return_code], UDS RETURN CODE [uds_return_code]**

**Explanation:** An error was encountered while attempting UDS [function]. If the [return_code] is not 0, the UDS terminated. Possible [return_code] values are:

- 16=A security environment could not be established because the user is not defined to the security product
- 20=An error occurred establishing the security environment
- 100=An abend occurred causing the UDS to terminate.

If the [return_code] is 0, review the [uds_return_code]. Possible [uds_return_code] values are:
KS3T901E  •  KS3T906E

- 4=I/O or other error was encountered creating a data set
- 12=The name of a data set is not valid
- 16=The user is not authorized to create a data set.

KS3T752E should also precede this message in the RKLVLOG. Refer to it for additional information.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.


Explanation: An error was encountered while attempting to read or write to the specified data set. If the [return_code] is not 0, the UDS encountered a serious error and terminated. A [return_code] of 16 indicates that a security environment could not be established because the user is not defined to the security product.

If the [return_code] is 0, review the [uds_return_code] for the specific error accessing the data set. The values for the [uds_return_code] are as follows:

[READ]
- 4=Insufficient buffer space. The number of records in the data set is excessive
- 8=Data set does not exist.
- 12=Member in a partitioned data set does not exist.
- 16=User is not authorized to read the data set.
- 20=I/O or other read errors.
- 32=Data set organization mismatch. The user specified a member of a partitioned data set, but the data set is sequential or the user specified a sequential data set name, but the data set is partitioned.
- 36=Data set is in use.
- 40=Data set is not a fixed length format.
- 44=Data set LRECL is not 80.

[WRITE]
- 4=Insufficient data set space. The data set ran out of space.
- 8=Data set does not exist or the data set needs to be created, but the create failed.
- 12=The data set needs to be created, but the name is not valid.
- 16=User is not authorized to write to the data set or the data set needs to be created, but the user is not authorized to create it.
- 20=I/O or other write errors.
- 32=Data set organization mismatch - the user specified a member of a partitioned data set, but the data set is sequential or the user specified a sequential data set name, but the data set is partitioned.
- 36=Data set is in use.
- 40=Data set is not a fixed length format.
- 44=Data set LRECL is not 80.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T903E  [function] FAILED [return_code]: UNABLE TO ESTABLISH SECURITY ENVIRONMENT FOR [userid]

Explanation: A data set read, write, or delete was attempted, but a security environment could not be established because the user is not defined to the security product.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T904E  [function] FAILED [return_code]: USER [userid] NOT AUTHORIZED TO [function] [dsname]

Explanation: A data set read, write, or delete was attempted, but the user is not authorized.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

KS3T906E  READ FAILED FOR DATA SET [dsname]

Explanation: An error was encountered while attempting to read the specified data set. See message KS3TK901E for additional information. KS3T901E should precede this message in the RKLVLOG.

System action: Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

User response: Contact IBM Software Support. This
KS3T907E  Batch job error. [dsname] is empty.

**Explanation:** An error was encountered while processing a batch job. The user specified a data set that is empty.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T908E  Batch job [dsname] data set read error [return_code]

**Explanation:** This message indicates that an internal error has occurred. Batch job processing attempted to read or process the specified data set, but it failed. The following [return_codes] might be specified and are used for internal processing only:

- 5=Invalid JCL - the data set was read successfully, but one or more records exceeded 80 characters
- 16=User is not authorized to read the data set
- 119=The UDS encountered a serious error and terminated
- 123=Some other error was encountered reading the data set. Possible errors include: the data set was empty, excessive number of records in the data set, the data set does not exist, the data set is in use, the data set format is not fixed length, the LRECL of the data set is not 80, and so on.

Other messages might also be present in the RKLVLOG.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T909E  Batch job [dsname] data set write error [return_code]

**Explanation:** This message indicates that an internal error has occurred. Batch job processing attempted to write to the specified data set, but it failed. The following [return_code] values might be specified and are used for internal processing only:

- 4=Insufficient data set space. The data set ran out of space
- 8=Data set does not exist.
- 16=User is not authorized to write to the data set
- 20=I/O and other write errors
- 32=Data set organization mismatch. The data set is partitioned, but a member name was not specified
- 36=Data set is in use.
- 119=The UDS encountered a serious error and terminated.

Other messages might also be present in the RKLVLOG.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3T910E  JCL contains )DOT with no )ENDDOT

**Explanation:** An error was encountered while parsing JCL. The )DOT occurs with no corresponding )ENDDOT.

**System action:** Tivoli OMEGAMON XE for Storage continues, but the operation triggering the error does not complete.

**User response:** Contact IBM Software Support. This problem information is stored in the ITMS:Engine log, RKLVLOG.

---

KS3U001E  Multiple selection is not allowed for this action.

**Explanation:** The command selected is not allowed when the underlying table has multiple rows selected.

**User response:** Select only one row and retry the operation.

---

KS3U002W  This action might cause undesirable results. Do you want to continue?

**Explanation:** The action that is about to be performed might have an impact on a previous action, or might significantly alter existing data.

**User response:** Verify that the specified action is correct before continuing.

---

KS3U003E  Select at least one day in the week.

**Explanation:** The user must select at least one day of the week on the Schedule tab for weekly schedules.

**User response:** Select the Schedule tab, and then select one or more days for this to be scheduled.
KS3U004I Too many entries in the volume exclusion list.
Explanation: The volume exclusion list contains more than 32 entries.
User response: Reduce the number of excluded volumes.

KS3U005I Too many entries in the storage group exclusion list.
Explanation: The storage group exclusion list contains more than 32 entries.
User response: Reduce the number of excluded storage groups.

KS3U006I Panel data has been changed, save and set to effect before continue?
Explanation: An action is requested before the panel data is saved. The question is asked only if the panel data has been changed. Answering "yes" causes the data to be saved before the action is taken.
User response: Answering "yes" causes the data to be saved before the action is taken. Answering "no" causes the action to run without saving of the data.

KS3U007E The volume specified cannot be found or is unknown type.
Explanation: The volume that was specified cannot be found or cannot be used.
User response: Correct the text that you entered.

