

IBM Tivoli Composite Application Manager Agent for  
WebSphere DataPower Appliance  
Version 7.1 Fix Pack 1

*Reference*

**IBM**



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**Note**

Before using this information and the product it supports, read the information in "Notices" on page 219.

This edition applies to version 7.1 Fix Pack 1 of IBM Tivoli Composite Application Manager Agent for WebSphere DataPower Appliance (product number 5724-I45) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Chapter 1. Workspaces reference

A workspace is the working area of the Tivoli® Enterprise Portal application window. The Navigator tree contains a list of the workspaces provided by the agent.

### About workspaces

Use the Navigator tree to select the workspace you want to see. As part of the application window, the status bar shows the Tivoli Enterprise Portal Server name and port number to which the displayed information applies and the ID of the current user.

When you select an item in the Navigator tree, a default workspace is displayed. When you right-click a Navigator item, a menu that includes a Workspace item is displayed. The Workspace item contains a list of workspaces for that Navigator item. Each workspace has at least one view. Some views have links to other workspaces. You can also use the Workspace Gallery tool as described in the *Tivoli Enterprise Portal User's Guide* to open workspaces.

The workspaces in the Navigator are displayed in a Physical view that shows your enterprise as a physical mapping or a dynamically populated logical view that is agent-specific. You can also create a Logical view. The Physical view is the default view.

This monitoring agent provides predefined workspaces. You cannot modify or delete the predefined workspaces, but you can create new workspaces by editing them and saving the changes with a different name.

The IBM® Tivoli Composite Application Manager Agent for WebSphere® DataPower® Appliance provides various default workspaces. These workspaces are displayed in the Navigator tree under the following nodes and subnodes for this monitoring agent:

#### **DataPower Monitoring Agent (BN node)**

Corresponds to a DataPower Monitoring Agent instance and contains agent instance-level workspaces.

#### **DataPower Appliances (DPS subnode)**

DataPower Appliances

#### **DataPower XC10 Appliances (DPC subnode)**

DataPower XC10 Appliances

When multiple instances of the monitoring agent are defined on a system, the top-level node becomes DataPower Monitoring Agent. The DataPower Monitoring Agent workspace is undefined at this node. A node for each instance is created called *Instance:Hostname:BN*. A workspace that is called *Instance:Hostname:BN* is associated with the instance node. This workspace is comparable to the DataPower Monitoring Agent workspace.

Workspace views can be any combination of query-based views, event views, and special purpose views.

### Additional information about workspaces

For more information about creating, customizing, and working with workspaces, see "Using workspaces" in the *Tivoli Enterprise Portal User's Guide*.

For a list of the predefined workspaces for this monitoring agent and a description of each workspace, see Predefined workspaces and the information about each individual workspace.

Some attribute groups for this monitoring agent might not be represented in the predefined workspaces or views for this agent. For a full list of the attribute groups, see “Attribute groups for the monitoring agent” on page 21.

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## Predefined workspaces

The DataPower agent provides predefined workspaces, which are organized by Navigator item.

Agent-level navigator items

- DataPower Monitoring Agent Navigator item
  - DataPower Monitoring Agent workspace
  - Health Console workspace
  - XC10 Health Console workspace
- DataPower Appliances Nodes Navigator item
  - DataPower Appliances Nodes workspace
  - DataPower Appliances Nodes workspace
- DataPower XC10 Appliances Nodes Navigator item
  - DataPower XC10 Appliances Nodes workspace
  - DataPower XC10 Appliances Nodes workspace

DataPower Appliances (DPS) subnode

- DataPower Appliances Navigator item
  - DataPower Appliances workspace
  - Agent Status workspace
  - Performance Object Status workspace
- DataPower Events Navigator item
  - DataPower Events workspace
  - DataPower Events workspace
- HTTP Connection Navigator item
  - HTTP Connection workspace
  - HTTP Connection Statistics workspace
  - HTTP Connection Statistics Detail workspace
  - HTTP Transaction Statistics workspace
  - HTTP Transaction Statistics Detail workspace
- MQ Connection Navigator item
  - MQ Connection Status workspace
- Network Navigator item
  - Ethernet Interfaces Status workspace
  - Network workspace
  - Receive Throughput workspace
  - Receive Throughput Detail workspace
  - TCP Port Status workspace
  - Transmit Throughput workspace
  - Transmit Throughput Detail workspace
- SQL Connection Navigator item
  - SQL Connection Status workspace
- System Navigator item

- Domain Status workspace
- Log Target Status workspace
- Log Target Status by Domain workspace
- Object and Service Status workspace
- Object and Service Status by Domain workspace
- System workspace
- System Information workspace
- System Log Navigator item
  - Latency Detail workspace
  - Latency Log workspace
  - System Log workspace
- Utilization Navigator item
  - Component System Usage Detail workspace
  - CPU Usage workspace
  - Domains Memory Status workspace
  - Domains Memory Status by Domain workspace
  - Filesystem Status workspace
  - Memory Usage workspace
  - Services Memory Status workspace
  - Services Memory Status by Domain workspace
  - Services Memory Status by Service workspace
  - System Load workspace
  - Utilization workspace
  - Utilization Summary workspace
- Web Service Navigator item
  - Web Service workspace
  - WSM Agent Status workspace

#### DataPower XC10 Appliances (DPC) subnode

- DataPower XC10 Appliances Navigator item
  - DataPower XC10 Appliances workspace
  - Performance Object Status workspace
- XC10 Statistics Navigator item
  - XC10 Grid Statistics workspace
  - XC10 Grid Statistics Details workspace
  - XC10 Map Statistics workspace
  - XC10 Map Statistics Details workspace
- XC10 System Navigator item
  - XC10 System workspace
- XC10 Utilization Navigator item
  - XC10 CPU Utilization workspace
  - XC10 Memory Utilization workspace

---

## Workspace descriptions

Each workspace description provides information about the workspace such as the purpose and a list of views in the workspace.

Workspaces are listed under Navigator items. When the agent has subnodes, the Navigator items are listed under the subnode.

## DataPower Monitoring Agent Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

### DataPower Monitoring Agent workspace

The Health Console workspace provides resource usage information about the monitored DataPower appliances in the whole IBM Tivoli Monitoring environment. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

#### System Usage - Top 5

This view displays the five appliances that have the largest system load, and their system load as a percentage.

#### CPU Usage - Top 5

This view displays the five appliances that have the highest CPU usage, and their CPU usage as a percentage.

#### Memory Usage - Top 5

This view displays the five appliances that have the highest memory usage, and their memory usage as a percentage.

### Health Console workspace

The Health Console workspace provides resource usage information about the monitored DataPower appliances in the whole IBM Tivoli Monitoring environment. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

#### System Usage - Top 5

This view displays the five appliances that have the largest system load, and their system load as a percentage.

#### CPU Usage - Top 5

This view displays the five appliances that have the highest CPU usage, and their CPU usage as a percentage.

#### Memory Usage - Top 5

This view displays the five appliances that have the highest memory usage, and their memory usage as a percentage.

### XC10 Health Console workspace

The XC10 Health Console workspace provides resource usage information about the monitored XC10 DataPower appliances in the whole IBM Tivoli Monitoring environment. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

#### Grid Average Throughput - Top 5

Provides TOP 5 average throughput of grids.

#### CPU Usage - Top 5

Provides TOP 5 CPU Usage over last ten minutes.

#### Memory Usage - Top 5

Provides TOP 5 memory usage percentage.

## DataPower Appliances Nodes Navigator item

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

### DataPower Appliances Nodes workspace

The DataPower Appliances Nodes workspace provides an overview of all the monitored DataPower appliances in the IBM Tivoli Monitoring environment.

This workspace contains the following view:

#### **DataPower Appliances Nodes**

This view displays all the monitored DataPower appliances in the IBM Tivoli Monitoring environment. Information provided includes the managed system name of the subnodes, the subnode type, name of the resource, and other information.

#### **DataPower Appliances Nodes workspace**

The DataPower Appliances Nodes workspace provides an overview of all the monitored DataPower appliances in the IBM Tivoli Monitoring environment.

This workspace contains the following view:

#### **DataPower Appliances Nodes**

This view displays all the monitored DataPower appliances in the IBM Tivoli Monitoring environment. Information provided includes the managed system name of the subnodes, the subnode type, name of the resource, and other information.

## **DataPower XC10 Appliances Nodes Navigator item**

The workspace descriptions are organized by the Navigator item to which the workspaces are relevant.

#### **DataPower XC10 Appliances Nodes workspace**

The DataPower XC10 Appliances Nodes workspace provides an overview of all the monitored DataPower XC10 appliances in the IBM Tivoli Monitoring environment.

This workspace contains the following view:

#### **DataPower XC10 Appliances Nodes**

This view displays all the monitored DataPower XC10 appliances in the IBM Tivoli Monitoring environment. Information provided includes the managed system name of the subnodes, the subnode type, name of the resource, and other information.

#### **DataPower XC10 Appliances Nodes workspace**

The DataPower XC10 Appliances Nodes workspace provides an overview of all the monitored DataPower XC10 appliances in the IBM Tivoli Monitoring environment.

This workspace contains the following view:

#### **DataPower XC10 Appliances Nodes**

This view displays all the monitored DataPower XC10 appliances in the IBM Tivoli Monitoring environment. Information provided includes the managed system name of the subnodes, the subnode type, name of the resource, and other information.

## **DataPower Appliances subnode**

The predefined workspace descriptions for the subnode are organized by the Navigator item to which the workspaces are relevant.

## **DataPower Appliances Navigator item**

#### **DataPower Appliances workspace**

The DataPower Appliances workspace provides an overview of the monitored DataPower appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

#### **HTTP Mean Transaction Times - Top 10**

This view provides information about the 10 services that have had the largest HTTP Mean transaction times in the last 10 minutes.

#### **Services Memory Status - Top 10**

This view provides information about the 10 services that have the largest memory usage.

#### **System Load**

This view displays the system loads of the appliance.

#### **CPU Usage**

This view displays the CPU usage in the last 10 minutes of the appliance.

### **Memory Usage**

This view displays the memory usage of the appliance.

### **Agent Status workspace**

The Agent Status workspace provides information about the agent instance. This information includes the communication status of the instance with the monitored DataPower appliances.

This workspace contains the following view:

#### **Agent Status**

This view displays a table view of information about the agent instance. This information includes the communication status of the instance with the monitored DataPower appliances.

### **Performance Object Status workspace**

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

This workspace contains the following view:

#### **Performance Object Status**

The Performance Object Status workspace displays the overall health of the agent instance.

## **DataPower Events Navigator item**

### **DataPower Events workspace**

This is a navigator item.

This workspace contains the following view:

#### **The navigator item**

Contains the DataPower Events workspace.

### **DataPower Events workspace**

The DataPower Events workspace provides information about the events that occur on the monitored DataPower appliance.

This workspace contains the following views:

#### **DataPower Situation Event Console**

This view displays the situation events that occur on the monitored DataPower appliance. The information provided includes the severity of the situation event, the name of the situation, its status, its impact, and so on.

#### **DataPower Events**

This view displays the events that occur on the monitored DataPower appliance. The information provided includes the time when the events occur, the event type, event object name, event severity, and so on.

## **HTTP Connection Navigator item**

### **HTTP Connection workspace**

This is a navigator item.

This workspace contains the following views:

#### **HTTP Connection Requests - Top 10**

Provides TOP 10 HTTP connection statistics for all XML managers on the system. Data query from table HTTP Connections and order by request ten minutes condition.

#### **HTTP Connection Statistics**

Use the HTTP Connections attributes to obtain information about HTTP connection statistics for all XML managers on the monitored DataPower appliance.

## HTTP Connection Statistics workspace

The HTTP Connection Statistics workspace provides information about the HTTP connection statistics for all XML managers on the monitored DataPower appliance. The data that is displayed in this workspace is collected from the default domain only. To view detailed information about the HTTP connection statistics of a particular XML manager, right-click the row that corresponds to the XML manager in the HTTP Connection Statistics view and click [Link to HTTP Connection Statistics Detail](#).

This workspace contains the following views:

### HTTP Connection Requests - Top 10

This view displays the 10 XML managers that have the largest number of HTTP connection requests in the last 10 minutes and their numbers of HTTP connection requests.

### HTTP Connection Statistics

The view provides information about the HTTP connection statistics for all XML managers on the monitored DataPower appliance.

## HTTP Connection Statistics Detail workspace

The HTTP Connection Statistics Detail workspace provides statistics of HTTP connections for one XML manager on the monitored DataPower appliance. The name of the XML manager is displayed at the bottom of the workspace.

This workspace contains the following views:

### HTTP Connection Statistics - 10 Minutes

This view provides HTTP connection statistics for one XML manager on the monitored DataPower appliance over the last 10 minutes. It displays in a bar chart, the number of HTTP connection requests in the last 10 minutes, the number of HTTP connections that are reused in the last 10 minutes, the number of connections that are created in the last 10 minutes, the number of connections that are returned in the last 10 minutes, and so on.

### HTTP Connection Statistics - 1 Minute

This view displays, in a line chart, the trend of HTTP connection statistics for an XML manager on the monitored DataPower appliance. Information about HTTP connection statistics for the XML manager is collected at 1-minute intervals. When you open the HTTP Connection Statistics Detail workspace, six data points, which represent the number of HTTP connection requests, the number of HTTP connections that are reused, the number of HTTP connections that are created, the number of HTTP connections that are returned, the number of HTTP connections that are offered, and the number of HTTP connections that are destroyed respectively in the latest sampling interval, are drawn on the line chart. These data points are drawn every minute and then data points of the same type are connected by straight line segments to visualize the trend of HTTP connection statistics over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.

## HTTP Transaction Statistics workspace

The HTTP Transaction Statistics workspace provides information about the HTTP transaction rates and HTTP mean transaction times of all services on the monitored DataPower appliance. The data that is displayed in this workspace is collected from the default domain only. To view detailed information about the HTTP transaction statistics of one service, right-click the row that corresponds to the service in the HTTP Mean Transaction Times view and click [Link to HTTP Transaction Statistics Detail](#).

This workspace contains the following views:

### HTTP Transaction Rate

This view provides information about the HTTP transaction rate of the services on the monitored DataPower appliance. The information provided includes the HTTP transaction rates in the last 10 seconds, last minute, last 10 minutes, last hour, and last day.

### HTTP Mean Transaction Times

This view provides information about the HTTP mean transaction times of the services on

the monitored DataPower appliance. The information provided includes the HTTP mean transaction times in the last 10 seconds, last minute, last 10 minutes, last hour, and last day.

### **HTTP Transaction Statistics Detail workspace**

The HTTP Transaction Statistics Detail workspace provides the HTTP transaction rate and HTTP mean transaction times for one service on the monitored DataPower appliance.

This workspace contains the following views:

#### **HTTP Transaction Rate Detail**

This view displays, in a line chart, the trend of HTTP transaction rate for a monitored DataPower appliance. Information about HTTP transaction rate for the monitored DataPower appliance is collected at 1-minute intervals. When you open the HTTP Transaction Statistics Detail workspace, five data points, which represent the HTTP transaction rate in the last 10 seconds, the HTTP transaction rate in the last minute, the HTTP transaction rate in the last 10 minutes, the HTTP transaction rate in the last hour, and the HTTP transaction rate in the last day, are drawn on the line chart. These data points are drawn every minute and then data points of the same type are connected by straight line segments to visualize the trend of HTTP transaction rate over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.

#### **HTTP Mean Transaction Times Detail**

This view displays, in a line chart, the trend of HTTP mean transaction times for a monitored DataPower appliance. Information about HTTP mean transaction times for the monitored DataPower appliance is collected at 1-minute intervals. When you open the HTTP Transaction Statistics Detail workspace, five data points, which represent the HTTP mean transaction times in the last 10 seconds, the HTTP mean transaction times in the last minute, the HTTP mean transaction times in the last 10 minutes, the HTTP mean transaction times in the last hour, and the HTTP mean transaction times in the last day, are drawn on the line chart. These data points are drawn every minute and then data points of the same type are connected by straight line segments to visualize the trend of HTTP mean transaction times over a period of time. The longest period of time that the line chart can visualize the trend for is 1 hour.

## **MQ Connection Navigator item**

### **MQ Connection Status workspace**

The MQ Connection Status workspace provides information about the MQ connection of the appliance.

This workspace contains the following views:

#### **MQ Back-End Active Connections - Top 10**

This view provides a chart for the MQ manager with the largest Back-End Active Connections.

#### **MQ Connection Status**

This view provides information about MQ connections on the appliance. The view includes the queue manager name, domain name, Back-End Active Connections, Front-End active connections, total active connection, and so on.