KS3U008E The date specified is not valid.
Explanation: The user specified date was not correct.
User response: Check the help for the correct syntax and correct the text that you entered.

KS3U009W You are about to cancel one or more HSM requests. Cancelling HSM requests can have detrimental consequences for your system. You should only cancel requests that are queued (not yet executing) or that are hung. More information can be found in the IBM publication 'z/OS DFSMShsm Storage Administration Reference.' Do you wish to cancel these HSM requests?
Explanation: This action should only be performed against HSM requests that are currently queued or hung since this action might impact your system.
User response: The user might wish to read the information in 'z/OS DFSMShsm Storage Administration Reference' before continuing with this command.

KS3U010E Select an action from the list.
Explanation: The user must select a command to be run before they can continue.
User response: Select a command.

KS3U011E Command submission dialog could not be created.
Explanation: The command submission dialog could not be created probably due to communications between the Tivoli Enterprise Portal and the Tivoli Enterprise Monitoring Server.

KS3U012I The data set or member does not exist. Do you want to create a new one?
Explanation: The data set or member containing the JCL does not exist on the host. Should it be created?
User response: The user should specify yes to create a new JCL data set or member and no to use a different data set or member.

KS3U013W The data set or member does not exist.
Explanation: The data set or member containing the JCL cannot be found.
User response: Specify a different data set or member that contains the JCL.

KS3U014W The data set is empty.
Explanation: The data set contains no data.
User response: Specify a different data set containing the JCL.

KS3U015W The command has been modified from the original; a new request is created.
Explanation: A command can be invoked again (resubmitted) only if the command itself and essential parameters are unchanged. The software has detected a command change made by the user that prevents it from being resubmitted. The option is given so that a new command request can be created to reflect the command changes.
User response: Answering "yes" causes generation of a new request that contains the new command (with the changes). Answering "no" causes abandonment of the
resubmit operation, because the command cannot be resubmitted.

KS3U016E The resubmission of this command is not supported.

Explanation: Requests generated by certain previous versions of the product might be resubmitted as they were supported in the previous versions. If attempts are made to resubmit them in the context supported by the new version only, this message is shown.

User response: Select a request created by the new version, or create a new request to be submitted in this context.

KS3U017W At least one command variable contains an empty data value. Do you want to continue?

Explanation: At least one empty value is detected that is attached to a substitution variable. This situation is often a result of a variable not being resolved by the selected data (in other words, the variable attribute does not exist in the underlying data table). Attention is needed, but an empty value is not always a problem.

User response: Verify if the data is intended by using the "show data" button. Correct the attribute name if needed.

KS3U018E You are not authorized to access this data set.

Explanation: The user is not authorized to read the data set.

User response: If your user ID is valid, then you are not authorized to read the data set. Choose a data set that you are authorized to access. If your user ID is not valid, contact your System Administrator. Your user ID must be defined to the security product on the z/OS system where the Tivoli OMEGAMON XE for Storage monitoring agent runs.

KS3U019E The data set or member could not be accessed due to I/O or some other data set error.

Explanation: An error occurred reading the data set or member.

User response: An I/O or other error occurred reading the data set or member. If the problem persists, contact your System Administrator. Note that you cannot access VSAM data sets using this dialog box.

KS3U020E The dataset or member exceeds the maximum allowable size of 9999 records.

Explanation: The number of records in the data set or member exceeded the storage limitation, therefore you cannot edit this data set.

User response: You cannot edit this data set or member because it contains an excessive number of records. Choose a data set with a fewer number of records.

KS3U021E The data set could not be accessed due to an incorrect data set organization. The data set must be a sequential or a fully qualified member of a partitioned data set.

Explanation: The data set that you specified is partitioned, but you did not specify a member name. Also, you might have specified a member of a partitioned data set, but the data set is sequential.

User response: Correct the data set name and retry. Note that you cannot access VSAM data sets using this dialog box.

KS3U022E The data set or member could not be accessed. It is currently in use.

Explanation: The data set or member is currently being used by another user or process.

User response: The data set or member is currently in use. Try again later.

KS3U023E The data set could not be updated due to insufficient space.

Explanation: The data set or its directory ran out of space.

User response: The data set does not have sufficient space to write all of the records or to add a new member to the directory. The write cannot continue. You might wish to consider: creating a larger data set increasing the size of the directory compressing the data set

KS3U024E The data set or member was not created due to I/O or some other data set error.

Explanation: The data set or member did not exist. An attempt was made to create it, but an error occurred.

User response: An I/O or other error occurred creating the data set or member. Verify that there is enough space to create it. Verify that the data set name is valid. If the problem persists, contact your System Administrator.
KS3U025E  The data set or member could not be updated due to I/O or some other data set error.

Explanation:  An error occurred writing to the data set or member.

User response:  An I/O or other error occurred writing to the data set or member. If the problem persists, contact your System Administrator.

KS3U026E  You are not authorized to update this data set.

Explanation:  You are not authorized to update or create the data set.

User response:  If your user ID is valid and the data set does not exist, you are not authorized to create it. Also, if your user ID is valid and the data set exists, you are not authorized to update it. If your user ID is not valid, contact your System Administrator. Your user ID must be defined to the security product on the z/OS system where the Tivoli OMEGAMON XE for Storage monitoring agent runs.

KS3U027E  The data set could not be updated due to an incorrect data set organization. The data set must be a sequential or a fully qualified member of a partitioned data set.

Explanation:  The data set that you specified is partitioned, but you did not specify a member name. Also, you might have specified a member of a partitioned data set, but the data set is sequential.

User response:  Correct the data set name and retry. Note that you cannot access VSAM data sets using this dialog box.

KS3U028E  The data set or member could not be updated. It is currently in use.

Explanation:  The data set or member is currently being used by another user.

User response:  The data set or member is currently in use. Try again later.

KS3U029I  The limit for the amount of input has been exceeded. The maximum number of input allowed is maxinput.

Explanation:  The user input exceeds the maximum number of maxinput

User response:  Reduce the amount of input.