## **Network Navigator item**

### **Ethernet Interfaces Status workspace**

The Ethernet Interfaces Status workspace provides the device-specific status of all Ethernet network interfaces on the monitored DataPower appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

#### **Linked Ethernet Interfaces Status**

This view displays, in a bar chart, the traffic statistics for all linked Ethernet network interfaces. The information provided includes the number of packets received, the

number of reception errors, the number of received packets that are dropped, the number of transmitted packets, the number of transmission errors, and the number of transmitted packets that are dropped.

#### **Ethernet Interfaces Status**

This view provides the status of all Ethernet network interfaces on the monitored DataPower appliance. The information provided includes the interface name, the IP address, the MAC address, its status, and so on.

#### **Network workspace**

This is a navigator item.

This workspace contains the following view:

##### **The navigator item**

Contains TCP Port Status workspace, Ethernet Interfaces Status workspace, Transmit Throughput workspace, Transmit Throughput Detail workspace, Receive Throughput workspace, and Receive Throughput Detail workspace.

#### **Receive Throughput workspace**

The Receive Throughput workspace provides information about the receive throughput, in kilobytes per second, for all network interfaces on the monitored DataPower appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance. To view detailed information about the receive throughput of one network interface, right-click the row that corresponds to the network interface and click Link to > Receive Throughput Detail.

This workspace contains the following views:

##### **Receive Throughput - Last 10 Minutes**

This view displays, in a bar chart, the receive throughput for all network interfaces on the monitored DataPower appliance over the last 10 minutes.

##### **Receive Throughput**

This view provides information about receive throughput for all network interfaces on the monitored DataPower appliance. The information provided includes the interface name, the interface type, the receive throughput in the last 10 seconds, the receive throughput in the last minute, and so on.

#### **Receive Throughput Detail workspace**

The Receive Throughput Detail workspace provides information about the receive throughput, in kilobytes per second, for one network interface on the monitored DataPower appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

##### **Receive Throughput Detail**

This view displays, in a bar chart, the receive throughput of a network interface in the last 10 seconds, in the last minute, in the last 10 minutes, in the last hour, and in the last day. The information is provided in kilobytes per second.

##### **Receive Throughput Detail - Last 1 Minute**

This view displays, in a line chart, the trend of receive throughput for a network interface. Information about receive throughput for the network interface is collected at 1-minute intervals. When you open the Receive Throughput Detail workspace, a data point that represents the receive throughput in the latest sampling interval is drawn on the line chart. These data points are drawn every minute and then they are connected by straight line segments to visualize the trend of receive throughput over a period of time.

The longest period of time that the line chart can visualize the trend for is 20 minutes.

#### **TCP Port Status workspace**

The TCP Port Status workspace provides information about the status of all TCP ports on the monitored DataPower appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

### **TCP Port Summary**

This view displays in a bar chart the numbers of TCP connections that are in different status.

### **TCP Port Status**

This view provides information about the status of all TCP ports on the appliance, both those listening for incoming connections, and active connections. For listening connections that are related to router configuration objects, it indicates what object that listener is associated with.

### **Transmit Throughput workspace**

The Transmit Throughput workspace provides information about the transmit throughput for all network interfaces on the monitored DataPower appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance. To view detailed information about the transmit throughput of a network interface, right-click the row that corresponds to the network interface and click [Link to > Transmit Throughput Detail](#).

This workspace contains the following views:

#### **Transmit Throughput - Last 10 Minutes**

This view displays in a bar chart, the transmit throughput for all network interfaces on the monitored DataPower appliance over the last 10 minutes. The information is provided in kilobytes per second.

#### **Transmit Throughput**

This view provides information about transmit throughput for all network interfaces on the monitored DataPower appliance. The information provided includes the interface name, interface type, transmit throughput in the last 10 seconds, transmit throughput in the last minute, transmit throughput in the last 10 minutes, and so on.

### **Transmit Throughput Detail workspace**

The Transmit Throughput Detail workspace provides information about the transmit throughput, in kilobytes per second, for one network interface on the monitored DataPower appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

#### **Transmit Throughput Detail**

This view displays, in a bar chart, the transmit throughput for a network interface in the last 10 seconds, last minute, last 10 minutes, last hour, and last day.

#### **Transmit Throughput Detail - Last 1 Minute**

This view displays, in a line chart, the trend of transmit throughput for a network interface. Information about transmit throughput for the network interface is collected at 1-minute intervals. When you open the Transmit Throughput Detail workspace, a data point that represents the transmit throughput in the latest sampling interval is drawn on the line chart. These data points are drawn every minute and then they are connected by straight line segments to visualize the trend of transmit throughput over a period of time. The longest period of time that the line chart can visualize the trend for is 20 minutes.

## **SQL Connection Navigator item**

### **SQL Connection Status workspace**

The SQL Connection Status workspace provides information about the SQL connection of the appliance.

This workspace contains the following views:

#### **SQL Active Connections - Top 10**

This view provides a chart for the SQL data sources with the largest number of active connections.

## **SQL Connection Status**

The view provides information about SQL connections on the appliance. The information that is provided includes the SQL Data Source, domain name, the Active Connections, Idle connection, and so on.

## **System Navigator item**

### **Domain Status workspace**

The Domain Status workspace provides information about the status of application domains. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

#### **Domains Memory Status**

This view provides the memory usage of each domain in a different time span.

#### **Domain Status**

This view provides the status of application domains on the monitored DataPower appliance. Information provided includes the name of the domain, whether the domain contains unsaved changes, whether the XML File Capture utility is enabled, whether the debug logging, service probe and diagnostic tracing is enabled, a list of commands that are currently running, and the quiesce state of the domain.

### **Log Target Status workspace**

The Log Target Status workspace provides status information of log targets of the system. The data that is displayed in this workspace is collected from the default domain only.

This workspace contains the following views:

#### **Message Log**

Provides message log of the system.

#### **Log Target Status**

Provides information of the log targets of the system.

### **Log Target Status by Domain workspace**

The Log Target Status by Domain workspace provides status information for the log targets of the system. The data that is displayed in this workspace is collected from the domain from which the workspace was linked to.

This workspace contains the following views:

#### **Message Log**

Provides message log information about the system.

#### **Log Target Status**

Provides information about the log targets of the system.

### **Object and Service Status workspace**

The Object and Service Status workspace provides information about the status of configuration objects and active services. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance. The data that is displayed in this workspace is collected from the default domain only.

This workspace contains the following views:

#### **Problematical Object Status**

Provides problematical object status information for all domain.

#### **Active Services**

This view provides information about the active services on the monitored DataPower appliance. Information provided includes the service name, the service type, the local IP, and the local port.

### **Object and Service Status by Domain workspace**

The Object and Service Status workspace provides information about the status of configuration objects and active services. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance. The data that is displayed in this workspace is collected from the domain from which the workspace was linked to.

This workspace contains the following views:

**Object Status**

This view provides the status of configuration objects on the monitored DataPower appliance. Information provided includes the service name, the service type, its operational state, administration state, configuration state and other information.

**Active Services**

This view provides information about the active services on the monitored DataPower appliance. Information provided includes the service name, the service type, the local IP, and the local port.

**System workspace**

Status of all domains on the monitored DataPower appliance.

This workspace contains the following views:

**Domains Memory Status**

Use the DomainsMemoryStatus attributes to obtain details of memory usage all domains.

**Domain Status**

Information about the status of the domain. The data includes whether there are unsaved changes and whether any debugging option has been enabled.

**System Information workspace**

The System Information workspace provides information about the system uptime of the monitored DataPower appliance and the firmware that it uses.

This workspace contains the following views:

**System Uptime**

This view provides information about the amount of time that the system has been up and running since the last restart or reloads.

**Firmware Information**

This view provides information about the primary and secondary firmware that the DataPower appliance uses.

**Firmware Detail**

This view provides detailed information about the firmware that is installed on the monitored DataPower appliance. Information provided includes the machine type, the model type, the version number, the watchdog DPOS, the installed DPOS, and other information.

**System Log Navigator item**

**Latency Detail workspace**

Display latency detail for a particular transaction.

This workspace contains the following views:

**Latency Detail**

Display latency detail for a particular transaction in table view.

**Latency Aggregate**

Display aggregated latency for a particular transaction.

**Latency Detail**

Display latency detail for a particular transaction in bar chart view.

**Latency Log workspace**

Display messages of latency category in the offloaded DataPower system logs.

This workspace contains the following views:

**Top 10 Latency**

Display top 10 transactions with the longest latency within the latest log messages received in cache. By default the latest 100 messages will be stored in cache.

**Latency Log**

Display messages of latency category in the offloaded DataPower system logs.

**System Log workspace**

Display messages in the offloaded DataPower system logs. Each row provides links to further

filter messages on Category, Domain, Level, Service Name or Service Type. Messages of Latency category also provide links to the Latency Detail and Latency by Service.

This workspace contains the following views:

**System Log**

Display messages in the system logs.

**Message Log**

Display message logs for the ITM environment.

## Utilization Navigator item

### Component System Usage Detail workspace

The Component System Usage Detail workspace provides information about the system usage of a component and the change trend of component system usage. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

**Component System Usage**

This view provides information about the system usage of the component. Information provided includes the task name, system load, CPU usage, memory usage, and other information.

**Component System Usage Detail**

This view displays, in a line chart, the trend of component system usage of the monitored DataPower appliance. Information about component system usage for the monitored DataPower appliance is collected at 1-minute intervals. When you open the Component System Usage Detail workspace, three data points that represent the system load, CPU usage, and memory usage in the latest sampling interval are drawn on the line chart. These data points are drawn every minute and then data points of the same type are connected by straight line segments to visualize the trend of component system usage over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.

### CPU Usage workspace

The CPU Usage workspace provides information about CPU usage and CPU usage change trend. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

**CPU Usage Detail**

This view displays, in a bar chart, the CPU usage information in the last 10 seconds, in the last minute, in the last 10 minutes, in the last hour, and in the last day.

**CPU Usage - 1 Minute**

This view displays, in a line chart, the trend of CPU usage for a monitored DataPower appliance. Information about CPU usage for the monitored DataPower appliance is collected at 1-minute intervals. When you open the CPU Usage workspace, a data point that represents the CPU usage in the latest sampling interval is drawn on the line chart. These data points are drawn every minute and then they are connected by straight line segments to visualize the trend of CPU usage over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.

### Domains Memory Status workspace

Use the DomainsMemoryStatus attributes to obtain details of memory usage all domains.

This workspace contains the following views:

**Domains Memory Status - Top 10**

Provides TOP 10 the DomainsMemoryStatus attributes to obtain details of memory usage.

**Domains Memory Status**

Use the DomainsMemoryStatus attributes to obtain details of memory usage all domains.

### Domains Memory Status by Domain workspace

Use the DomainsMemoryStatus attributes to obtain details of memory usage by domain.

This workspace contains the following views:

**Domains Memory Status by Domain**

Provides the DomainsMemoryStatus attributes to obtain memory usage by domain.

**Domains Memory Status by Domain Detail**

Provides the DomainsMemoryStatus attributes to obtain details of memory usage by domain.

**Filesystem Status workspace**

The Filesystem Status workspace provides information about the usage of encrypted space, the usage of unencrypted space, the usage of temporary space, and the usage of internal space. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

**Encrypted Space**

This view displays, in a bar chart, the amount of used and free encrypted space, in megabytes.

**Unencrypted Space**

This view displays, in a bar chart, the amount of used and free unencrypted space, in megabytes.

**Temporary Space**

This view displays, in a bar chart, the amount of used and free temporary space, in megabytes.

**Internal Space**

This view displays, in a bar chart, the amount of used and free internal space, in megabytes.

**Memory Usage workspace**

The Memory Usage workspace provides information about memory usage and memory usage change trend. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

**Memory Usage**

This view displays, in a bar chart, the amount of used memory and free memory, in megabytes.

**Memory Usage Detail**

This view displays, in a line chart, the trend of memory usage for a monitored DataPower appliance. Information about memory usage for the monitored DataPower appliance is collected at 5-second intervals. When you open the Memory Usage workspace, five data points, which represent the amount of used memory, the amount of free memory, the amount of requested memory, the amount of XG4 memory, and the amount of hold memory in the latest sampling interval are drawn on the line chart. These data points are drawn every minute and then data points of the same type are connected by straight line segments to visualize the trend of memory usage over a period of time.

The longest period of time that the line chart can visualize the trend for is five minutes.

**Services Memory Status workspace**

Use the ServicesMemoryStatus attributes to obtain details of memory usage all services.

This workspace contains the following views:

**Services Memory Status - Top 10**

Provides TOP 10 the ServicesMemoryStatus attributes to obtain details of memory usage.

**Services Memory Status**

Use the ServicesMemoryStatus attributes to obtain details of memory usage all services.

**Services Memory Status by Domain workspace**

Use the ServicesMemoryStatus attributes to obtain details of memory usage by domain.

This workspace contains the following views:

### **Services Memory Status by Domain - Top 10**

Provides TOP 10 the ServicesMemoryStatus attributes to obtain details of memory usage by domain.

### **Services Memory Status by Domain**

Provides the ServicesMemoryStatus attributes to obtain details of memory usage by domain.

### **Services Memory Status by Service workspace**

Use the ServicesMemoryStatus attributes to obtain details of memory usage by service.

This workspace contains the following views:

#### **Services Memory Status by service**

Provides the ServicesMemoryStatus attributes to obtain details of memory usage by service.

#### **Services Memory Status by domain - Top 10**

Provides TOP 10 the ServicesMemoryStatus attributes to obtain details of memory usage by domain.

### **System Load workspace**

The System Load workspace provides information about the system usage, memory usage, and CPU usage. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

#### **System Usage of All Tasks**

This view provides information about the system usage of all tasks. Information provided includes the task name, its system load, its CPU usage, its memory usage, and other information.

#### **System Load Top 10 Tasks**

This view displays, in a bar chart, the 10 tasks that have the largest system usage load.

#### **CPU Usage Top 10 Tasks**

This view displays, in a bar chart, the 10 tasks that have the largest CPU usage.

#### **Memory Usage Top 10 Tasks**

This view displays, in a bar chart, the 10 tasks that have the largest memory usage.

### **Utilization workspace**

This is a navigator item.

This workspace contains the following views:

#### **Filesystem Status**

The Filesystem Status workspace provides information about the usage of encrypted space, the usage of unencrypted space, the usage of temporary space, and the usage of internal space. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

#### **System Load**

The System Load workspace provides information about the system usage, memory usage, and CPU usage. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

#### **CPU Usage**

The CPU Usage workspace provides information about CPU usage and CPU usage change trend. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

#### **Memory Usage**

The Memory Usage workspace provides information about memory usage and memory usage change trend. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

## Utilization Summary workspace

The Utilization Summary workspace provides information about the file system usage, system usage, CPU usage, and memory usage of the monitored DataPower appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

### Filesystem Usage

This view displays, in a bar chart, the usage of encrypted space, the usage of unencrypted space, the usage of temporary space, and the usage of internal space, in percentage.

### System Usage

This view displays, in a bar chart, the system load, in percentage.

### CPU Usage

This view displays, in a bar chart, the CPU usage in the last 10 minutes, in percentage.

### Memory Usage

This view displays, in a bar chart, the memory usage, in percentage.

## Web Service Navigator item

### Web Service workspace

This is a navigator item.

This workspace contains the following views:

### WSM Agent Status Top 10

Provides TOP 10 the WSMAgentStatus attributes to obtain status of the WSM Agent per application domain.

### WSM Agent Status

Use the WSMAgentStatus attributes to obtain status of the WSM Agent per application domain.

### WSM Agent Status workspace

Use the WSMAgentStatus attributes to obtain status of the WSM Agent per application domain.

This workspace contains the following views:

### WSM Agent Status Top 10

Provides TOP 10 the WSMAgentStatus attributes to obtain status of the WSM Agent per application domain.

### WSM Agent Status

Use the WSMAgentStatus attributes to obtain status of the WSM Agent per application domain.

## DataPower XC10 Appliances subnode

The predefined workspace descriptions for the subnode are organized by the Navigator item to which the workspaces are relevant.

## DataPower XC10 Appliances Navigator item

### DataPower XC10 Appliances workspace

The DataPower XC10 Appliances workspace provides an overview of the monitored DataPower XC10 appliance. Based on the information that this workspace provides, you can recommend changes, set up situations, and verify that changes are improving performance.

This workspace contains the following views:

### Grid Average Throughput - Top 5

This view displays the 5 XC10 appliances that have the highest grid average transaction time.

### Map Used Bytes - Top 5

This view displays the 5 XC10 appliances that have the highest map used kilobytes.

### **CPU Usage - Top 5**

This view displays the 5 XC10 appliances that have the highest CPU usage, and their respective CPU usage as a percentage during the last 10 minutes.

### **Memory Usage - Top 5**

This view displays the 5 XC10 appliances that have the highest memory usage, and their respective memory usage as a percentage.

### **Performance Object Status workspace**

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

This workspace contains the following view:

#### **Performance Object Status**

The Performance Object Status workspace displays the overall health of the agent instance.

## **XC10 Statistics Navigator item**

### **XC10 Grid Statistics workspace**

The XC10 Grid Statistics workspace provides a statistical overview of the monitored DataPower XC10 appliance.

This workspace contains the following views:

#### **Average Throughput of Grids - Top 5**

This view displays, in a bar chart, the top five average transaction time grids of the monitored DataPower XC10 appliance.

#### **Grid Statistics**

This view displays grid statistics of the monitored DataPower XC10 appliance.

### **XC10 Grid Statistics Details workspace**

The XC10 Grid Statistics Details workspace provides a grid overview of the monitored DataPower XC10 appliance.

This workspace contains the following views:

#### **Grid Average Throughput**

This view displays, in a line chart, the trend of average grid throughput for the monitored DataPower XC10 appliance. Information about memory for the monitored DataPower XC10 appliance is collected at 1-minute intervals. When you open the XC10 Memory Utilization workspace, a data point that represents the memory in the latest sampling interval is drawn on the line chart. These data points are drawn every minute and then they are connected by straight line segments to visualize the trend of memory over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.

#### **Grid Transaction Count**

This view displays, in a line chart, the trend of grid transaction count for the monitored DataPower XC10 appliance. Information about memory for the monitored DataPower XC10 appliance is collected at 1-minute intervals. When you open the XC10 Memory Utilization workspace, a data point that represents the memory in the latest sampling interval is drawn on the line chart. These data points are drawn every minute and then they are connected by straight line segments to visualize the trend of memory over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.

#### **Grid Transaction Time**

This view displays, in a line chart, the trend of grid transaction times for the monitored

DataPower XC10 appliance. Information about memory for the monitored DataPower XC10 appliance is collected at 1-minute intervals. When you open the XC10 Memory Utilization workspace, a data point that represents the memory in the latest sampling interval is drawn on the line chart. These data points are drawn every minute and then they are connected by straight line segments to visualize the trend of memory over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.

#### **XC10 Map Statistics workspace**

The XC10 Map Statistics workspace provides a map overview of the monitored DataPower XC10 appliance.

This workspace contains the following views:

##### **Map Used Bytes - Top 5**

This view displays, in a bar chart, the top five map used bytes of the monitored DataPower XC10 appliance.

##### **Map Statistics**

This view displays map statistics of the monitored DataPower XC10 appliance.

#### **XC10 Map Statistics Details workspace**

The XC10 Map Statistics Details workspace provides a map overview of the monitored DataPower XC10 appliance.

This workspace contains the following views:

##### **Retrievals**

This view displays, in a line chart, map total hits and total gets of the monitored DataPower XC10 appliance.

##### **Hit Rate**

This view displays, in a bar chart, the map hit rate of the monitored DataPower XC10 appliance.

##### **Number of Entries**

This view displays, in a line chart, map entries of the monitored DataPower XC10 appliance.

##### **Used Bytes**

This view displays, in a line chart, map used bytes of the monitored DataPower XC10 appliance.

### **XC10 System Navigator item**

#### **XC10 System workspace**

The XC10 System workspace provides an overview of the monitored DataPower XC10 appliance.

This workspace contains the following views:

##### **System Uptime**

This view displays the uptime status of the DataPower XC10 appliance.

##### **Battery Status**

This view displays the battery status of the DataPower XC10 appliance.

##### **Firmware Versions**

This view displays the firmware version status of the DataPower XC10 appliance.

##### **Environmental Sensors**

This view displays the environmental status collected from the sensor of the DataPower XC10 appliance.

### **XC10 Utilization Navigator item**

#### **XC10 CPU Utilization workspace**

The XC10 CPU Utilization workspace provides a CPU utilization overview of the monitored DataPower XC10 appliance.

This workspace contains the following views:

**CPU Usage Detail**

This view displays, in a bar chart, the CPU usage information in the last 10 seconds, in the last minute, in the last 10 minutes, in the last hour, and in the last day.

**CPU Usage - 1 minute**

This view displays, in a line chart, the trend of CPU usage for a monitored DataPower XC10 appliance. Information about CPU usage for the monitored DataPower XC10 appliance is collected at 1-minute intervals. When you open the CPU Usage workspace, a data point that represents the CPU usage in the latest sampling interval is drawn on the line chart. These data points are drawn every minute and then they are connected by straight line segments to visualize the trend of CPU usage over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.

**XC10 Memory Utilization workspace**

The XC10 Memory Utilization workspace provides a Memory utilization overview of the monitored DataPower XC10 appliance.

This workspace contains the following views:

**Memory Status**

This view displays, in a bar chart, the amount of free and used physical memory of the monitored DataPower XC10 appliance.

**Memory Usage**

This view displays, in a circular gauge, the percentage of physical memory used on the monitored DataPower XC10 appliance.

**Memory Status Detail**

This view displays, in a line chart, the trend of memory for the monitored DataPower XC10 appliance. Information about memory for the monitored DataPower XC10 appliance is collected at 1-minute intervals. When you open the XC10 Memory Utilization workspace, a data point that represents the memory in the latest sampling interval is drawn on the line chart. These data points are drawn every minute and then they are connected by straight line segments to visualize the trend of memory over a period of time. The longest period of time that the line chart can visualize the trend for is one hour.



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## Chapter 2. Attributes reference

Attributes are the application properties that are being measured and reported by the IBM Tivoli Composite Application Manager Agent for WebSphere DataPower Appliance.

### About attributes

Attributes are organized into attribute groups. Attributes in an attribute group relate to a single object such as an application, or to a single kind of data such as status information.

Attributes in a group can be used in queries, query-based views, situations, policy workflows, take action definitions, and launch application definitions. Chart or table views and situations are two examples of how attributes in a group can be used:

- Chart or table views

Attributes are displayed in chart and table views. The chart and table views use queries to specify which attribute values to request from a monitoring agent. You use the Properties editor to apply filters and set styles to define the content and appearance of a view based on an existing query.

- Situations

You use attributes to create situations that monitor the state of your operating system, database, or application. A situation describes a condition you want to test. When you start a situation, the values you assign to the situation attributes are compared with the values collected by the DataPower agent and registers an *event* if the condition is met. You are alerted to events by indicator icons that are displayed in the Navigator.

### Additional information about attributes

For more information about using attributes and attribute groups, see the *Tivoli Enterprise Portal User's Guide*.

For a list of the attribute groups, a list of the attributes in each attribute group, and descriptions of the attributes for this monitoring agent, see "Attribute groups for the monitoring agent" and "Attributes in each attribute group" on page 24.

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## Attribute groups for the monitoring agent

The DataPower agent contains the following attribute groups. The table name depends on the maximum table name limits of the target database being used for the Tivoli Data Warehouse. If the maximum name is 30 characters, any warehouse table name longer than 30 characters is shortened to 30 characters.

- Attribute group name: AgentStatus
  - Table name: KBNAGENTST
  - Warehouse table name: KBN\_AGENTSTATUS or KBNAGENTST
- Attribute group name: CPUUsage
  - Table name: KBNCPUUSAG
  - Warehouse table name: KBN\_CPUUSAGE or KBNCPUUSAG
- Attribute group name: DataPower Appliances Nodes
  - Table name: KBNDPSPDS
  - Warehouse table name: KBN\_DATAPOWER\_APPLIANCES\_NODES or KBNDPSPDS
- Attribute group name: DataPower XC10 Appliances Nodes
  - Table name: KBNDPDCDS

- Warehouse table name: KBN\_DATAPOWER\_XC10\_APPLIANCES\_NODES or KBNDPDCDS
- Attribute group name: DomainsMemoryStatus
  - Table name: KBNDMSTAT
  - Warehouse table name: KBN\_DOMAINSMEMORYSTATUS or KBNDMSTAT
- Attribute group name: DomainStatus
  - Table name: KBNDSTATUS
  - Warehouse table name: KBN\_DOMAINSTATUS or KBNDSTATUS
- Attribute group name: DPC Performance Object Status
  - Table name: KBNDPCPOS
  - Warehouse table name: KBN\_DPC\_PERFORMANCE\_OBJECT\_STATUS or KBNDPCPOS
- Attribute group name: DPS Performance Object Status
  - Table name: KBNDPSPOS
  - Warehouse table name: KBN\_DPS\_PERFORMANCE\_OBJECT\_STATUS or KBNDPSPOS
- Attribute group name: EthernetInterface
  - Table name: KBNDPSTAT4
  - Warehouse table name: KBN\_ETHERNETINTERFACE or KBNDPSTAT4
- Attribute group name: FilesystemStatus
  - Table name: KBNFILESYS
  - Warehouse table name: KBN\_FILESYSTEMSTATUS or KBNFILESYS
- Attribute group name: FirmwareStatus
  - Table name: KBNFIRMWA0
  - Warehouse table name: KBN\_FIRMWARESTATUS or KBNFIRMWA0
- Attribute group name: FirmwareVersion
  - Table name: KBNFIRMWAR
  - Warehouse table name: KBN\_FIRMWAREVERSION or KBNFIRMWAR
- Attribute group name: HTTPConnections
  - Table name: KBNHTTPCON
  - Warehouse table name: KBN\_HTTPCONNECTIONS or KBNHTTPCON
- Attribute group name: HTTPMeanTransactionTime2
  - Table name: KBNDPSTAT3
  - Warehouse table name: KBN\_HTTPMEANTRANSACTIONTIME2 or KBNDPSTAT3
- Attribute group name: HTTPTransactions2
  - Table name: KBNDPSTAT0
  - Warehouse table name: KBN\_HTTPTRANSACTIONS2 or KBNDPSTAT0
- Attribute group name: LogNotification
  - Table name: KBNDPLOGNO
  - Warehouse table name: KBN\_LOGNOTIFICATION or KBNDPLOGNO
- Attribute group name: LogTargetStatus
  - Table name: KBNLOGTARG
  - Warehouse table name: KBN\_LOGTARGETSTATUS or KBNLOGTARG
- Attribute group name: MemoryStatus
  - Table name: KBNMEMORYS
  - Warehouse table name: KBN\_MEMORYSTATUS or KBNMEMORYS
- Attribute group name: MQConnections
  - Table name: KBNMQCON

- Warehouse table name: KBN\_MQCONNECTIONS or KBNMQCON
- Attribute group name: NetworkReceiveDataThroughput
  - Table name: KBNDPSTAT6
  - Warehouse table name: KBN\_NETWORKRECEIVEDATATHROUGHPUT or KBNDPSTAT6
- Attribute group name: NetworkTransmitDataThroughput
  - Table name: KBNDPSTAT5
  - Warehouse table name: KBN\_NETWORKTRANSMITDATATHROUGHPUT or KBNDPSTAT5
- Attribute group name: ObjectStatus
  - Table name: KBNDPSTA17
  - Warehouse table name: KBN\_OBJECTSTATUS or KBNDPSTA17
- Attribute group name: Performance Object Status
  - Table name: KBNPOBJST
  - Warehouse table name: KBN\_PERFORMANCE\_OBJECT\_STATUS or KBNPOBJST
- Attribute group name: ServicesMemoryStatus
  - Table name: KBNSMSTAT
  - Warehouse table name: KBN\_SERVICESMEMORYSTATUS or KBNSMSTAT
- Attribute group name: ServicesStatus
  - Table name: KBNDPSTAT2
  - Warehouse table name: KBN\_SERVICESSTATUS or KBNDPSTAT2
- Attribute group name: SQLConnections
  - Table name: KBNSQLCON
  - Warehouse table name: KBN\_SQLCONNECTIONS or KBNSQLCON
- Attribute group name: SystemLog
  - Table name: KBNSYSLOG0
  - Warehouse table name: KBN\_SYSTEMLOG or KBNSYSLOG0
- Attribute group name: SystemUptime
  - Table name: KBNDATETIM
  - Warehouse table name: KBN\_SYSTEMUPTIME or KBNDATETIM
- Attribute group name: SystemUsage
  - Table name: KBNSYSTEMU
  - Warehouse table name: KBN\_SYSTEMUSAGE or KBNSYSTEMU
- Attribute group name: SystemUsageTable
  - Table name: KBNDPSTATU
  - Warehouse table name: KBN\_SYSTEMUSAGETABLE or KBNDPSTATU
- Attribute group name: Take Action Status
  - Table name: KBNTACTST
  - Warehouse table name: KBN\_TAKE\_ACTION\_STATUS or KBNTACTST
- Attribute group name: TCPSummary
  - Table name: KBNTCPSUMM
  - Warehouse table name: KBN\_TCPSUMMARY or KBNTCPSUMM
- Attribute group name: TCPTable
  - Table name: KBNTCPTABL
  - Warehouse table name: KBN\_TCPTABLE or KBNTCPTABL
- Attribute group name: Thread Pool Status
  - Table name: KBNTHPLST

- Warehouse table name: KBN\_THREAD\_POOL\_STATUS or KBNTHPLST
- Attribute group name: WSMAgentStatus
  - Table name: KBNWSMSTA
  - Warehouse table name: KBN\_WSMAGENTSTATUS or KBNWSMSTA
- Attribute group name: XC10 BatteryStatus
  - Table name: KBNDPCBATS
  - Warehouse table name: KBN\_XC10\_BATTERYSTATUS or KBNDPCBATS
- Attribute group name: XC10 CPUUsage
  - Table name: KBNDPCCPU
  - Warehouse table name: KBN\_XC10\_CPUUSAGE or KBNDPCCPU
- Attribute group name: XC10 EnvironmentalSensors
  - Table name: KBNDPCENVS
  - Warehouse table name: KBN\_XC10\_ENVIRONMENTALSENSORS or KBNDPCENVS
- Attribute group name: XC10 FirmwareVersion
  - Table name: KBNDPCFIRM
  - Warehouse table name: KBN\_XC10\_FIRMWAREVERSION or KBNDPCFIRM
- Attribute group name: XC10 GridStatistics
  - Table name: KBNDPCGRID
  - Warehouse table name: KBN\_XC10\_GRIDSTATISTICS or KBNDPCGRID
- Attribute group name: XC10 MapStatistics
  - Table name: KBNDPCMAP
  - Warehouse table name: KBN\_XC10\_MAPSTATISTICS or KBNDPCMAP
- Attribute group name: XC10 MemoryStatus
  - Table name: KBNDPCMEM
  - Warehouse table name: KBN\_XC10\_MEMORYSTATUS or KBNDPCMEM
- Attribute group name: XC10 SystemUptime
  - Table name: KBNDPCUPTM
  - Warehouse table name: KBN\_XC10\_SYSTEMUPTIME or KBNDPCUPTM

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## Attributes in each attribute group

Attributes in each DataPower agent attribute group collect data that the agent uses for monitoring.

The descriptions of the attribute groups contain the following information:

### Historical group

Whether the attribute group is a historical type that you can roll off to a data warehouse.

### Attribute descriptions

Information such as description, type, source, and warehouse name, as applicable, for each attribute in the attribute group.

Some attributes are designated as key attributes. A *key attribute* is an attribute that is used in warehouse aggregation to identify rows of data that represent the same object.

## AgentStatus attribute group

The Agent Status workspace provides information about the agent instance. This information includes the communication status of the instance with the monitored DataPower appliances

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

## Attribute descriptions

The following list contains information about each attribute in the AgentStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Resource Name attribute: This attribute is a key attribute.**

**Description**

Name of the monitored DataPower appliance.

**Type**

String

**Warehouse name**

SUBNODENAME or SUBNODE

**Device attribute**

**Description**

Hostname or IP address of the DataPower appliance.

**Type**

String

**Warehouse name**

DEVICE

**User attribute**

**Description**

User account used to connect to the DataPower appliance.

**Type**

String

**Warehouse name**

USER

**Port attribute**

**Description**

Port of the DataPower appliance that the agent connect to.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

PORT

**Connection Type attribute**

**Description**

Connection type to the DataPower appliance.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are

displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Unknown (0)
- SOAP (1)
- SNMP (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TYPE or CONTYPE

**Connection Status attribute**

**Description**

Connection status to the DataPower appliance.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Up (0)
- Down (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

STATUS or CONSTAT

**Response Code attribute**

**Description**

Response code.