KS3U030E  The specified variable must be associated with a value. Literal values must be enclosed in a pair of single or double quotation marks.

Explanation:  The value you specified for the variable name is incorrect. Variable values must be selected from the drop-down list or if it is a literal string, must be enclosed in a pair of single or double quotation marks, and cannot be empty.

User response:  Select a value from the drop-down list or include the literal string in a pair of single or double quotation marks.

KS3U031E  The data set specified must be fixed record length.

Explanation:  The data set specified must be fixed record length.

User response:  Change data set record format to fixed length and try again.

KS3U032E  The data set specified must be record length 80.

Explanation:  The data set specified must be record length 80.

User response:  Change data set record length to 80 and try again.

KS3U033E  The character * is valid only at the end of the application mask.

Explanation:  When specifying the application mask, you can list only the asterisk (*) character as the final character.

User response:  Remove any asterisk (*) characters from the middle of the application mask field.

KS3U034E  You have entered a high level qualifier that will cause all applications on the system to be added into this group. It will take a considerable amount of time and resources (CPU) to complete this operation. You should avoid this situation if possible.

Explanation:  By specifying the application mask as the asterisk (*) character, you cause all of the applications on the system to be added into the specified group. Expect potential performance issues as a result of this resource intensive operation.

User response:  Continue the operation. This message serves only as a warning.
KS3U035E The extension variable *DSNG is required when the slave variable *VOL@*DSNG is specified.

Explanation: When specifying the slave variable *VOL@*DSNG, the corresponding extension variable *DSNG must be specified as well.

User response: Add a variable whose value is *DSNG.

KS3U036E The extension variable *DSNAG is required when the slave variable *VOL@*DSNAG is specified.

Explanation: When specifying the slave variable *VOL@*DSNAG, the corresponding extension variable *DSNAG must be specified as well.

User response: Add a variable whose value is *DSNAG.

KS3U052I "{0}" out of "{1}" HSM requests cannot be cancelled. The target TEMS (Tivoli Enterprise Management Server) node is not available.

Explanation: The target TEMS (Tivoli Enterprise Management Server) node for the selected HSM requests to be cancelled is not available. If the request status is active, the target TEMS node is the processing TEMS node. If the request status is queued, the target TEMS node is the originating TEMS node. The target TEMS node is unavailable if listed as N/A or no value.

User response: Select HSM requests with target TEMS node.

KS3V001E The text length has been exceeded.
The maximum length is maxlength.

Explanation: The user input exceeds the maximum length of maxlength.

User response: Correct the text that you entered.

KS3V002E Invalid character character found in the text.

Explanation: The user input contains a character maxlength that is not allowed for this input field.

User response: Correct the text that you entered.

KS3V003E The value of this field has exceeded the allowed range of minnum to maxnum.

Explanation: The user input is out of range. The number that you enter must be between minnum and maxnum inclusively.

User response: Correct the text that you entered.

KS3V004E The field should contain only numerical characters.

Explanation: The user input contains characters that are not numeric.

User response: Correct the text that you entered.

KS3V005E The field content is not valid.

Explanation: The user input contains a character that is not valid in the context in which it is used. For example, the user inputs a numeric value in the first position of a name field.

User response: Correct the text that you entered.

KS3V006E Character char is not allowed at this position.

Explanation: The user input contains a character char that is not valid in the context in which it is used. For example, the user inputs a numeric value in the first position of a name field.

User response: Correct the text that you entered.

KS3V007E The DSN contains invalid qualifier.

Explanation: The user input for a data set name contains a qualifier part that is incorrect. Usually this means that a qualifier is greater than 8 characters in length.

User response: Correct the text that you entered.

KS3V008E The number of string tokens is not valid. The valid range is minnum to maxnum.

Explanation: Number of tokens found in the user input exceeds the expected range. Tokens are usually delimited by a special character or blanks. The number of tokens must be between minnum and maxnum inclusively.

User response: Correct the text that you entered.

KS3V009E The text does not match required pattern.

Explanation: The user input does not match the syntax required for this field.

User response: Check the help to see the valid syntax and correct the text that you entered.

KS3V010E This field is a required field.

Explanation: The user must supply a value for the field.