**Type**

Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- n/a (0)
- 200 (200)
- 201 (201)
- 202 (202)
- 203 (203)
- 204 (204)
- 205 (205)
- 206 (206)
- 300 (300)
- 301 (301)
- 302 (302)
- 303 (303)
- 304 (304)
- 305 (305)
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- 615 (615)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
RESPONSECODE or ERRCODE

**Response Message attribute**

**Description**  
Response message.

**Type**  
String

**Warehouse name**  
RESPONSEMSG or ERRMSG

## CPUUsage attribute group

Use the CPUUsage attributes to obtain information about the CPU usage of the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the CPUUsage attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**  
The managed system name of the agent.

**Type**  
String

**Warehouse name**  
NODE

### Timestamp attribute

**Description**  
The local time at the agent when the data was collected.

**Type**  
String  
**Warehouse name**  
TIMESTAMP

**Device Host attribute**

**Description**  
Host name or IP address of the device.

**Type**  
String

**Warehouse name**  
SNMPHOSTCPU or SNMPHOSTCP

**10 sec (%) attribute**

**Description**  
The average CPU usage of the monitored DataPower appliance in the last 10 seconds.

**Type**  
Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENSECONDS

**1 min (%) attribute**

**Description**  
The average CPU usage of the monitored DataPower appliance in the last minute.

**Type**  
Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
ONEMINUTE

**10 min (%) attribute**

**Description**  
The average CPU usage of the monitored DataPower appliance in the last 10 minutes.

**Type**  
Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENMINUTES

**1 hour (%) attribute**

**Description**

The average CPU usage of the monitored DataPower appliance in the last hour.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR

**1 day (%) attribute****Description**

The average CPU usage of the monitored DataPower appliance in the last day.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEDAY

## DataPower Appliances Nodes attribute group

Use the DataPower Appliances Nodes attributes to obtain information about the subnodes.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the DataPower Appliances Nodes attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute****Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Subnode MSN attribute: This attribute is a key attribute.**

**Description**

The Managed System Name of the subnode agent.

**Type**

String

**Warehouse name**

SUBNODE\_MSN or SN\_MSN

### Subnode Affinity attribute

#### Description

The affinity for the subnode agent.

#### Type

String

#### Warehouse name

SUBNODE\_AFFINITY or SN\_AFFIN

### Subnode Type attribute: This attribute is a key attribute.

#### Description

The Node Type of this subnode.

#### Type

String

#### Warehouse name

SUBNODE\_TYPE or SN\_TYPE

### Subnode Resource Name attribute

#### Description

The Resource Name of the subnode agent.

#### Type

String

#### Warehouse name

SUBNODE\_RESOURCE\_NAME or SN\_RES

### Subnode Version attribute

#### Description

The Version of the subnode agent.

#### Type

String

#### Warehouse name

SUBNODE\_VERSION or SN\_VER

## DataPower XC10 Appliances Nodes attribute group

XC10

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the DataPower XC10 Appliances Nodes attribute group:

### Node attribute: This attribute is a key attribute.

#### Description

The managed system name of the agent.

#### Type

String

#### Warehouse name

NODE

### Timestamp attribute

#### Description

The local time at the agent when the data was collected.

#### Type

String

#### Warehouse name

TIMESTAMP

### Subnode MSN attribute: This attribute is a key attribute.

#### Description

The Managed System Name of the subnode agent.

#### Type

String

<b>Warehouse name</b>	SUBNODE_MSN or SN_MSN
<b><u>Subnode Affinity attribute</u></b>	
<b>Description</b>	The affinity for the subnode agent.
<b>Type</b>	String
<b>Warehouse name</b>	SUBNODE_AFFINITY or SN_AFFIN
<b><u>Subnode Type attribute: This attribute is a key attribute.</u></b>	
<b>Description</b>	The Node Type of this subnode.
<b>Type</b>	String
<b>Warehouse name</b>	SUBNODE_TYPE or SN_TYPE
<b><u>Subnode Resource Name attribute</u></b>	
<b>Description</b>	The Resource Name of the subnode agent.
<b>Type</b>	String
<b>Warehouse name</b>	SUBNODE_RESOURCE_NAME or SN_RES
<b><u>Subnode Version attribute</u></b>	
<b>Description</b>	The Version of the subnode agent.
<b>Type</b>	String
<b>Warehouse name</b>	SUBNODE_VERSION or SN_VER

## DomainsMemoryStatus attribute group

Use the DomainsMemoryStatus attributes to obtain details of memory usage all domains.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the DomainsMemoryStatus attribute group:

**Node attribute: This attribute is a key attribute.**

<b>Description</b>	The managed system name of the agent.
<b>Type</b>	String
<b>Warehouse name</b>	NODE

**Timestamp attribute**

<b>Description</b>	The local time at the agent when the data was collected.
<b>Type</b>	String
<b>Warehouse name</b>	TIMESTAMP

**Domain attribute: This attribute is a key attribute.**

<b>Description</b>	The name of the domain.
--------------------	-------------------------

**Type**

String

**Warehouse name**

DOMAIN or DNAME

**Current (KB) attribute****Description**

Current total memory being used by all services of this domain.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CURRENT

**1 min (KB) attribute****Description**

The peak memory usage by services of this domain over the previous minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEMINUTE or ONEMIN

**1 to 5 min (KB) attribute****Description**

The peak memory usage by services of this domain in the interval between 1 and 5 minutes ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FIVEMINUTES or FIVEMIN

**5 to 10 min (KB) attribute****Description**

The peak memory usage by services of this domain in the interval between 5 and 10 minutes ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENMINUTES or TENMIN

**10 to 60 min (KB) attribute**

**Description**

The peak memory usage by services of this domain in the interval between 10 minutes and 1 hour ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR

**1 to 12 hours (KB) attribute**

**Description**

The peak memory usage by services of this domain in the interval between 1 and 12 hours ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TWELVEHOURS or TWELVEH

**12 to 24 hours (KB) attribute**

**Description**

The peak memory usage by services of this domain in the interval between 12 hours and 1 day ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEDAY

**Lifetime (KB) attribute**

**Description**

The peak memory usage by services of this domain over its lifetime.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)

- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

LIFETIME or LIFETIM

**Doc Caches attribute**

**Description**

Total memory usage by all document caches in this domain.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

DOCUMENTCACHES or DOCACHE

**Stylesheet Caches attribute**

**Description**

Total memory usage by all stylesheet caches in this domain.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

STYLESHEETCACHES or SCACHE

**Device Host attribute**

**Description**

Hostname or IP address of the DataPower device.

**Type**

String

**Warehouse name**

DEVICE or SNMPHOSTSM

## DomainStatus attribute group

Information about the status of the domain. The data includes whether there are unsaved changes and whether any debugging option has been enabled.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the DomainStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Name attribute:** This attribute is a key attribute.

**Description**

The name of the domain.

**Type**

String

**Warehouse name**

NAME

**Save Needed attribute**

**Description**

Indicates whether the domain contains unsaved changes.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- on (1)
- off (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SAVENEDED or SAVNEED

**Trace Enabled attribute**

**Description**

Indicates whether the XML File Capture utility is enabled. This utility can only be enabled in the default domain.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- on (1)
- off (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TRACEENABLED or TRAENAB

**Debug Enabled attribute**

**Description**

Indicates whether the domain is employing debug logging level. At this level many messages are written to the log, which impacts performance.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- on (1)
- off (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

DEBUGENABLED or DUGENAB

### Probe Enabled attribute

#### Description

Indicates whether a service in the domain has the probe enabled.

#### Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- on (1)
- off (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

PROBEENABLED or PROENAB

### Diag Enabled attribute

#### Description

Indicates whether diagnostic tracing is enabled. Note that diagnostic tracing applies to all domains.

#### Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- on (1)
- off (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

DIAGENABLED or DIAENAB

### Current Command attribute

#### Description

Provides a list of commands that are currently running on the domain. Use this column to confirm whether long-running commands have completed

#### Type

String

#### Warehouse name

CURRENTCOMMAND or CURCOMM

### Quiesce State attribute

#### Description

Indicates the quiesce state of the domain. Individually quiesced services within a domain are not reported here..

#### Type

String

#### Warehouse name

QUIESCESTATE or QSTATE

### Device attribute

#### Description

Device

#### Type

String

#### Warehouse name

DEVICE

## DPC Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application

all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

### **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

### **Attribute descriptions**

The following list contains information about each attribute in the DPC Performance Object Status attribute group:

**Node attribute: This attribute is a key attribute.**

#### **Description**

The managed system name of the agent.

#### **Type**

String

#### **Warehouse name**

NODE

### **Timestamp attribute**

#### **Description**

The local time at the agent when the data was collected.

#### **Type**

String

#### **Warehouse name**

TIMESTAMP

**Query Name attribute: This attribute is a key attribute.**

#### **Description**

The name of the attribute group.

#### **Type**

String

#### **Warehouse name**

QUERY\_NAME or ATTRGRP

### **Object Name attribute**

#### **Description**

The name of the performance object.

#### **Type**

String

#### **Warehouse name**

OBJECT\_NAME or OBJNAME

### **Object Type attribute**

#### **Description**

The type of the performance object.

#### **Type**

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)

- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

OBJECT\_TYPE or OBJTYPE

**Object Status attribute**

**Description**

The status of the performance object.

**Type**

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

OBJECT\_STATUS or OBJSTTS

**Error Code attribute**

**Description**

The error code that is associated with the query.

**Type**

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)

- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)
- ICMP SOCKETS FAILED (70)
- DUPLICATE CONF FILE (71)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ERROR\_CODE or ERRCODE

### Last Collection Start attribute

#### Description

The most recent time a data collection of this group started.

#### Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (0000000000000001)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

LAST\_COLLECTION\_START or COLSTRT

### Last Collection Finished attribute

#### Description

The most recent time a data collection of this group finished.

#### Type

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (0000000000000001)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

LAST\_COLLECTION\_FINISHED or COLFINI

### Last Collection Duration attribute

#### Description

The duration of the most recently completed data collection of this group in seconds.

#### Type

Real number (32-bit counter) with two decimal places of precision

#### Warehouse name

LAST\_COLLECTION\_DURATION or COLDURA

### Average Collection Duration attribute

#### Description

The average duration of all data collections of this group in seconds.

#### Type

Real number (32-bit counter) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

AVERAGE\_COLLECTION\_DURATION or COLAVGD

### Refresh Interval attribute

#### Description

The interval at which this group is refreshed in seconds.

#### Type

Integer (32-bit counter)

#### Warehouse name

REFRESH\_INTERVAL or REFRINT

### Number of Collections attribute

**Description**

The number of times this group has been collected since agent start.

**Type**

Integer (32-bit counter)

**Warehouse name**

NUMBER\_OF\_COLLECTIONS or NUMCOLL

### Cache Hits attribute

**Description**

The number of times an external data request for this group was satisfied from the cache.

**Type**

Integer (32-bit counter)

**Warehouse name**

CACHE\_HITS or CACHEHT

### Cache Misses attribute

**Description**

The number of times an external data request for this group was not available in the cache.

**Type**

Integer (32-bit counter)

**Warehouse name**

CACHE\_MISSES or CACHEMS

### Cache Hit Percent attribute

**Description**

The percentage of external data requests for this group that were satisfied from the cache.

**Type**

Real number (32-bit counter) with two decimal places of precision

**Warehouse name**

CACHE\_HIT\_PERCENT or CACHPCT

### Intervals Skipped attribute

**Description**

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

**Type**

Integer (32-bit counter)

**Warehouse name**

INTERVALS\_SKIPPED or INTSKIP

## **DPS Performance Object Status attribute group**

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

### **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

### **Attribute descriptions**

The following list contains information about each attribute in the DPS Performance Object Status attribute group:

**Node attribute:** This attribute is a key attribute.

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Query Name attribute:** This attribute is a key attribute.

**Description**

The name of the attribute group.

**Type**

String

**Warehouse name**

QUERY\_NAME or ATTRGRP

**Object Name attribute**

**Description**

The name of the performance object.

**Type**

String

**Warehouse name**

OBJECT\_NAME or OBJNAME

**Object Type attribute**

**Description**

The type of the performance object.

**Type**

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

OBJECT\_TYPE or OBJTYPE

**Object Status attribute**

**Description**

The status of the performance object.

**Type**

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

OBJECT\_STATUS or OBJSTTS

**Error Code attribute**

**Description**

The error code that is associated with the query.

**Type**

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)

- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)
- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)
- ICMP SOCKETS FAILED (70)
- DUPLICATE CONF FILE (71)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ERROR\_CODE or ERRCODE

**Last Collection Start attribute**

**Description**

The most recent time a data collection of this group started.

**Type**

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (0000000000000001)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

LAST\_COLLECTION\_START or COLSTRT

**Last Collection Finished attribute****Description**

The most recent time a data collection of this group finished.

**Type**

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (0000000000000001)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

LAST\_COLLECTION\_FINISHED or COLFINI

**Last Collection Duration attribute****Description**

The duration of the most recently completed data collection of this group in seconds.

**Type**

Real number (32-bit counter) with two decimal places of precision

**Warehouse name**

LAST\_COLLECTION\_DURATION or COLDURA

**Average Collection Duration attribute****Description**

The average duration of all data collections of this group in seconds.

**Type**

Real number (32-bit counter) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

AVERAGE\_COLLECTION\_DURATION or COLAVGD

**Refresh Interval attribute****Description**

The interval at which this group is refreshed in seconds.

**Type**

Integer (32-bit counter)

**Warehouse name**

REFRESH\_INTERVAL or REFRINT

**Number of Collections attribute****Description**

The number of times this group has been collected since agent start.

**Type**

Integer (32-bit counter)

**Warehouse name**

NUMBER\_OF\_COLLECTIONS or NUMCOLL

**Cache Hits attribute****Description**

The number of times an external data request for this group was satisfied from the cache.

**Type**  
Integer (32-bit counter)

**Warehouse name**  
CACHE\_HITS or CACHEHT

#### Cache Misses attribute

**Description**  
The number of times an external data request for this group was not available in the cache.

**Type**  
Integer (32-bit counter)

**Warehouse name**  
CACHE\_MISSES or CACHEMS

#### Cache Hit Percent attribute

**Description**  
The percentage of external data requests for this group that were satisfied from the cache.

**Type**  
Real number (32-bit counter) with two decimal places of precision

**Warehouse name**  
CACHE\_HIT\_PERCENT or CACHPCT

#### Intervals Skipped attribute

**Description**  
The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

**Type**  
Integer (32-bit counter)

**Warehouse name**  
INTERVALS\_SKIPPED or INTSKIP

## EthernetInterface attribute group

Use the EthernetInterface attributes to obtain information about the device-specific status of all Ethernet network interfaces on the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the EthernetInterface attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**  
The managed system name of the agent.

**Type**  
String

**Warehouse name**  
NODE

#### Timestamp attribute

**Description**  
The local time at the agent when the data was collected.

**Type**  
String

**Warehouse name**  
TIMESTAMP

#### Device Host attribute

**Description**  
Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTETHERNET or SNMPHOSTEI

**Interface attribute: This attribute is a key attribute.****Description**

Name of the Ethernet interface.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- eth0 (1)
- eth1 (2)
- eth2 (3)
- eth3 (4)
- mgt0 (5)
- eth5 (7)
- eth6 (8)
- eth7 (9)
- eth8 (10)
- eth9 (11)
- eth10 (12)
- tun (13)
- mgt1 (14)
- eth11 (15)
- eth12 (16)
- eth13 (17)
- eth14 (18)
- eth15 (19)
- eth16 (20)
- eth17 (21)
- eth20 (22)
- eth21 (23)
- eth22 (24)
- eth23 (25)
- eth24 (26)
- eth25 (27)
- eth26 (28)
- eth27 (29)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

NAME

**IP address attribute****Description**

IP address of the Ethernet interface.

**Type**

String

**Warehouse name**

IP

**MAC address attribute****Description**

The working physical address of the Ethernet interface, the default value of which is programmed in the Ethernet hardware. Interfaces configured for Standby mode use a configured physical address.

**Type**  
String  
**Warehouse name**  
MACADDRESS

**Status attribute**

**Description**  
The current link status of the interface. If there is no link, the interface does not respond to the network.

**Type**  
Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ok (1)
- no-link (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
STATUS

**Negotiate attribute**

**Description**  
The current Ethernet Negotiation status of the interface. Possible values are no (no negotiation), Auto (automatic negotiation), Failed (failure to negotiate), and Restarted (the negotiation restarted and the negotiated mode might change).

**Type**  
Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- no (1)
- auto (2)
- failed (3)
- restarted (4)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
NEGOTIATE

**Mode attribute**

**Description**  
The actual fixed, configured, or negotiated Ethernet PHY mode, including speed (10Mbps, 100Mbps, or 1000Mbps) and duplex (half or full).

**Type**  
Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- dr10BASE-T-HD (0)
- dr10BASE-T-FD (256)
- auto (4096)
- dr100BASE-TX-HD (8192)
- dr100BASE-TX-FD (8448)
- dr1000BASE-T-FD (65535)
- dr1000BASE-KX (65536)
- dr10GBASE-KX4 (131072)
- none (524288)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MODE

**MTU attribute**

**Description**

Current Maximum Transmission Unit.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MTU

**RX Kbytes attribute**

**Description**

Kilobytes of traffic that is received.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RXKBYTES

**RX Packets attribute**

**Description**

Number of packets that have been received.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RXPACKETS

**RX Errors attribute**

**Description**

Number of errors that are encountered during reception.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RXERRORS

### RX Drops attribute

#### **Description**

Number of received packets that are dropped.

#### **Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### **Warehouse name**

RXDROPS

### TX Kbytes attribute

#### **Description**

Kilobytes of traffic that is transmitted.

#### **Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### **Warehouse name**

TXKBYTES

### TX Packets attribute

#### **Description**

Number of packets that are transmitted.

#### **Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### **Warehouse name**

TXPACKETS

### TX Errors attribute

#### **Description**

Number of transmission errors.

#### **Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### **Warehouse name**

TXERRORS

### TX Drops attribute

**Description**

Number of packets that are dropped during transmission.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TXDROPS

**Collisions attribute****Description**

Number of collisions that are encountered.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
COLLISIONS

**FilesystemStatus attribute group**

Use the FilesystemStatus attributes to obtain information about the file system usage of the monitored DataPower appliance. Data for these attributes is gathered from the dpStatusFilesystemStatus MIB object.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the FilesystemStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**  
NODE

**Timestamp attribute****Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**  
TIMESTAMP

**Device Host attribute****Description**

Host name or IP address of the appliance.

**Type**

String

**Warehouse name**

SNMPHOSTFILESYS or SNMPHOSTFI

**Free Encrypted Space (MB) attribute**

**Description**

Free, or unused and available, encrypted storage space on the device. All files placed in encrypted storage are automatically encrypted for security by the device.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FREEENCRYPTED or FREEENCRYP

**Used Encrypted Space (MB) attribute**

**Description**

Encrypted storage space that is used on the device. All files that are placed in encrypted storage are automatically encrypted for security by the device.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDENCRYPTED or USEDENCRYP

**Total Encrypted Space (MB) attribute**

**Description**

Total encrypted storage space on the device (the maximum capacity). All files placed in encrypted storage are automatically encrypted for security by the device.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALENCRYPTED or TOTALENCRY

**Free Unencrypted Space (MB) attribute**

**Description**

Free, or unused and available, unencrypted storage space on the device. All files placed in unencrypted storage are not encrypted for security by the device.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FREEUNENCRYPTED or FREEUNENCR

**Used Unencrypted Space (MB) attribute**

**Description**

Unencrypted storage space that is used on the device. All files that are placed in unencrypted storage are not encrypted for security by the device.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDUNENCRYPTED or USEDUNENCR

**Total Unencrypted Space (MB) attribute**

**Description**

Total unencrypted storage space on the device. All files placed in unencrypted storage are not encrypted for security by the device.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALUNENCRYPTED or TOTALUNENC

**Free Temporary Space (MB) attribute**

**Description**

Free, or unused and available, temporary storage space on the device. The device uses temporary storage for processing, logging and debugging.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FREETEMPORARY or FREETEMPOR

**Used Temporary Space (MB) attribute**

**Description**

Temporary storage space that is used on the device. The device uses temporary storage for processing, logging, and debugging.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDTEMPORARY or USEDTEMPOR

**Total Temporary Space (MB) attribute**

**Description**

Total temporary storage space on the device. The device uses temporary storage for processing, logging and debugging.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALTEMPORARY or TOTALTEMPO

**Free Internal Space (MB) attribute**

**Description**

Free, or unused and available, internal storage space on the device. The device uses internal storage for import, export, firmware upgrades, and debug captures.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FREEINTERNAL or FREEINTERN

**Used Internal Space (MB) attribute**

**Description**

Internal storage space that is used on the device. The device uses internal storage for import, export, firmware upgrades, and debug captures.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDINTERNAL or USEDINTERN

**Total Internal Space (MB) attribute**

**Description**

Total internal storage space on the device. The device uses internal storage for import, export, firmware upgrades, and debug captures.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALINTERNAL or TOTALINTER

**Encrypted Usage (%) attribute****Description**

Usage of encrypted storage space on the device.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ENCRYPTEDUSAGE or ENCRYPTEDU

**Unencrypted Usage (%) attribute****Description**

Usage of unencrypted storage space on the device.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

UNENCRYPTEDUSAGE or UNENCRYPTE

**Temporary Usage (%) attribute****Description**

Usage of temporary storage space on the device.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TEMPORARYUSAGE or TEMPORARYU

**Internal Usage (%) attribute****Description**

Usage of internal storage space on the device.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

INTERNALUSAGE or INTERNALUS

## FirmwareStatus attribute group

Use the FirmwareStatus attributes to obtain information about the firmware status of the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the FirmwareStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTFIRMWAREST or SNMPHOSTFIS

**Install attribute: This attribute is a key attribute.**

**Description**

The appliance keeps two images -- the primary one(current installed) and the secondary one(last one installed) with which the appliance can rollback.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- primary (1)
- secondary (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TYPE

**Version attribute**

**Description**

This attribute reports the currently running version of the firmware.

**Type**

String

**Warehouse name**

VERSION or STATUSVERS

**Build attribute****Description**

The build number of the currently running firmware.

**Type**

String

**Warehouse name**

BUILD or STATUSBUIL

**Build Date (String) attribute****Description**

The date, in string format, that the currently running build of the firmware was created.

**Type**

String

**Warehouse name**

BUILDDATESTRING or STATUSBUI0

**Install Date (String) attribute****Description**

The date, in string format, that the currently running build of the firmware was installed.

**Type**

String

**Warehouse name**

INSTALLDATESTRING or INSTALLDAT

**Build Date attribute****Description**

The date, in localized datetime format, that the currently running build of the firmware was created.

**Type**

Timestamp

**Warehouse name**

BUILDDATE or BUILDDATE1

**Install Date attribute****Description**

The date, in localized datetime format, that the currently running build of the firmware was installed.

**Type**

Timestamp

**Warehouse name**

INSTALLDATE or INSTALLDA0

**Restart Count attribute****Description**

The number of times the firmware image was restarted through an appliance reboot or a firmware reload. The count is from the initial firmware load on the appliance till the current time. The count is independent of firmware version.

**Type**

String

**Warehouse name**

BOOTCOUNT

## FirmwareVersion attribute group

Use the FirmwareVersion attributes to obtain information about the firmware version of the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the FirmwareVersion attribute group:

**Node attribute:** This attribute is a key attribute.

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTFIRMWAREVER or SNMPHOSTFV

**Serial attribute**

**Description**

The serial number of the device. This number is unique to each device.

**Type**

String

**Warehouse name**

SERIAL

**Version attribute**

**Description**

The currently running version of the firmware.

**Type**

String

**Warehouse name**

VERSION

**Build attribute**

**Description**

The build number of the currently running firmware.

**Type**

String

**Warehouse name**

BUILD

**Build Date (String) attribute**

**Description**

The date, in string format, that the currently running build of the firmware was created.

<b>Type</b>	String
<b>Warehouse name</b>	BUILDDATESTRING or BUILDDATE
<b><u>Watchdog DPOS attribute</u></b>	
<b>Description</b>	The build number of the currently running system health monitor.
<b>Type</b>	String
<b>Warehouse name</b>	WATCHDOGBUILD or WATCHDOGBU
<b><u>Installed DPOS attribute</u></b>	
<b>Description</b>	The version number of the currently installed device manager.
<b>Type</b>	String
<b>Warehouse name</b>	INSTALLEDDPOS or INSTALLEDD
<b><u>Running DPOS attribute</u></b>	
<b>Description</b>	The version number of the currently running device manager.
<b>Type</b>	String
<b>Warehouse name</b>	RUNNINGDPOS or RUNNINGDPO
<b><u>XML Accelerator attribute</u></b>	
<b>Description</b>	The version number of the currently installed XML Accelerator.
<b>Type</b>	String
<b>Warehouse name</b>	XMLACCELERATOR or XMLACCELER
<b><u>Machine Type attribute</u></b>	
<b>Description</b>	The IBM machine type of the base system.
<b>Type</b>	String
<b>Warehouse name</b>	MACHINETYPE or MACHINETY
<b><u>Model Type attribute</u></b>	
<b>Description</b>	The IBM model type of the base system.
<b>Type</b>	String
<b>Warehouse name</b>	MODELTYPE
<b><u>Build Date attribute</u></b>	
<b>Description</b>	The date, in localized datetime format, that the currently running build of the firmware was created.
<b>Type</b>	Timestamp
<b>Warehouse name</b>	BUILDDATE or BUILDDATE1

## HTTPConnections attribute group

Use the HTTPConnections attributes to obtain information about HTTP connection statistics for all XML managers on the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the HTTPConnections attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTHTTPCON or SNMPHOSTHC

**XML Manager attribute: This attribute is a key attribute.**

**Description**

Name of the XML Manager. An XML Manager manages the compilation and caching of stylesheets, the caching of documents, and provides configuration constraints on the size and parsing depth of documents.

**Type**

String

**Warehouse name**

XMLMANAGER or XMLMANAGE0

**XML Manager Index attribute: This attribute is a key attribute.**

**Description**

Index of the XML Manager.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

XMLMANAGERINDEX or XMLMANAGER

**Request Last 10 Seconds attribute**

**Description**

Number of requests to use HTTP connections in the last 10 seconds.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQTENSEC

**Request Last 1 Minute attribute****Description**

Number of requests to use HTTP connections in the last minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQONEMIN

**Request Last 10 Minutes attribute****Description**

Number of requests to use HTTP connections in the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQTENMIN

**Request Last 1 Hour attribute****Description**

Number of requests to use HTTP connections in the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQONEHR

**Request Last 1 Day attribute****Description**

Number of requests to use HTTP connections in the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQONEDAY

**Reuse Last 10 Seconds attribute**

**Description**

Number of requests to reuse existing HTTP connections in the last 10 seconds.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REUSETENSEC or REUSETENSE

**Reuse Last 1 Minute attribute**

**Description**

Number of requests to reuse existing HTTP connections in the last minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REUSEONEMIN or REUSEONEMI

**Reuse Last 10 Minutes attribute**

**Description**

Number of requests to reuse existing HTTP connections in the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REUSETENMIN or REUSETENMI

**Reuse Last 1 Hour attribute**

**Description**

Number of requests to reuse existing HTTP connections in the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
REUSEONEHR

**Reuse Last 1 Day attribute**

**Description**  
Number of requests to reuse existing HTTP connections in the last day.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
REUSEONEDAY or REUSEONEDA

**Create Last 10 Seconds attribute**

**Description**  
Number of requests to create a new HTTP connection in the last 10 seconds.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
CREATETENSEC or CREATETENS

**Create Last 1 Minute attribute**

**Description**  
Number of requests to create a new HTTP connection in the last minute.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
CREATEONEMIN or CREATEONEM

**Create Last 10 Minutes attribute**

**Description**  
Number of requests to create a new HTTP connection in the last 10 minutes.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CREATETENMIN or CREATETENM

**Create Last 1 Hour attribute**

**Description**

Number of requests to create a new HTTP connection in the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CREATEONEHR or CREATEONEH

**Create Last 1 Day attribute**

**Description**

Number of requests to create a new HTTP connection in the last 1 day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CREATEONEDAY or CREATEONED

**Return Last 10 Seconds attribute**

**Description**

Number of requests to return to the pool after usage in the last 10 seconds.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RETURNTENSEC or RETURNTENS

**Return Last 1 Minute attribute**

**Description**

Number of requests to return to the pool after usage in the last minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RETURNONEMIN or RETURNONEM

**Return Last 10 Minutes attribute****Description**

Number of requests to return to the pool after usage in the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RETURNTENMIN or RETURNTENM

**Return Last 1 Hour attribute****Description**

Number of requests to return to the pool after usage in the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RETURNONEHR or RETURNONEH

**Return Last 1 Day attribute****Description**

Number of requests to return to the pool after usage in the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RETURNONEDAY or RETURNONED

**Offer Last 10 Seconds attribute****Description**

Number of connections that are made available for reuse in the last 10 seconds.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

OFFERTENSEC or OFFERTENSE

### Offer Last 1 Minute attribute

#### Description

Number of connections that are made available for reuse in the last minute.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

OFFERONEMIN or OFFERONEMI

### Offer Last 10 Minutes attribute

#### Description

Number of connections that are made available for reuse in the last 10 minutes.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

OFFERTENMIN or OFFERTENMI

### Offer Last 1 Hour attribute

#### Description

Number of connections that are made available for reuse in the last hour.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

OFFERONEHR

### Offer Last 1 Day attribute

#### Description

Number of connections that are made available for reuse in the last day.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

OFFERONEDAY or OFFERONEDA

### Destroy Last 10 Seconds attribute

**Description**

Number of connections that are destroyed in the last 10 seconds.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

DESTROYTENSEC or DESTROYTE0

**Destroy Last 1 Minute attribute****Description**

Number of connections that are destroyed in the last minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

DESTROYONEMIN or DESTROYON1

**Destroy Last 10 Minutes attribute****Description**

Number of connections that are destroyed in the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

DESTROYTENMIN or DESTROYTEN

**Destroy Last 1 Hour attribute****Description**

Number of connections that are destroyed in the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

DESTROYONEHR or DESTROYON0

**Destroy Last 1 Day attribute****Description**

Number of connections that are destroyed in the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

DESTROYONEDAY or DESTROYONE

**Domain attribute: This attribute is a key attribute.**

**Description**

Name of the application domain.

**Type**

String

**Warehouse name**

DOMAIN

## HTTPMeanTransactionTime2 attribute group

Use the HTTPMeanTransactionTime2 attributes to obtain information about the HTTP mean transaction times of the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the HTTPMeanTransactionTime2 attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute****Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute****Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTHTTPMEANTRANSTIME or SNMPHOSTHM

**Type attribute: This attribute is a key attribute.**

**Description**

Type of the service.

**Type**

Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- unknown (0)

- xSLProxyService (19)
- xMLFirewallService (42)
- wSGateway (95)
- multiProtocolGateway (101)
- webAppFW (132)
- b2BGateway (195)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SERVICECLASS or SERVICECLA

**Proxy attribute:** This attribute is a key attribute.

**Description**

Name of the proxy service.

**Type**

String

**Warehouse name**

PROXY

**Last 10 sec (msec) attribute**

**Description**

The mean transaction time over the last 10 seconds.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENSECONDS

**Last 1 min (msec) attribute**

**Description**

The mean transaction time over the last minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEMINUTE

**Last 10 min (msec) attribute**

**Description**

The mean transaction time over the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENMINUTES

**Last 1 hour (msec) attribute**

**Description**

The mean transaction time over the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
ONEHOUR

**Last 1 day (msec) attribute**

**Description**

The mean transaction time over the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
ONEDAY

**Domain attribute: This attribute is a key attribute.**

**Description**

Name of the application domain.

**Type**

String

**Warehouse name**  
DOMAIN

## HTTPTransactions2 attribute group

Use the HTTPTransactions2 attributes to obtain information about the HTTP transaction rate of the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the HTTPTransactions2 attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**  
NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**  
String  
**Warehouse name**  
TIMESTAMP

**Device Host attribute**

**Description**  
Host name or IP address of the device.

**Type**  
String

**Warehouse name**  
SNMPHOSTHTTPTRANS or SNMPHOSTHT

**Type attribute:** This attribute is a key attribute.

**Description**  
Type of the service.

**Type**  
Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- unknown (0)
- xSLProxyService (19)
- xMLFirewallService (42)
- wSGateway (95)
- multiProtocolGateway (101)
- webAppFW (132)
- b2BGateway (195)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
SERVICECLASS or SERVICECLA

**Proxy attribute:** This attribute is a key attribute.

**Description**  
Name of the proxy service.

**Type**  
String

**Warehouse name**  
PROXY

**Last 10 sec (txs per sec) attribute**

**Description**  
The transaction rate over the last 10 seconds.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENSECONDS

**Last 1 min (txs per sec) attribute**

**Description**  
The transaction rate over the last minute.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEMINUTE

**Last 10 min (txs per sec) attribute**

**Description**

The transaction rate over the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENMINUTES

**Last 1 hour (txs per sec) attribute**

**Description**

The transaction rate over the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR

**Last 1 day (txs per sec) attribute**

**Description**

The transaction rate over the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEDAY

**Domain attribute: This attribute is a key attribute.**

**Description**

Name of the application domain.