User response: Enter data in the specified field.
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS3V011E</td>
<td>The text must be either yyyy/ddd or yyddd.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user input does not match the required date syntax.</td>
</tr>
<tr>
<td>User response</td>
<td>Correct the text that you entered.</td>
</tr>
<tr>
<td>KS3V012E</td>
<td>At least one field must contain a value.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user must specify data for at least one of a group of fields.</td>
</tr>
<tr>
<td>User response</td>
<td>Specify input for one of the fields.</td>
</tr>
<tr>
<td>KS3V013E</td>
<td>JCL line linenum exceeds maxlength characters. Maximum number of characters is length</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user input on line linenum exceeded the maximum line length of maxlength</td>
</tr>
<tr>
<td>User response</td>
<td>Correct the text that you entered.</td>
</tr>
<tr>
<td>KS3V014E</td>
<td>The data set or member name is not valid. The name must be a sequential file name or a fully qualified name of a partitioned data set.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user input contains a data set name that is not valid. The name that you provide must be one of the following types: a sequential file name or a fully qualified name of a partitioned data set.</td>
</tr>
<tr>
<td>User response</td>
<td>Enter a sequential file name or a fully qualified name of a partitioned data set.</td>
</tr>
<tr>
<td>KS3V017E</td>
<td>The syntax of email address specified is not valid.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user input is not a syntactically correct email address.</td>
</tr>
<tr>
<td>User response</td>
<td>Correct the text that you entered.</td>
</tr>
<tr>
<td>KS3V018E</td>
<td>The text contains characters that are not valid for this field.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user input contains at least one character that is not valid for the field.</td>
</tr>
<tr>
<td>User response</td>
<td>Check the help to see the valid character set and correct the text that you entered.</td>
</tr>
<tr>
<td>KS3V019E</td>
<td>Input is required in either the INCLUDE data sets or EXCLUDE data sets fields</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user must specify data for at least one of the two fields.</td>
</tr>
<tr>
<td>User response</td>
<td>Specify input for one of the fields.</td>
</tr>
<tr>
<td>KS3V020E</td>
<td>The text must be yyyy/ddd or yyddd. yyyy has exceeded the allowed range of 0 to 9799.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user input for the year exceeds the allowable range. The range is 0 to 9799, inclusively.</td>
</tr>
<tr>
<td>User response</td>
<td>Correct the text that you entered.</td>
</tr>
<tr>
<td>KS3V021E</td>
<td>The text must be yyyy/ddd or yyddd. ddd has exceeded the allowed range of 1 to 366.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user input for the day of the year is outside the allowable range. The range is 1 to 366, inclusively.</td>
</tr>
<tr>
<td>User response</td>
<td>Correct the text that you entered.</td>
</tr>
<tr>
<td>KS3V022E</td>
<td>This field is a required field, it must be exactly length characters in length.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user must specify input for this field and the input must be exactly length characters in length.</td>
</tr>
<tr>
<td>User response</td>
<td>Correct the text that you entered.</td>
</tr>
<tr>
<td>KS3V023E</td>
<td>The text length is too short. The minimum length is length</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user input does not contain enough characters, the minimum character length for this field is length.</td>
</tr>
<tr>
<td>User response</td>
<td>Correct the text that you entered.</td>
</tr>
<tr>
<td>KS3V024E</td>
<td>The volser specified is not valid. Must be an indirect serial or a serial number.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The user volume input is a not a valid volume serial number or an indirect volume serial.</td>
</tr>
<tr>
<td>User response</td>
<td>The volume input must be an indirect volume serial number or a volume serial number.</td>
</tr>
<tr>
<td>KS3V025E</td>
<td>The offset specified is not valid.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The byte offset in the logical record to be copied before which a SO character is to be inserted or the byte offset in the logical record to be copied after which a SI character is to be inserted is not valid.</td>
</tr>
<tr>
<td>User response</td>
<td>Verify the input and try again.</td>
</tr>
<tr>
<td>KS3V026E</td>
<td>The char option cannot be specified with the char option.</td>
</tr>
<tr>
<td>Explanation</td>
<td>The two options are mutually exclusive.</td>
</tr>
<tr>
<td>User response</td>
<td>Select one of the two parameters and try again.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>KS3V027E</td>
<td>The level name specified is not valid.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The level name specified is not valid. If a generic level name is specified, only one qualifier replaces the *. The * must not be the last character specified in the LEVEL parameter.</td>
</tr>
<tr>
<td>User response:</td>
<td>Verify the input and try again.</td>
</tr>
<tr>
<td>KS3V028E</td>
<td>The extended or indirect volume serial number must be specified with a generic device name. A generic device name is required.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The extended or indirect volume serial number was specified without a generic device name. A generic device name is required.</td>
</tr>
<tr>
<td>User response:</td>
<td>Enter the generic device name and try again.</td>
</tr>
<tr>
<td>KS3V029E</td>
<td>The generic device name must be specified with an extended or indirect volume serial number. An extended or indirect volume serial number is required.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The generic device name was specified without an extended or indirect volume serial number. An extended or indirect volume serial number is required.</td>
</tr>
<tr>
<td>User response:</td>
<td>Enter the extended or indirect volume serial number and try again.</td>
</tr>
<tr>
<td>KS3V030E</td>
<td>At least one device name must be specified for this command.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>At least one device name must be specified for this command.</td>
</tr>
<tr>
<td>User response:</td>
<td>Enter a value and try again.</td>
</tr>
<tr>
<td>KS3V031E</td>
<td>At least one volume serial number must be specified for this command.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>At least one volume serial number must be specified for this command.</td>
</tr>
<tr>
<td>User response:</td>
<td>Enter a value and try again.</td>
</tr>
<tr>
<td>KS3V032E</td>
<td>The entry name specified is not valid.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The entry name specified is not valid. If a generic entry name is specified, only one qualifier replaces the asterisk (*).</td>
</tr>
<tr>
<td>User response:</td>
<td>Verify the input and try again.</td>
</tr>
<tr>
<td>KS3V033E</td>
<td>Store Number must be specified when both NAME and NextVRS are specified.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>Store Number must contain a value if NAME is selected and a value has been entered in the NextVRS field.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>Verify the input and try again.</td>
</tr>
<tr>
<td>KS3V034E</td>
<td>The device address range is invalid.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The last device must be greater than the first device.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>Verify the input and try again.</td>
</tr>
<tr>
<td>KS3V035E</td>
<td>At least one DASD device or attribute needs to be defined.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>At least one DASD device (Volser or Pattern, Device Address or Device Range, or SMS Storage Group) or an attribute from the Attribute tab must be specified to create a User DASD Group.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>Verify the input and try again.</td>
</tr>
<tr>
<td>KS3V036E</td>
<td>Group Name already exists, please choose a different name.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The specified group name already exists.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>Change the group name and try again.</td>
</tr>
<tr>
<td>KS3V037E</td>
<td>The character * is only valid at the end of a volume specification.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The asterisk * character is valid only when it is used as the last character of the pattern specification.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>Verify the input and try again.</td>
</tr>
<tr>
<td>KS3V038E</td>
<td>At least one value must be specified on either the Properties or Attributes tab.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>At least one value must be specified on either the Properties or Attributes tab.</td>
</tr>
<tr>
<td>System action:</td>
<td>None.</td>
</tr>
<tr>
<td>User response:</td>
<td>Verify the input and try again.</td>
</tr>
</tbody>
</table>
KS3V039E  •  KS3V049E

User response: Specify a value on the Properties or Attributes tab and try again.

KS3V039E  An operator must be specified.
Explanation: No operator was specified for the selected attribute.
System action: None.
User response: Specify an operator for the selected attribute and try again.

KS3V040E  An attribute must be specified.
Explanation: No attribute was specified for the dynamic group definition.
System action: None.
User response: Specify an attribute and try again.

KS3V041E  A value must be specified.
Explanation: No value was specified for the selected attribute.
System action: None.
User response: Specify a value for the selected attribute and try again.

KS3V042E  The value specified is invalid. The value must be an integer in the range min <Variable> to max <Variable>.
Explanation: The value specified for the selected attribute is invalid. The value might not be a valid integer or it might be out of range.
System action: None.
User response: Modify the value and try again.

KS3V043E  The value specified is invalid. The value must be an integer.
Explanation: The value specified for the selected attribute is not an integer.
System action: None.
User response: Specify a valid integer and try again.

KS3V044E  The year specified is invalid. The year must be an integer in the range min <Variable> to max <Variable>.
Explanation: The year specified is invalid. The year might not be a valid integer or it might be out of range.
System action: None.
User response: Specify a valid year and try again.

KS3V045E  The maximum number of group filter criteria has been exceeded. The maximum number is [max].
Explanation: Too many filter criteria have been specified.
User response: Reduce the number of filter criteria being selected and retry the operation.

KS3V046E  The maximum size of the group filter criteria buffer has been exceeded. Please reduce the number of group filter criteria.
Explanation: Too many filter criteria have been specified.
User response: Reduce the number of filter criteria being selected and retry the operation.

KS3V047E  The value specified exceeds the maximum length allowed. The maximum length is <Variable> characters.
Explanation: The value specified for the selected attribute exceeds the maximum number of characters allowed.
System action: None.
User response: Reduce the number of characters and try again.

KS3V048E  The selected group could not be found. Please refresh the view and try again.
Explanation: An error occurred while trying to locate a group. Some possible explanations are: Communication problems between the monitoring server and the portal server, or the group was deleted from a different portal server.
User response: Check the communications between the monitoring server and the portal server and refresh the view.

KS3V049E  The value specified is invalid. The value must be a hexadecimal number in the range min <Variable> to max <Variable>.
Explanation: The value specified is invalid. The value might not be a valid integer or it might be out of range.
System action: None.
User response: Specify a valid integer and try again.
**KS3V050E** The date specified is invalid. The date must be in the range [min] to [max].

**Explanation:** The date specified for the selected attribute is invalid.

**User response:** Modify the date and try again.

---

**KS3V051E** The value specified in the "(1)" field must be greater than the value specified in the "(0)" field.

**Explanation:** For the pair of values specified, one value must be larger than the other value.

**User response:** Modify the values and try again.

---

**KS3V200I** TS7700 BVIR response file parsed for GLSEQNUM

**Explanation:** This message indicates that the BVIR response file was parsed successfully for the TS7700 library with the indicated Grid Library Sequence Number.

**User response:** None. This is an informational message.

---

**KS3V201E** TS7700 BVIR response file corrupt or missing.

**Explanation:** This message indicates that the BVIR response file could not be parsed successfully because of corrupt or missing data.

**User response:** Contact IBM Software Support.

---

**KS3V202E** KLE_SamPut failed with KLE_SAMRC_INVHDL (Invalid handle). rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.

---

**KS3V203E** KLE_SamPut failed with KLE_SAMRC_MODE (SAM file opened for input). rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.

---

**KS3V204E** KLE_SamPut failed with KLE_SAMRC_IOERR (I/O error occurred). rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.

---

**KS3V205E** KLE_SamPut failed with KLE_SAMRC_USAGE (prior errors prevented current fcn from completing). rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.

---

**KS3V206E** KLE_SamPut failed with KLE_SAMRC_ABEND. rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.

---

**KS3V207E** KLE_SamPut returned and unknown code. rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.

---

**KS3V208E** KLE_SamGet failed with KLE_SAMRC_INVHDL (Invalid handle). rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.

---

**KS3V209E** KLE_SamGet failed with KLE_SAMRC_MODE (SAM file opened for output). rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.

---

**KS3V210E** KLE_SamGet failed with KLE_SAMRC_RDW (variable length record with a bad RDW was detected). rc=(rc)

**Explanation:** This message indicates that an internal error has occurred.

**User response:** Contact IBM Software Support.
KS3V211E  KLE_SamGet failed with 
KLE_SAMRC_IOERR (I/O error 
occurred). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V212E  KLE_SamGet failed with 
KLE_SAMRC_USAGE (prior errors 
prevented current fcn from 
completing). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V213E  KLE_SamGet failed with 
KLE_SAMRC_ABEND. rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V214E  KLE_SamGet returned and unknown 
code. rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V215E  KLE_SamOpen failed with 
KLE_SAMRC_DDNAME (DDNAME too 
long or missing). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V216E  KLE_SamOpen failed with 
KLE_SAMRC_RECFM (RECFM of the 
file not supported). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V217E  KLE_SamOpen failed with 
KLE_SAMRC_DSORG (handle does not 
point to a file whose DSORG=PS). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V218E  KLE_SamOpen failed with 
KLE_SAMRC_RDJFCB (RDJFCB macro 
failed). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V219E  KLE_SamOpen failed with 
KLE_SAMRC_OPENFAIL (open process 
failed). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Make sure the file can be accessed.

KS3V220E  KLE_SamOpen failed with 
KLE_SAMRC_INIT (Resource create 
failed). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V221E  KLE_SamOpen failed with 
KLE_SAMRC_OBTAIN (OBTAIN macro 
failed). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V222E  KLE_SamOpen failed with 
KLE_SAMRC_ABEND. rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V223E  KLE_SamOpen failed with unknown 
error. rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.