**Type**

String

**Warehouse name**

DOMAIN

## LogNotification attribute group

Use the LogNotification attributes to obtain information about the events from the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the LogNotification attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTLOG or SNMPHOSTLN

**Enterprise OID attribute**

**Description**

The enterprise OID that generated the trap

**Type**

String

**Warehouse name**

ENTERPRISE\_OID or ENTROID

**Source Address attribute**

**Description**

The address that sends the trap.

**Type**

String

**Warehouse name**

SOURCE\_ADDRESS or ADDR

**Generic Trap attribute**

**Description**

The generic trap ID of the trap.

**Type**

Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- UNKNOWN (-1)
- coldStart (0)
- warmStart (1)
- linkDown (2)
- linkUp (3)

- authenticationFailure (4)
- egpNeighborLoss (5)
- enterpriseSpecific (6)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

GENERIC\_TRAP or GENTR

**Specific Trap attribute**

**Description**

The specific trap id of the trap.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SPECIFIC\_TRAP or SPETR

**Type attribute**

**Description**

The log event category that is defined by the system or by users.

**Type**

Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- all (3)
- aaa (4)
- auth (5)
- cli (6)
- crypto (7)
- file (8)
- file-capture (9)
- http (10)
- ldap (11)
- mgmt (12)
- mime (13)
- monitor (14)
- mq (15)
- multistep (16)
- network (17)
- ssl (18)
- schema (19)
- smtp (20)
- system (21)
- tam (22)
- user (23)
- useragent (24)
- xslcoproc (25)
- xmlfilter (26)
- xmlfirewall (27)
- xslt (28)
- xsltmsg (29)
- xmlparse (30)

- xslproxy (31)
- xmlroute (32)
- cert-monitor (33)
- ocsip (34)
- ftp (68)
- ws-proxy (69)
- wsm-agent (70)
- mpgw (71)
- kerberos (72)
- slm (73)
- sql (74)
- network-file (76)
- icap (77)
- webapp-firewall (78)
- http-convert (79)
- tibco-ems (80)
- xacml (81)
- ltpa (82)
- latency (83)
- wasjms (84)
- file-poller (85)
- tfim (86)
- uddisub (87)
- wsrr (88)
- rbm (89)
- rpcsec-gss (90)
- secure-conversation (91)
- ims (92)
- iscsi (93)
- audit (94)
- wtx (95)
- zosnss (96)
- llm (97)
- ssh (98)
- sftp (99)
- b2bgw (100)
- b2bp (101)
- cms (102)
- uddi (246)
- wcc (247)
- self-balancing (248)
- sysplexdistributor (249)
- quiesce (250)
- fibre-channel (251)
- cluster-service (252)
- secure-cloud-connector (253)
- ipmi (254)
- memory-report (255)
- waxhn (256)
- wag (257)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

NOTIFICATIONTYPE or NOTIFICATI

Severity attribute

**Description**

The log event priority/Severity that is defined by the system or by users.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- emerg (1)
- alert (2)
- critic (3)
- error (4)
- warn (5)
- notice (6)
- info (7)
- debug (8)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

NOTIFICATIONSEVERITY or NOTIFICAT0

**Time attribute****Description**

Time when the log event is generated.

**Type**

String

**Warehouse name**

NOTIFICATIONTIME or NOTIFICAT1

**Message attribute****Description**

The log event message that is defined by the system or by users.

**Type**

String

**Warehouse name**

NOTIFICATIONTEXT or NOTIFICAT2

**Object attribute****Description**

The type of an object.

**Type**

String

**Warehouse name**

NOTIFICATIONOBJECT or NOTIFICAT3

**Object Name attribute****Description**

The name of an object.

**Type**

String

**Warehouse name**

NOTIFICATIONOBJECTNAME or NOTIFICAT4

**Trans ID attribute****Description**

The log event message ID that is defined by the system or by users.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

NOTIFICATIONTRANSID or NOTIFICAT5

**Domain attribute**

**Description**

Application Domain where the log event is originated.

**Type**

String

**Warehouse name**

NOTIFICATIONDOMAIN or NOTIFICAT6

**Event Code attribute**

**Description**

The log event code that is defined by the system or by users.

**Type**

String

**Warehouse name**

NOTIFICATIONEVENTCODE or NOTIFICAT7

**Time attribute**

**Description**

Time when log event is generated.

**Type**

Timestamp

**Warehouse name**

NOTIFICATIONTIME1 or NOTIFICAT8

**Trans ID attribute**

**Description**

The log event message ID that is defined by the system or by users.

**Type**

Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TRANSID or NOTIFICAT9

## LogTargetStatus attribute group

Use the LogTargetStatus attributes to obtain information about the log target status.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the LogTargetStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Name attribute:** This attribute is a key attribute.

**Description**

The name of the log target.

**Type**

String

**Warehouse name**

NAME

**Status attribute****Description**

The status of the log target. Status indications include active: the target is active; warning: the target is approaching failure and may have dropped messages; failure: the target has failed and doesn't collect messages; suspended: the target is busy sending messages.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- active (1)
- warning (2)
- failure (3)
- suspended (4)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

STATUS

**Memory (kbytes) attribute****Description**

The requested memory for this logging target. This measurement represents the high watermark of memory requested.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MEMORY

**Processed Events attribute****Description**

The number of events that this logging target has processed.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
PROCESSED

**Dropped Events attribute**

**Description**

The number of events that this logging target has dropped because too many were pending.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
DROPPED

**Pending Events attribute**

**Description**

The number of events pending for this logging target, waiting to be stored at the destination.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
PENDING

**Error info attribute**

**Description**

Any available error information.

**Type**

String

**Warehouse name**  
ERROR

**Appliance Host attribute**

**Description**

Appliance host name or IP address.

**Type**

String

**Warehouse name**  
APPLIANCE

**Domain attribute: This attribute is a key attribute.**

**Description**

Name of the application domain.

**Type**

String

**Warehouse name**  
DOMAIN

## MemoryStatus attribute group

Use the MemoryStatus attributes to obtain information about the memory usage of the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the MemoryStatus attribute group:

**Node attribute:** This attribute is a key attribute.

#### Description

The managed system name of the agent.

#### Type

String

#### Warehouse name

NODE

### Timestamp attribute

#### Description

The local time at the agent when the data was collected.

#### Type

String

#### Warehouse name

TIMESTAMP

### Device Host attribute

#### Description

Host name or IP address of the device.

#### Type

String

#### Warehouse name

SNMPHOSTMEMORY or SNMPHOSTMS

### Memory Usage (%) attribute

#### Description

The instantaneous memory usage as a percentage of the total memory.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

USAGE

### Total Memory (KB) attribute

#### Description

The total memory of the system in kilobytes.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

TOTALMEMORYK or TOTALMEMOK

### Used Memory (KB) attribute

#### Description

The amount of memory in kilobytes that is currently in use. The used memory does not include any hold memory.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

USEDMEMORYK or USEDMEMORK

### Free Memory (KB) attribute

#### Description

The amount of memory in kilobytes that is currently not in use and is therefore available. The free memory value includes any hold memory that is not currently in use.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

FREEMEMORYK or FREEMEMORK

### Requested Memory (KB) attribute

#### Description

The amount of memory in kilobytes that has been requested. Requested memory is not reported as used memory until the memory is actually in use.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

REQMEMORYK or REQMEMORK

### XG4 Memory (KB) attribute

#### Description

if an XML accelerator is available, the percentage of memory that is off-loaded to the XML accelerator in kilobytes.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

XG4USAGEK

**Hold Memory (KB) attribute**

**Description**

The amount of memory that is reserved by the appliance itself in kilobytes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

HOLDMEMORYK or HOLDMEMORK

**Total Memory (MB) attribute**

**Description**

The total memory of the system in MB.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALMEMORY or TOTALMEMOR

**Used Memory (MB) attribute**

**Description**

The amount of memory in MB that is currently in use. The used memory does not include any hold memory.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDMEMORY

**Free Memory (MB) attribute**

**Description**

The amount of memory in MB that is currently not in use and is therefore available. The free memory value includes any hold memory that is not currently in use.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)

- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FREEMEMORY

**Requested Memory (MB) attribute**

**Description**

The amount of memory in MB that has been requested. Requested memory is not reported as used memory until the memory is actually in use.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQMEMORY

**XG4 Memory (MB) attribute**

**Description**

if an XML accelerator is available, the percentage of memory that is off-loaded to the XML accelerator in MB.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

XG4USAGE

**Hold Memory (MB) attribute**

**Description**

The amount of memory that is reserved by the appliance itself in MB.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

HOLDMEMORY

## **MQConnections attribute group**

Use the MQConnections attributes to obtain information about MQ connection status for all domains on the monitored DataPower appliance.

### **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

## Attribute descriptions

The following list contains information about each attribute in the MQConnections attribute group:

**Node attribute: This attribute is a key attribute.**

### **Description**

The managed system name of the agent.

### **Type**

String

### **Warehouse name**

NODE

**Timestamp attribute**

### **Description**

The local time at the agent when the data was collected.

### **Type**

String

### **Warehouse name**

TIMESTAMP

**Queue Manager attribute: This attribute is a key attribute.**

### **Description**

Name of the queue manager.

### **Type**

String

### **Warehouse name**

QUEUEMANAGER or QUEMGR

**Domain attribute: This attribute is a key attribute.**

### **Description**

Name of the application domain.

### **Type**

String

### **Warehouse name**

DOMAIN

**Front-end Active Connections attribute**

### **Description**

Number of active connections for the front-end side.

### **Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

### **Warehouse name**

FRONTACTIVE or FRNTACTCON

**Back-end Active Connections attribute**

### **Description**

Number of active connections for the back-end side.

### **Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

BACKACTIVE or BACKACTCON

**Total Active Connections attribute**

**Description**

Total number of active connections.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALACTVE or TOTLACTCON

**Idle Connections attribute**

**Description**

Number of idle connections.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

IDLECONN or IDELCON

**Total Connections attribute**

**Description**

Number of connections in total.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALCONN or TOTLCON

**Total Connection Limit attribute**

**Description**

Total number of connections to the queue manager that is allowed.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALCONNLMT or TOTLCONLMT

## NetworkReceiveDataThroughput attribute group

Use the NetworkReceiveDataThroughput attributes to obtain information about the receive throughput, in kibibytes per second, for all network interfaces on the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the NetworkReceiveDataThroughput attribute group:

**Node attribute: This attribute is a key attribute.**

#### Description

The managed system name of the agent.

#### Type

String

#### Warehouse name

NODE

### Timestamp attribute

#### Description

The local time at the agent when the data was collected.

#### Type

String

#### Warehouse name

TIMESTAMP

### Device Host attribute

#### Description

Host name or IP address of the device.

#### Type

String

#### Warehouse name

SNMPHOSTNETRECVDATATP or SNMPHOSTRD

**Interface Type attribute: This attribute is a key attribute.**

#### Description

The type of this interface.

#### Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ethernet (6)
- tunnel (131)
- vLAN (135)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

TYPE

**Interface Name attribute: This attribute is a key attribute.**

#### Description

The management name of this interface.

#### Type

String

#### Warehouse name

NAME

### Last 10 sec (Kibits/sec) attribute

#### Description

The average receive throughput over the last 10 seconds.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENSECONDS

**Last 1 min (Kibits/sec) attribute**

**Description**

The average receive throughput over the last minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEMINUTE

**Last 10 min (Kibits/sec) attribute**

**Description**

The average receive throughput over the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENMINUTES

**Last 1 hour (Kibits/sec) attribute**

**Description**

The average receive throughput over the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR

**Last 1 day (Kibits/sec) attribute**

**Description**

The average receive throughput over the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
ONEDAY

**Last 10 sec (Packets/sec) attribute**

**Description**

The average receive throughput over the last 10 seconds.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENSECONDS2 or TENSECOND2

**Last 1 min (Packets/sec) attribute**

**Description**

The average receive throughput over the last minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
ONEMINUTE2

**Last 10 min (Packets/sec) attribute**

**Description**

The average receive throughput over the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENMINUTES2 or TENMINUTE2

**Last 1 hour (Packets/sec) attribute**

**Description**

The average receive throughput over the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR2

**Last 1 day (Packets/sec) attribute**

**Description**

The average receive throughput over the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEDAY2

## NetworkTransmitDataThroughput attribute group

Use the NetworkTransmitDataThroughput attributes to obtain information about the transmit throughput, in kibibytes per second, for all network interfaces on the monitored DataPower appliance.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the NetworkTransmitDataThroughput attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTNETTRANSDATATP or SNMPHOSTTD

**Interface Type attribute: This attribute is a key attribute.**

**Description**

The type of this interface.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ethernet (6)

- tunnel (131)
- vLAN (135)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TYPE

**Interface Name attribute: This attribute is a key attribute.**

**Description**  
The management name of this interface.

**Type**  
String

**Warehouse name**  
NAME

**Last 10 sec (Kibits/sec) attribute**

**Description**  
The average transmit throughput over the last 10 seconds.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENSECONDS

**Last 1 min (Kibits/sec) attribute**

**Description**  
The average transmit throughput over the last minute.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
ONEMINUTE

**Last 10 min (Kibits/sec) attribute**

**Description**  
The average transmit throughput over the last 10 minutes.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENMINUTES

**Last 1 hour (Kibits/sec) attribute**

**Description**

The average transmit throughput over the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR

**Last 1 day (Kibits/sec) attribute****Description**

The average transmit throughput over the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEDAY

**Last 10 sec (Packets/sec) attribute****Description**

The average transmit throughput over the last 10 seconds.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENSECONDS2 or TENSECOND2

**Last 1 min (Packets/sec) attribute****Description**

The average transmit throughput over the last minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEMINUTE2

**Last 10 min (Packets/sec) attribute****Description**

The average transmit throughput over the last 10 minutes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENMINUTES2 or TENMINUTE2

**Last 1 hour (Packets/sec) attribute****Description**

The average transmit throughput over the last hour.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR2

**Last 1 day (Packets/sec) attribute****Description**

The average transmit throughput over the last day.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEDAY2

## ObjectStatus attribute group

Use the ObjectStatus attributes to obtain information about the status of the configuration objects on the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the ObjectStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute****Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTOBJECT or SNMPHOSTOB

**Type attribute: This attribute is a key attribute.**

**Description**

Type of the configuration object.