KS3V224E  KLE_SamOpen failed with 
KLE_SAMRC_DDNAME (DDNAME too 
long or missing). rc=( rc )
Explanation:  This message indicates that an internal 
error has occurred.
User response:  Contact IBM Software Support.
KS3V225E  KLE_SamOpen failed with KLE_SAMRC_RECFM (RECFM of the file not supported). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V226E  KLE_SamOpen failed with KLE_SAMRC_DSORG (handle does not point to a file whose DSORG=PS). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V227E  KLE_SamOpen failed with KLE_SAMRC_RDJFCB (RDJFCB macro failed). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V228E  KLE_SamOpen failed with KLE_SAMRC_OPENFAIL (open process failed). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V229E  KLE_SamOpen failed with KLE_SAMRC_INIT (Resource create failed). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V230E  KLE_SamOpen failed with KLE_SAMRC_OBTAIN (OBTAIN macro failed). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V231E  KLE_SamOpen failed with KLE_SAMRC_ABEND. rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V232E  KLE_SamOpen failed with unknown error. rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V233E  KLE_DynallocFinal failed with KLE_DYNRC_ERROR. rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V234E  KLE_DynallocError failed. rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V235E  KLE_DynallocFinal failed with KLE_DYNRC_BADHNDL. rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V236E  KLE_DynallocFinal failed with unknown error. rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V237E  KLE_DynallocInit failed with KLE_DYNARC_NULL (A parameter has a null value). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V238E  KLE_DynallocInit failed with KLE_DYNARC_INVKEY (Invalid keyword). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V239E  KLE_DynallocInit failed with KLE_DYNARC_INVINP (Valid keyword delimiter not found). rc=( rc )
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.
KS3V240E • KS3V249E

User response: Contact IBM Software Support.

KS3V240E KLE_DynallocInit failed with unknown error. rc=(rc)
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V241E KLE_DynallocFree failed with unknown error. rc=(rc)
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V242E KLE_DynUnalloc failed with KLE_DYNARC_NULLDD (DDNAME is null). rc=(rc)
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V243E KLE_DynUnalloc failed with KLE_DYNARC_INVDD (DDNAME is longer than 8 characters). rc=(rc)
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V244E KLE_DynUnalloc failed with KLE_DYNARC_NODDN (DDNAME not found). rc=(rc)
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V245E KLE_DynUnalloc failed with unknown error. rc=(rc)
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.

KS3V246E KLE_DynallocError returned: SVC99=(svc99) Reason code=(rc) Info code=(info)
Explanation: This message indicates that an internal error has occurred.
User response: Contact IBM Software Support.
Appendix. Documentation library

This appendix contains information about the publications in the Tivoli OMEGAMON XE for Storage on z/OS library and about other publications related to Tivoli OMEGAMON XE for Storage on z/OS.


To find a list of new and changed publications, click What’s new on the Welcome page of the IBM Tivoli Monitoring and OMEGAMON XE Information Center. To find publications for the previous version of a product, click Previous information centers on the Welcome page for the product.

Tivoli OMEGAMON XE for Storage on z/OS library

The following documents are available for Tivoli OMEGAMON XE for Storage on z/OS:

- *IBM Tivoli OMEGAMON XE for Storage on z/OS: Planning and Configuration Guide*, SC23-9702
  Documents the installation and configuration tasks necessary for the implementation of IBM Tivoli OMEGAMON XE for Storage on z/OS. This document is written for z/OS systems programmers and others who are responsible for installing and configuring IBM Tivoli OMEGAMON XE for Storage on z/OS.

  Introduces the features, workspaces, attributes, and predefined situations for the IBM Tivoli OMEGAMON XE for Storage on z/OS product and supplements the user assistance provided with this product.

- *IBM Tivoli OMEGAMON XE for Storage on z/OS: Tuning Guide*, SC23-9704
  Provides information on enhancing the performance of Tivoli OMEGAMON XE for Storage on z/OS so that you can get the maximum benefit with the least amount of resources.

- *IBM Tivoli OMEGAMON XE for Storage on z/OS: Troubleshooting Guide*, GC23-9705
  Contains messages for the IBM Tivoli OMEGAMON XE for Storage on z/OS product and OMEGAMON II for SMS component and information to help solve problems with the IBM Tivoli OMEGAMON XE for Storage on z/OS product.

- *Tivoli OMEGAMON XE for Storage on z/OS user assistance*
  Helps operators understand and use the provided data, attributes, commands, and situation to monitor performance and availability in the context of the product.

Shared OMEGAMON XE publications

The following publications provide information common to the OMEGAMON XE products:

- *Quick Start Guide*, GI11-8918
  Summarizes the installation and setup of an OMEGAMON XE monitoring agent on z/OS.

- *Common Planning and Configuration Guide*, SC23-9734
  Gives instructions for planning and configuration tasks common to the components of Tivoli Management Services on z/OS and the OMEGAMON XE monitoring agents on z/OS.

- *Upgrade Guide*, SC23-9745
  Gives instructions for complete and staged upgrades to V4.2.0 of the OMEGAMON XE products.

- *End-to-End Response Time Feature Reference*, SC27-2303
  Provides instructions and reference information for the End-to-End Response Time Feature, which supplies response time data to several OMEGAMON XE products.
• *Reports for Tivoli Common Reporting, SC27-2304*
  Explains how to use the Tivoli Common Reporting tool to create reports from data displayed in the Tivoli Enterprise Portal and stored in the Tivoli Data Warehouse database.

**IBM Tivoli Monitoring library**

The following publications provide information about IBM Tivoli Monitoring V6.2 and about the commonly shared components of Tivoli Management Services:

• *Quick Start Guide, GI11-8058*
  Introduces the components of IBM Tivoli Monitoring.

• *Exploring IBM Tivoli Monitoring, SC32-1803*
  Provides a series of exercises to help you explore IBM Tivoli Monitoring. By completing the activities in this workbook, you will install and configure your monitoring environment, explore both the graphical and command-line interfaces of the product, use some of the new features, and work with several monitoring agents.

• *Installation and Setup Guide, GC32-9407*
  Provides instructions for installing and configuring IBM Tivoli Monitoring components on Windows, Linux, and UNIX systems.

• *Program Directory for IBM Tivoli Management Services on z/OS, GI11-4105*
  Gives instructions for the SMP/E installation of the Tivoli Management Services components on z/OS.

• *IBM Tivoli Monitoring: Configuring the Tivoli Enterprise Monitoring Server on z/OS, SC27-2313*
  Gives detailed instructions for using the Configuration Tool to configure Tivoli Enterprise Monitoring Server on z/OS systems. Includes scenarios for using batch mode to replicate monitoring environments across the z/OS enterprise. Also provides instructions for setting up security and for adding application support to a Tivoli Enterprise Monitoring Server on z/OS.

• *Administrator's Guide, SC32-9408*
  Describes the support tasks and functions required for the Tivoli Enterprise Portal Server and clients, including Tivoli Enterprise Portal user administration.

• *Tivoli Enterprise Portal online help*
  Provides context-sensitive reference information about all features and customization options of the Tivoli Enterprise Portal. Also gives instructions for using and administering the Tivoli Enterprise Portal.

• *User's Guide, SC32-9409*
  Complements the Tivoli Enterprise Portal online help. The guide provides hands-on lessons and detailed instructions for all Tivoli Enterprise Portal features.

• *Command Reference, SC32-6045*
  Provides detailed syntax and parameter information and examples of the commands you can use in IBM Tivoli Monitoring.

• *Troubleshooting Guide, GC32-9458*
  Provides information to help you troubleshoot problems with the software.

• *Deployment Guide, SC23-8873*
  Outlines key activities such as planning, maintenance, and tuning considerations that are needed to ensure a successful deployment of your IBM Tivoli Monitoring environment.

• *Messages, SC23-7969*
  Lists and explains messages generated by all IBM Tivoli Monitoring components and by z/OS-based Tivoli Management Services components (such as Tivoli Enterprise Monitoring Server on z/OS and TMS:Engine).

• *Upgrading from V5.1.2, GC32-1976*
  Gives instructions for upgrading custom resource models from IBM Tivoli Monitoring V5.1.2 to IBM Tivoli Monitoring V6.2.
• IBM Tivoli Universal Agent User’s Guide, SC32-9459
  Introduces you to the IBM Tivoli Universal Agent, an agent of IBM Tivoli Monitoring. The IBM Tivoli Universal Agent enables you to use the monitoring and automation capabilities of IBM Tivoli Monitoring to monitor any type of data you collect.

• IBM Tivoli Universal Agent API and Command Programming Reference Guide, SC32-9461
  Explains the procedures for implementing the IBM Tivoli Universal Agent APIs and provides descriptions, syntax, and return status codes for the API calls and command-line interface commands.

• Agent Builder User’s Guide, SC32-1921
  Explains how to use the Agent Builder for creating monitoring agents and their installation packages, and for adding functions to existing agents.

• Fix Pack Readme and Documentation Addendum
  Describes the installation process for a fix pack and provides updated information on problems and workarounds associated with the fix pack. A new version of this document is created for each fix pack.

Related publications

You can find useful information about the OMEGAMON XE monitoring agents in the IBM Tivoli Monitoring and OMEGAMON XE Information Center at the following Web address: [http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1/](http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1/)

This set of documents include the following items, which are related to configuration of the OMEGAMON II for SMS component, which is optional in an Tivoli OMEGAMON XE for Storage on z/OS monitoring environment.

• OMEGAMON II for SMS Configuration and Customization Guide
• OMEGAMON II for SMS User’s Guide
• OMEGAMON II for SMS Administrator’s Guide
• OMEGAMON II for SMS Tuning Guide

Other sources of documentation

You can also obtain technical documentation about IBM Tivoli Monitoring and OMEGAMON XE products from the following sources:

• IBM Tivoli Open Process Automation Library (OPAL)
  OPAL is an online catalog that contains integration documentation and other downloadable product extensions. This library is updated daily.

• IBM Tivoli Distributed Monitoring and Application Management wiki
  The IBM Tivoli Distributed Monitoring and Application Management wiki is a source of best practices, white papers, discussion forums, and more. The wiki includes integration documentation as well as downloadable product extensions.

• IBM Redbooks
  IBM Redbooks, Redpapers, and Redbooks Technotes provide information about products from platform and solution perspectives.

• Technotes
  Technotes provide the latest information about known product limitations and workarounds. You can find Technotes through the IBM Software Support Web site at [http://www.ibm.com/software/support](http://www.ibm.com/software/support)
Support information

If you have a problem with your IBM software, you want to resolve it quickly. This section describes the following options for obtaining support for IBM software products:

- Using IBM Support Assistant
- Obtaining fixes
- Obtaining PTFs (Program Temporary Fixes) on page 226
- Receiving weekly support updates on page 226
- Contacting IBM Software Support on page 227

Using IBM Support Assistant

The IBM Support Assistant is a free, standalone application that you can install on any workstation. You can then enhance the application by installing product-specific plug-in modules for the IBM products you use.

The IBM Support Assistant saves you time searching product, support, and educational resources. The IBM Support Assistant helps you gather support information when you need to open a problem management record (PMR), which you can then use to track the problem.

The product-specific plug-in modules provide the following resources:

- Support links
- Education links
- Ability to submit problem management reports


Install and set up the IBM Support Assistant as follows:

2. Unzip or untar the downloaded file.
3. Run the installation file and respond to the prompts from the installer.
4. Launch the IBM Support Assistant. For example, on Windows XP click IBM Support Assistant in the following menu path: Start > All Programs > IBM Support Assistant. The Welcome page is displayed.
5. Select the Updater hyperlink to access the Updater page.
6. Access the Upgrades tab and the IBM Support Assistant tab to select the product-specific plug-in modules that you want to install.

If you cannot find the solution to your problem in the IBM Support Assistant, you can also check the following Internet resources for information that might help you resolve your problem:

- Forums and news groups
- Google.com

Obtaining fixes

A product fix might be available to resolve your problem. To determine what fixes are available for your IBM software product, follow these steps:

2. Select Tivoli in the Select a brand and/or product drop-down list to access the Select a product drop-down list.

3. Select IBM Tivoli OMEGAMON XE for Storage on z/OS in the Select a product drop-down list.

4. Click the Go arrow that is located to the right of the drop-down list. The product support Web page is displayed, including the blue IBM Tivoli OMEGAMON XE for Storage on z/OS support list box on the right.

Note: The links in this list box go to dedicated Web pages for the product regarding topics such as downloads and troubleshooting. In many cases, using these links leads you to product-specific information more quickly than entering search terms.