**Type**

Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- configBase (0)
- dNSNameService (1)
- ethernetInterface (2)
- cRLFatch (3)
- hTTPService (4)
- statistics (5)
- traceTarget (6)
- nTPService (7)
- throttler (8)
- stylePolicy (9)
- hTTPUserAgent (10)
- tCPProxyService (12)
- uRLMap (13)
- uRLRefreshPolicy (14)
- user (15)
- networkSettings (16)
- xMLManager (17)
- mQQM (18)
- xSLProxyService (19)
- mQGw (20)
- sSLProxyService (21)
- stylePolicyRule (22)
- errorReportSettings (23)
- iPInterface (25)
- matching (26)
- systemSettings (27)
- sNMPSettings (28)
- rADIUSSettings (29)
- userGroup (30)
- shellAlias (31)
- xSLCoproService (32)
- telnetService (33)
- cryptoSSKey (34)
- messageMonitor (35)
- uRLRewritePolicy (36)
- sSLProxyProfile (37)
- hTTPProxyService (38)
- service (39)

- cryptoFWCred (41)
- xMLFirewallService (42)
- cryptoKey (43)
- cryptoCertificate (44)
- cryptoIdentCred (45)
- cryptoValCred (46)
- cryptoProfile (47)
- logTarget (48)
- sSHService (49)
- crypto (50)
- webGUI (51)
- eventlog (52)
- accessControl (53)
- messageFlowControl (54)
- mQConfiguration (55)
- deviceSettings (56)
- deviceManagementService (57)
- networkConfiguration (58)
- logLabel (59)
- mgmtInterface (60)
- messageMatching (61)
- messageType (62)
- countMonitor (63)
- durationMonitor (64)
- filterAction (65)
- hTTPInputConversionMap (66)
- compileOptionsPolicy (68)
- xPathRoutingMap (69)
- schemaExceptionMap (70)
- reserved71 (71)
- documentCryptoMap (72)
- tAM (73)
- domain (74)
- timeSettings (75)
- dynamicXMLContentMap (77)
- dynamicStylesheet (78)
- dynamicSchema (79)
- accessControlList (80)
- importPackage (81)
- mQhost (82)
- mQproxy (83)
- loadBalancerGroup (84)
- rBMSettings (85)
- includeConfig (86)
- certMonitor (87)
- hostAlias (88)
- aAAPolicy (91)
- stylePolicyAction (92)
- cryptoKerberosKDC (93)
- webServiceMonitor (94)
- wSGateway (95)
- stylePolicyRuleBase (96)
- wSStylePolicyRule (97)
- wSStylePolicy (98)
- webServicesAgent (99)
- gatewayBase (100)

- multiProtocolGateway (101)
- sourceProtocolHandler (102)
- hTTPSourceProtocolHandler (103)
- hTTPSSourceProtocolHandler (104)
- mQSourceProtocolHandler (105)
- xTCProtocolHandler (106)
- cryptoKerberosKeytab (109)
- statelessTCPSourceProtocolHandler (110)
- sLMCredClass (111)
- sLMRsrcClass (112)
- sLMSchedule (113)
- sLMAction (114)
- sLMPolicy (115)
- peerGroup (116)
- reserved117 (117)
- tFIMEndpoint (118)
- xmltrace (120)
- nFSClientSettings (121)
- wSEndpointRewritePolicy (122)
- sQLDataSource (124)
- nFSStaticMount (125)
- nFSDynamicMounts (126)
- webAppErrorHandlingPolicy (127)
- simpleCountMonitor (128)
- nameValueProfile (129)
- webAppResponse (130)
- webAppRequest (131)
- webAppFW (132)
- appSecurityPolicy (133)
- uDDIRegistry (134)
- webAppSessionPolicy (135)
- jMSServer (136)
- tibcoEMSServer (137)
- tibcoEMSSourceProtocolHandler (138)
- xACMLPDP (139)
- jMSSourceProtocolHandler (140)
- webSphereJMServer (141)
- webSphereJMSSourceProtocolHandler (142)
- processingMetadata (143)
- mTOMPpolicy (144)
- fTPServerSourceProtocolHandler (145)
- filePollerSourceProtocolHandler (146)
- nFSFilePollerSourceProtocolHandler (147)
- fTPFilePollerSourceProtocolHandler (148)
- fTPQuoteCommands (149)
- mQQMBase (150)
- mQQMGroup (151)
- wSRRServer (152)
- wSRRSubscription (153)
- webServiceSubscription (154)
- uDDISubscription (155)
- vLANInterface (156)
- conformancePolicy (157)
- sOAPHeaderDisposition (158)
- policyAttachments (159)
- policyParameters (160)

- iMSConnect (161)
- iMSConnectSourceProtocolHandler (162)
- IDAPSearchParameters (163)
- configDeploymentPolicy (164)
- compactFlash (165)
- raidVolume (166)
- ILMSourceProtocolHandler (168)
- tRVSourceProtocolHandler (169)
- iScsiHBAConfig (170)
- iScsiTargetConfig (171)
- iScsiVolumeConfig (172)
- iScsiChapConfig (173)
- zosNSSClient (174)
- sSHServerSourceProtocolHandler (175)
- FTPDemonSourceProtocolHandler (176)
- aS3SourceProtocolHandler (177)
- aS2SourceProtocolHandler (178)
- b2BXPathRoutingPolicy (179)
- ILMInstance (180)
- ILMMulticastReceive (181)
- ILMMulticastTransmit (182)
- ILMUnicast (183)
- ILMMulticastTierGroup (184)
- ILMRoute (186)
- ILMPolicy (187)
- webB2BViewer (192)
- b2BPersistence (193)
- b2BProfileGroup (194)
- b2BGateway (195)
- b2BProfile (196)
- wCCService (197)
- formsLoginPolicy (198)
- tRVPolicy (199)
- tRVRoute (200)
- tRVInstance (201)
- ILMPolicyBase (202)
- ILMRouteBase (203)
- pOPPollerSourceProtocolHandlerBase (204)
- aS1PollerSourceProtocolHandler (205)
- pOPPollerSourceProtocolHandler (206)
- iScsiInitiatorConfig (167)
- fibreChannelHBA (188)
- fibreChannelTarget (189)
- fibreChannelVolume (190)
- sMTPServerConnection (207)
- xM70Persistence (208)
- wSRRSavedSearchSubscription (209)
- eBMS2SourceProtocolHandler (210)
- sAMLAttributes (211)
- sSHClientProfile (212)
- sFTPFilePollerSourceProtocolHandler (213)
- zHybridTargetControlService (214)
- multipathService (215)
- clusterService (216)
- secureCloudConnector (217)
- iPMILanChannel (218)

- iPMIUser (219)
- b2BCPACollaboration (220)
- mQFTESourceProtocolHandler (221)
- b2BCPA (222)
- b2BCPASenderSetting (223)
- b2BCPAReceiverSetting (224)
- runtimeSettings (246)
- sQLRuntimeSettings (247)
- webApplicationGateway (248)
- wAXHNProxy (300)
- hNApplication (301)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CLASS

**Operational State attribute**

**Description**

Operational state of the configuration object.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- up (1)
- down (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

OPSTATE

**Administration State attribute**

**Description**

Administrative state of the configuration object.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- enabled (1)
- disabled (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ADMINSTATE

**Name attribute: This attribute is a key attribute.**

**Description**

Name of the configuration object.

**Type**

String

**Warehouse name**

NAME

**Event Code attribute**

**Description**

Event detail of the configuration object or event code of the configuration object.

**Type**

String

**Warehouse name**  
EVENTCODE

**Error Code attribute**

**Description**  
Event text of the configuration object.

**Type**  
String

**Warehouse name**  
ERRORCODE

**Configuration State attribute**

**Description**  
Status of the configuration.

**Type**  
Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- invalid (1)
- saved (2)
- new (3)
- modified (4)
- deleted (5)
- external (6)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
CONFIGSTATE or CONFIGSTAT

**Domain attribute: This attribute is a key attribute.**

**Description**  
Name of the application domain.

**Type**  
String

**Warehouse name**  
DOMAIN

## Performance Object Status attribute group

The Performance Object Status attribute group contains information that reflects the status of other attribute groups so you can see the status of all of the performance objects that make up this application all at once. Each of these other performance attribute groups is represented by a row in this table (or other type of view). The status for an attribute group reflects the result of the last attempt to collect data for that attribute group, which allows you to see whether the agent is performing correctly. Unlike other attribute groups, the Performance Object Status attribute group does not reflect the state of the monitored application. This attribute group is most often used to determine why data is not available for one of the performance attribute groups.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the Performance Object Status attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**  
The managed system name of the agent.

**Type**  
String

**Warehouse name**  
NODE

### Timestamp attribute

#### Description

The local time at the agent when the data was collected.

#### Type

String

#### Warehouse name

TIMESTAMP

### Query Name attribute: This attribute is a key attribute.

#### Description

The name of the attribute group.

#### Type

String

#### Warehouse name

QUERY\_NAME or ATTRGRP

### Object Name attribute

#### Description

The name of the performance object.

#### Type

String

#### Warehouse name

OBJECT\_NAME or OBJNAME

### Object Type attribute

#### Description

The type of the performance object.

#### Type

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- WMI (0)
- PERFMON (1)
- WMI ASSOCIATION GROUP (2)
- JMX (3)
- SNMP (4)
- SHELL COMMAND (5)
- JOINED GROUPS (6)
- CIMOM (7)
- CUSTOM (8)
- ROLLUP DATA (9)
- WMI REMOTE DATA (10)
- LOG FILE (11)
- JDBC (12)
- CONFIG DISCOVERY (13)
- NT EVENT LOG (14)
- FILTER (15)
- SNMP EVENT (16)
- PING (17)
- DIRECTOR DATA (18)
- DIRECTOR EVENT (19)
- SSH REMOTE SHELL COMMAND (20)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

OBJECT\_TYPE or OBJTYPE

### Object Status attribute

**Description**

The status of the performance object.

**Type**

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- ACTIVE (0)
- INACTIVE (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

OBJECT\_STATUS or OBJSTTS

**Error Code attribute****Description**

The error code that is associated with the query.

**Type**

Integer with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO ERROR (0)
- GENERAL ERROR (1)
- OBJECT NOT FOUND (2)
- COUNTER NOT FOUND (3)
- NAMESPACE ERROR (4)
- OBJECT CURRENTLY UNAVAILABLE (5)
- COM LIBRARY INIT FAILURE (6)
- SECURITY INIT FAILURE (7)
- PROXY SECURITY FAILURE (9)
- NO INSTANCES RETURNED (10)
- ASSOCIATOR QUERY FAILED (11)
- REFERENCE QUERY FAILED (12)
- NO RESPONSE RECEIVED (13)
- CANNOT FIND JOINED QUERY (14)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 1 RESULTS (15)
- CANNOT FIND JOIN ATTRIBUTE IN QUERY 2 RESULTS (16)
- QUERY 1 NOT A SINGLETON (17)
- QUERY 2 NOT A SINGLETON (18)
- NO INSTANCES RETURNED IN QUERY 1 (19)
- NO INSTANCES RETURNED IN QUERY 2 (20)
- CANNOT FIND ROLLUP QUERY (21)
- CANNOT FIND ROLLUP ATTRIBUTE (22)
- FILE OFFLINE (23)
- NO HOSTNAME (24)
- MISSING LIBRARY (25)
- ATTRIBUTE COUNT MISMATCH (26)
- ATTRIBUTE NAME MISMATCH (27)
- COMMON DATA PROVIDER NOT STARTED (28)
- CALLBACK REGISTRATION ERROR (29)
- MDL LOAD ERROR (30)
- AUTHENTICATION FAILED (31)
- CANNOT RESOLVE HOST NAME (32)
- SUBNODE UNAVAILABLE (33)
- SUBNODE NOT FOUND IN CONFIG (34)
- ATTRIBUTE ERROR (35)
- CLASSPATH ERROR (36)

- CONNECTION FAILURE (37)
- FILTER SYNTAX ERROR (38)
- FILE NAME MISSING (39)
- SQL QUERY ERROR (40)
- SQL FILTER QUERY ERROR (41)
- SQL DB QUERY ERROR (42)
- SQL DB FILTER QUERY ERROR (43)
- PORT OPEN FAILED (44)
- ACCESS DENIED (45)
- TIMEOUT (46)
- NOT IMPLEMENTED (47)
- REQUESTED A BAD VALUE (48)
- RESPONSE TOO BIG (49)
- GENERAL RESPONSE ERROR (50)
- SCRIPT NONZERO RETURN (51)
- SCRIPT NOT FOUND (52)
- SCRIPT LAUNCH ERROR (53)
- CONF FILE DOES NOT EXIST (54)
- CONF FILE ACCESS DENIED (55)
- INVALID CONF FILE (56)
- EIF INITIALIZATION FAILED (57)
- CANNOT OPEN FORMAT FILE (58)
- FORMAT FILE SYNTAX ERROR (59)
- REMOTE HOST UNAVAILABLE (60)
- EVENT LOG DOES NOT EXIST (61)
- PING FILE DOES NOT EXIST (62)
- NO PING DEVICE FILES (63)
- PING DEVICE LIST FILE MISSING (64)
- SNMP MISSING PASSWORD (65)
- DISABLED (66)
- URLS FILE NOT FOUND (67)
- XML PARSE ERROR (68)
- NOT INITIALIZED (69)
- ICMP SOCKETS FAILED (70)
- DUPLICATE CONF FILE (71)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ERROR\_CODE or ERRCODE

**Last Collection Start attribute**

**Description**

The most recent time a data collection of this group started.

**Type**

Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (0000000000000001)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

LAST\_COLLECTION\_START or COLSTRT

**Last Collection Finished attribute**

**Description**

The most recent time a data collection of this group finished.

**Type**  
Timestamp with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NOT COLLECTED (0691231190000000)
- NOT COLLECTED (0000000000000001)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
LAST\_COLLECTION\_FINISHED or COLFINI

**Last Collection Duration attribute**

**Description**  
The duration of the most recently completed data collection of this group in seconds.

**Type**  
Real number (32-bit counter) with two decimal places of precision

**Warehouse name**  
LAST\_COLLECTION\_DURATION or COLDURA

**Average Collection Duration attribute**

**Description**  
The average duration of all data collections of this group in seconds.

**Type**  
Real number (32-bit counter) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
AVERAGE\_COLLECTION\_DURATION or COLAVGD

**Refresh Interval attribute**

**Description**  
The interval at which this group is refreshed in seconds.

**Type**  
Integer (32-bit counter)

**Warehouse name**  
REFRESH\_INTERVAL or REFRINT

**Number of Collections attribute**

**Description**  
The number of times this group has been collected since agent start.

**Type**  
Integer (32-bit counter)

**Warehouse name**  
NUMBER\_OF\_COLLECTIONS or NUMCOLL

**Cache Hits attribute**

**Description**  
The number of times an external data request for this group was satisfied from the cache.

**Type**  
Integer (32-bit counter)

**Warehouse name**  
CACHE\_HITS or CACHEHT

**Cache Misses attribute**

**Description**

The number of times an external data request for this group was not available in the cache.

**Type**

Integer (32-bit counter)

**Warehouse name**

CACHE\_MISSES or CACHEMS

**Cache Hit Percent attribute****Description**

The percentage of external data requests for this group that were satisfied from the cache.

**Type**

Real number (32-bit counter) with two decimal places of precision

**Warehouse name**

CACHE\_HIT\_PERCENT or CACHPCT

**Intervals Skipped attribute****Description**

The number of times a background data collection for this group was skipped because the previous collection was still running when the next one was due to start.

**Type**

Integer (32-bit counter)

**Warehouse name**

INTERVALS\_SKIPPED or INTSKIP

## ServicesMemoryStatus attribute group

Use the ServicesMemoryStatus attributes to obtain details of memory usage all services.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the ServicesMemoryStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute****Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Type attribute****Description**

Type of service.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- xSLProxyService (19)
- xMLFirewallService (42)

- wSGateway (95)
- multiProtocolGateway (101)
- webAppFW (132)
- b2BGateway (195)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SERVCECLASS or SERCLASS

**Name attribute**

**Description**

Name of the service.

**Type**

String

**Warehouse name**

SERVICENAME or SERNAME

**Current (KB) attribute**

**Description**

Current memory being used by this service.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CURRENT

**1 min (KB) attribute**

**Description**

The peak memory usage by the service over the previous minute.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEMINUTE or ONEMIN

**1 to 5 min (KB) attribute**

**Description**

The peak memory usage by the service in the interval between 1 and 5 minutes ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FIVEMINUTES or FIVEMIN

**5 to 10 min (KB) attribute****Description**

The peak memory usage by the service in the interval between 5 and 10 minutes ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENMINUTES or TENMIN

**10 to 60 min (KB) attribute****Description**

The peak memory usage by the service in the interval between 10 minutes and 1 hour ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR

**1 to 12 hours (KB) attribute****Description**

The peak memory usage by the service in the interval between 1 and 12 hours ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TWELVEHOURS or TWELVEH

**12 to 24 hours (KB) attribute****Description**

The peak memory usage by the service in the interval between 12 hours and 1 day ago.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
ONEDAY

**Lifetime (KB) attribute**

**Description**

The peak memory usage by the service over its lifetime.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
LIFETIME or LIFETIM

**Domain attribute: This attribute is a key attribute.**

**Description**

Name of the domain.

**Type**

String

**Warehouse name**  
DOMAIN

**Device Host attribute**

**Description**

Hostname or IP address of the DataPower device.

**Type**

String

**Warehouse name**  
DEVICE or SNMPHOSTSM

## ServicesStatus attribute group

Use the ServicesStatus attributes to obtain information about the active services on the monitored DataPower appliance. Data for these attributes is gathered from the dpStatusServicesStatusTable MIB object.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the ServicesStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**  
NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**  
TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTSERVICES or SNMPHOSTSS

**Local IP attribute: This attribute is a key attribute.**

**Description**

The address on which the service listens. The 0.0.0.0 indicates that the service is active on all addresses or interfaces. A specific IP address indicates that the service is active on a particular interface only.

**Type**

String

**Warehouse name**

LOCALIP

**Local Port attribute: This attribute is a key attribute.**

**Description**

The local port to monitor for incoming client requests.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

LOCALPORT

**Type attribute: This attribute is a key attribute.**

**Description**

Type of service, such as XML firewall, XML Mgmt, WEB Mgmt, WebServices, and Multi-Protocol Gateway.