5. To obtain information on APARs, perform the following steps:
   a. Click Troubleshoot in the IBM Tivoli OMEGAMON XE for Storage on z/OS support list box to access the Troubleshoot support page.
   b. Click APARs in the Browse by document type area to access a list of APARs, with the most recent APARs first.
   c. Enter search terms to find specific types of APARs, as needed.

6. To obtain information on fixes, fix packs, and other service updates for IBM Tivoli OMEGAMON XE for Storage on z/OS, perform the following steps:
   a. Click Download in the IBM Tivoli OMEGAMON XE for Storage on z/OS support list box to access the Download support page.
   b. Click the Recommended fixes link to access the Recommended Maintenance Service Levels page. Information for IBM Tivoli OMEGAMON XE for Storage on z/OS is provided in several places on this page.

For more information about the types of fixes that are available, see the IBM Software Support Handbook at [http://techsupport.services.ibm.com/guides/handbook.html](http://techsupport.services.ibm.com/guides/handbook.html)

**Obtaining PTFs (Program Temporary Fixes)**

The following steps describe how to identify and obtain required maintenance, known as PTFs (Program Temporary Fixes):


2. Find relevant PSP Buckets. Search for PSP Buckets that have the Tivoli OMEGAMON XE for Storage on z/OS, V4.2.0 prefix: OMXES4200.

3. Consult each PSP Bucket to learn what PTFs are required.


**Receiving weekly support updates**

To receive weekly e-mail notifications about fixes and other software support news, follow these steps:


2. Click My support in the far upper-right corner of the page under Personalized support.

3. If you have already registered for My support, sign in and skip to the next step. If you have not registered, click register now. Complete the registration form using your e-mail address as your IBM ID and click Submit.

4. Click Edit profile.

5. In the Products list, select Software. A second list is displayed.

6. In the second list, select a product segment, for example, Systems management. A third list is displayed.
7. In the third list, select a product sub-segment, for example, **Application Performance & Availability**.
   A list of applicable products is displayed.
8. Select the products for which you want to receive updates.
9. Click **Add products**.
10. After selecting all products that are of interest to you, click **Subscribe to email** on the **Edit profile** tab.
11. Select **Please send these documents by weekly email**.
12. Update your e-mail address as needed.
13. In the **Documents** list, select **Software**.
14. Select the types of documents that you want to receive information about.
15. Click **Update**.

If you experience problems with the **My support** feature, you can obtain help in one of the following ways:

**Online**
- Send an e-mail message to erchelp@ca.ibm.com, describing your problem.

**By phone**
- Call 1-800-IBM-4YOU (1-800-426-4968).

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**Contacting IBM Software Support**

IBM Software Support provides assistance with product defects.

Before contacting IBM Software Support, your company must have an active IBM software maintenance contract, and you must be authorized to submit problems to IBM. The type of software maintenance contract that you need depends on the type of product you have:

- For IBM distributed software products (including, but not limited to, Tivoli, Lotus®, and Rational® products, as well as DB2 and WebSphere products that run on Windows, or UNIX operating systems), enroll in Passport Advantage® in one of the following ways:

  **Online**

  **By phone**
  - For the phone number to call in your country, go to the IBM Software Support Web site at [http://techsupport.services.ibm.com/guides/contacts.html](http://techsupport.services.ibm.com/guides/contacts.html) and click the name of your geographic region.

- For customers with **Subscription and Support (S & S) contracts**, go to the Software Service Request Web site at [https://techsupport.services.ibm.com/ssr/login](https://techsupport.services.ibm.com/ssr/login).


- For IBM **eServer™** software products (including, but not limited to, DB2 and WebSphere products that run in zSeries, pSeries, and iSeries environments), you can purchase a software maintenance agreement by working directly with an IBM sales representative or an IBM Business Partner. For more information about support for eServer software products, go to the IBM Technical Support Advantage Web site at [http://www.ibm.com/servers/reserver/techsupport.html](http://www.ibm.com/servers/reserver/techsupport.html).

If you are not sure what type of software maintenance contract you need, call 1-800-IBMSERV (1-800-426-7378) in the United States. From other countries, go to the contacts page of the IBM **Software Support Handbook** on the Web at [http://techsupport.services.ibm.com/guides/contacts.html](http://techsupport.services.ibm.com/guides/contacts.html) and click the name of your geographic region for phone numbers of people who provide support for your location.
To contact IBM Software support, follow these steps:

1. **Determining the business impact**
2. **Describing problems and gathering information**
3. **Submitting problems**

**Determining the business impact**

When you report a problem to IBM, you are asked to supply a severity level. Therefore, you need to understand and assess the business impact of the problem that you are reporting. Use the following criteria:

**Severity 1**

The problem has a *critical* business impact. You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.

**Severity 2**

The problem has a *significant* business impact. The program is usable, but it is severely limited.

**Severity 3**

The problem has *some* business impact. The program is usable, but less significant features (not critical to operations) are unavailable.

**Severity 4**

The problem has *minimal* business impact. The problem causes little impact on operations, or a reasonable circumvention to the problem was implemented.

**Describing problems and gathering information**

When describing a problem to IBM, be as specific as possible. Include all relevant background information so that IBM Software Support specialists can help you solve the problem efficiently. To save time, know the answers to these questions:

- What software versions were you running when the problem occurred?
- Do you have logs, traces, and messages that are related to the problem symptoms? IBM Software Support is likely to ask for this information.
- Can you recreate the problem? If so, what steps were performed to re-create the problem?
- Did you make any changes to the system? For example, did you make changes to the hardware, operating system, networking software, and so on.
- Are you currently using a workaround for the problem? If so, be prepared to explain the workaround when you report the problem.

**Submitting problems**

You can submit your problem to IBM Software Support in one of two ways:

**Online**

Click **Submit and track problems** on the IBM Software Support site at [http://www.ibm.com/software/support/probsub.html](http://www.ibm.com/software/support/probsub.html). Type your information into the appropriate problem submission form.

**By phone**

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