**Type**

Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- configBase (0)
- dNSNameService (1)
- ethernetInterface (2)
- cRlFetch (3)
- hTTPService (4)
- statistics (5)
- traceTarget (6)
- nTPService (7)
- throttler (8)
- stylePolicy (9)
- hTTPUserAgent (10)
- tCPProxyService (12)
- uRLMap (13)
- uRLRefreshPolicy (14)
- user (15)
- networkSettings (16)
- xMLManager (17)
- mQQM (18)
- xSLProxyService (19)

- mQGW (20)
- sSLProxyService (21)
- stylePolicyRule (22)
- errorReportSettings (23)
- iPInterface (25)
- matching (26)
- systemSettings (27)
- sNMPSettings (28)
- rADIUSSettings (29)
- userGroup (30)
- shellAlias (31)
- xSLCoproService (32)
- telnetService (33)
- cryptoSSKey (34)
- messageMonitor (35)
- uRLRewritePolicy (36)
- sSLProxyProfile (37)
- hTTPProxyService (38)
- service (39)
- cryptoFWCred (41)
- xMLFirewallService (42)
- cryptoKey (43)
- cryptoCertificate (44)
- cryptoIdentCred (45)
- cryptoValCred (46)
- cryptoProfile (47)
- logTarget (48)
- sSHService (49)
- crypto (50)
- webGUI (51)
- eventlog (52)
- accessControl (53)
- messageFlowControl (54)
- mQConfiguration (55)
- deviceSettings (56)
- deviceManagementService (57)
- networkConfiguration (58)
- logLabel (59)
- mgmtInterface (60)
- messageMatching (61)
- messageType (62)
- countMonitor (63)
- durationMonitor (64)
- filterAction (65)
- hTTPInputConversionMap (66)
- compileOptionsPolicy (68)
- xPathRoutingMap (69)
- schemaExceptionMap (70)
- reserved71 (71)
- documentCryptoMap (72)
- tAM (73)
- domain (74)
- timeSettings (75)
- dynamicXMLContentMap (77)
- dynamicStylesheet (78)
- dynamicSchema (79)

- accessControlList (80)
- importPackage (81)
- mqhost (82)
- mqproxy (83)
- loadBalancerGroup (84)
- rBMSettings (85)
- includeConfig (86)
- certMonitor (87)
- hostAlias (88)
- aAAPolicy (91)
- stylePolicyAction (92)
- cryptoKerberosKDC (93)
- webServiceMonitor (94)
- wSGateway (95)
- stylePolicyRuleBase (96)
- wSStylePolicyRule (97)
- wSStylePolicy (98)
- webServicesAgent (99)
- gatewayBase (100)
- multiProtocolGateway (101)
- sourceProtocolHandler (102)
- hTTPSourceProtocolHandler (103)
- hTTPSSourceProtocolHandler (104)
- mqSourceProtocolHandler (105)
- xTCProtocolHandler (106)
- cryptoKerberosKeytab (109)
- statelessTCPSourceProtocolHandler (110)
- sLMCredClass (111)
- sLMRsrcClass (112)
- sLMSchedule (113)
- sLMAction (114)
- sLMPolicy (115)
- peerGroup (116)
- reserved117 (117)
- tFIMEndpoint (118)
- xmltrace (120)
- nFSClientSettings (121)
- wSEndpointRewritePolicy (122)
- sQLDataSource (124)
- nFSStaticMount (125)
- nFSDynamicMounts (126)
- webAppErrorHandlingPolicy (127)
- simpleCountMonitor (128)
- nameValueProfile (129)
- webAppResponse (130)
- webAppRequest (131)
- webAppFW (132)
- appSecurityPolicy (133)
- uDDIRegistry (134)
- webAppSessionPolicy (135)
- jMSServer (136)
- tibcoEMSServer (137)
- tibcoEMSSourceProtocolHandler (138)
- xACMLPDP (139)
- jMSSourceProtocolHandler (140)
- webSphereJMSSEServer (141)

- webSphereJMSSourceProtocolHandler (142)
- processingMetadata (143)
- mTOMPolicy (144)
- FTPServerSourceProtocolHandler (145)
- filePollerSourceProtocolHandler (146)
- nFSFilePollerSourceProtocolHandler (147)
- FTPFilePollerSourceProtocolHandler (148)
- FTPQuoteCommands (149)
- mQQMBase (150)
- mQQMGroup (151)
- wSRRServer (152)
- wSRRSubscription (153)
- webServiceSubscription (154)
- uDDISubscription (155)
- vLANInterface (156)
- conformancePolicy (157)
- sOAPHeaderDisposition (158)
- policyAttachments (159)
- policyParameters (160)
- iMSConnect (161)
- iMSConnectSourceProtocolHandler (162)
- IDAPSearchParameters (163)
- configDeploymentPolicy (164)
- compactFlash (165)
- raidVolume (166)
- iScsiInitiatorConfig (167)
- ILMSourceProtocolHandler (168)
- tRVSourceProtocolHandler (169)
- iScsiHBACongig (170)
- iScsiTargetConfig (171)
- iScsiVolumeConfig (172)
- iScsiChapConfig (173)
- zosNSSClient (174)
- sSHServerSourceProtocolHandler (175)
- fTPDemonSourceProtocolHandler (176)
- aS3SourceProtocolHandler (177)
- aS2SourceProtocolHandler (178)
- b2BXPathRoutingPolicy (179)
- ILMInstance (180)
- ILMMulticastReceive (181)
- ILMMulticastTransmit (182)
- ILMUnicast (183)
- ILMMulticastTierGroup (184)
- ILMRoute (186)
- ILMPolicy (187)
- fibreChannelHBA (188)
- fibreChannelTarget (189)
- fibreChannelVolume (190)
- webB2BViewer (192)
- b2BPersistence (193)
- b2BProfileGroup (194)
- b2BGateway (195)
- b2BProfile (196)
- wCCService (197)
- formsLoginPolicy (198)
- tRVPolicy (199)

- tRVRoute (200)
- tRVInstance (201)
- ILMPolicyBase (202)
- ILMRouteBase (203)
- pOPPollerSourceProtocolHandlerBase (204)
- aS1PollerSourceProtocolHandler (205)
- pOPPollerSourceProtocolHandler (206)
- sMTPServerConnection (207)
- xM70Persistence (208)
- wSRRSavedSearchSubscription (209)
- eBMS2SourceProtocolHandler (210)
- sAMLAttributes (211)
- sSHClientProfile (212)
- sFTPFilePollerSourceProtocolHandler (213)
- zHybridTargetControlService (214)
- multipathService (215)
- clusterService (216)
- secureCloudConnector (217)
- iPMILanChannel (218)
- iPMIUser (219)
- b2BCPACollaboration (220)
- mQFTESourceProtocolHandler (221)
- b2BCPA (222)
- b2BCPASenderSetting (223)
- b2BCPAReceiverSetting (224)
- runtimeSettings (246)
- sQLRuntimeSettings (247)
- webApplicationGateway (248)
- wAXHNProxy (300)
- hNApplication (301)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SERVICECLASS or SERVICECLA

**Name attribute:** This attribute is a key attribute.

**Description**

Name of this service.

**Type**

String

**Warehouse name**

SERVICENAME or SERVICENAM

**Domain attribute:** This attribute is a key attribute.

**Description**

Name of the application domain.

**Type**

String

**Warehouse name**

DOMAIN

## SQLConnections attribute group

Use the SQLConnections attributes to obtain information about SQL connection status for all SQL data sources on the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

## Attribute descriptions

The following list contains information about each attribute in the SQLConnections attribute group:

**Node attribute: This attribute is a key attribute.**

### **Description**

The managed system name of the agent.

### **Type**

String

### **Warehouse name**

NODE

**Timestamp attribute**

### **Description**

The local time at the agent when the data was collected.

### **Type**

String

### **Warehouse name**

TIMESTAMP

**SQL Data Source attribute: This attribute is a key attribute.**

### **Description**

Name of the SQL data source.

### **Type**

String

### **Warehouse name**

DATASOURCE or DTASRC

**Domain attribute: This attribute is a key attribute.**

### **Description**

Name of the application domain.

### **Type**

String

### **Warehouse name**

DOMAIN

**Active Connections attribute**

### **Description**

Number of active connections.

### **Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

### **Warehouse name**

ACTIVECONN or ACTCON

**Idle Connections attribute**

### **Description**

Number of idle connections.

### **Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
IDLECONN or IDELCON

**Total Connections attribute**

**Description**  
Total number of connections.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TOTALCONN or TOTLCON

**Total Connection Limit attribute**

**Description**  
Total number of connections to the data source that is allowed.

**Type**  
Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TOTALCONNLMT or TOTLCONLMT

## SystemLog attribute group

Use the SystemLog attributes to obtain information about the system logs. Data for these attributes is gathered from the system log files.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the SystemLog attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**  
The managed system name of the agent.

**Type**  
String

**Warehouse name**  
NODE

**Timestamp attribute**

**Description**  
The local time at the agent when the data was collected.

**Type**  
String

**Warehouse name**  
TIMESTAMP

**Device Host attribute**

**Description**  
Host name or IP address of the appliance.

**Type**  
String  
**Warehouse name**  
SNMPHOST

**Log File attribute**

**Description**  
Name of the log file.

**Type**  
String

**Warehouse name**  
LOGFILENAME or LOGFILENAM

**Log Time attribute: This attribute is a key attribute.**

**Description**  
Timestamp of when the message is logged.

**Type**  
Timestamp

**Warehouse name**  
LOGTIME

**Message Source attribute**

**Description**  
Source of the message. Normally it is the host name of the appliance if the host name is in the message. Otherwise, it is the local identifier.

**Type**  
String

**Warehouse name**  
MESSAGESOURCE or MESSAGESRC

**Message Header attribute**

**Description**  
The second portion of the message header beside Message Source. Usually, this attribute is a descriptive string that identifies the log, or any user-defined fields.

**Type**  
String

**Warehouse name**  
MESSAGEHEADER or MESSAGRHDR

**Level attribute**

**Description**  
Level of the message.

**Type**  
String

**Warehouse name**  
LEVEL

**Category attribute**

**Description**  
Category of the message.

**Type**  
String

**Warehouse name**  
CATEGORY

**Domain attribute**

**Description**  
Name of the domain where the message is generated.

**Type**  
String

**Warehouse name**  
DOMAIN

**Service Type attribute**

**Description**  
Type of the service.

**Type**  
String

**Warehouse name**  
SERVICETYPE or SERVICETYP

**Service Name attribute**

**Description**  
Name of the service.

**Type**  
String

**Warehouse name**  
SERVICENAME or SERVICENAM

**tid attribute**

**Description**  
ID of the transaction.

**Type**  
Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TRANSID

**Transaction State attribute**

**Description**  
State of the transaction.

**Type**  
String

**Warehouse name**  
TRANSACTIONSTATE or TRANSSTATE

**Client attribute**

**Description**  
IP address of the client.

**Type**  
String

**Warehouse name**  
CLIENT

**Message attribute**

**Description**  
Content of the message.

**Type**  
String

**Warehouse name**  
MESSAGE

**URL attribute**

**Description**  
The URL that the client uses to access the service.

**Type**  
String

**Warehouse name**  
URL

**Req Header Read (msec) attribute**

**Description**

The amount of time, in milliseconds, that it takes the appliance to read frontside request headers.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQUESTHEADERREAD or REQUESTHEA

**Req Header Sent (msec) attribute****Description**

The amount of time that has elapsed before the appliance completes sending request headers out on backside connection.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQUESTHEADERSSENT or REQUESTHEO

**Buffer Req Body (msec) attribute****Description**

The amount of time that has elapsed before the appliance is ready to start buffering request body.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

BUFFERREQUEST or BUFFERREQU

**Output Created (msec) attribute****Description**

The amount of time that has elapsed before all backside output is created.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

OUTPUTCREATED or OUTPUTCREA

### Output Sent (msec) attribute

#### Description

The amount of time that has elapsed before all backside output is sent.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

OUTPUTSENT

### Req Payload Proc Ready (msec) attribute

#### Description

The amount of time that has elapsed before the request payload processor is ready.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

REQUESTPAYLOADPROCESSORREADY or REQUESTPAY

### Req Payload Proc Input Read (msec) attribute

#### Description

The amount of time that has elapsed before the request payload processor completes reading the input.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

REQUESTPAYLOADPROCESSORINPUTREAD or REQUESTPA0

### Read Resp Header (msec) attribute

#### Description

The amount of time that has elapsed before the appliance completes reading response headers.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

READRESPONSEHEADER or READRESPON

**Sent Resp Header (msec) attribute****Description**

The amount of time that has elapsed before the appliance completes sending response headers to clients.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SENTRESPONSEHEADER or SENTRESPON

**Buffer Resp Data (msec) attribute****Description**

The amount of time that has elapsed before the appliance starts to buffer response data.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

BUFFERRESPONSE or BUFFERRESP

**Resp Created (msec) attribute****Description**

The amount of time that has elapsed before the appliance completes creating all response data.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RESPONSECREATED or RESPONSECR

**Resp Sent (msec) attribute****Description**

The amount of time that has elapsed before the appliance completes sending all response data.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RESPONSESENT or RESPONSESE

**Resp Payload Proc Ready (msec) attribute**

**Description**

The amount of time that has elapsed before the response-side payload processor is ready.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RESPONSEPAYLOADPROCESSORREADY or RESPONSEPA

**Resp Payload Proc Input Read (msec) attribute**

**Description**

The amount of time that has elapsed before the response-side payload processor completes reading input.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RESPONSEPAYLOADPROCESSORINPUTREAD or RESPONSEP0

**Backend Conn Started (msec) attribute**

**Description**

The amount of time that has elapsed before the backend connection is started.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

BACKENDCONNSTARTED or BACKENDCON

**Backend Conn Finished (msec) attribute**

**Description**

The amount of time that has elapsed before the backend connection is finished or attempts to give up.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)

- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

BACKENDCONNFINISHED or BACKENDCO0

**Req Process in Appliance (msec) attribute**

**Description**

The amount of time that has elapsed before the appliance starts to process the request.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQUESTPROCAPPLIANCE or REQUESTPRO

**Req Trans to Backend (msec) attribute**

**Description**

The amount of time that has elapsed before the request is transmitted to backend services.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

REQUESTTRANSTOBACKEND or REQUESTTRA

**Process in Backend (msec) attribute**

**Description**

The amount of time that has elapsed before the request is processed in backend services.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

PROCESSINBACKEND or PROCESSINB

**Resp Process in Appliance (msec) attribute**

**Description**

The amount of time that has elapsed before the response is processed in the appliance.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RESPONSEPROCAPPLIANCE or RESPONSEPR

**Resp Trans to Client (msec) attribute**

**Description**

The amount of time that has elapsed before the response is transmitted to the client.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

RESPONSETRANSTOCLIENT or RESPONSETR

## SystemUptime attribute group

Use the SystemUptime attributes to obtain information about the system uptime and time zone information of the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the SystemUptime attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTUPTIME or SNMPHOSTUP

**Local Time attribute**

**Description**

The current local time. This time is obtained from the timezone settings established on the Time Settings object and with the date and time settings set on the System Control page.

**Type**

String

**Warehouse name**

TIME

**Uptime attribute****Description**

The total amount of time the appliance has been up since the last reload or reboot. Note that a shutdown and reload resets this counter. This one belongs to agent6.3.

**Type**

String

**Warehouse name**

UPTIME

**Uptime (seconds) attribute****Description**

The total amount of time the appliance has been up since the last reload or reboot. Note that a shutdown and reload resets this counter. This one belongs to agent6.3.

**Type**

Real number (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

UPTIMES

**Time Zone attribute****Description**

The name of the time zone currently in effect, as set on the Time Settings page.

**Type**

String

**Warehouse name**

TIMEZONE

**Timezone Specification attribute****Description**

The POSIX.1 timezone specification. See Time Settings for more information.

**Type**

String

**Warehouse name**

TZSPEC

**Uptime reload attribute****Description**

The total amount of time the appliance has been up since the last reload or reboot. Note that a shutdown and reload resets this counter.

**Type**

String

**Warehouse name**

UPTIMERELOAD or RELOAD

**Uptime reboot attribute**

**Description**

The total amount of time since the last reboot. Note that this counter is reset by a shutdown and reboot , but not by a shutdown and reload .

**Type**

String

**Warehouse name**

UPTIMEREBOOT or REBOOT

## SystemUsage attribute group

Use the SystemUsage attributes to obtain information about the system load of the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the SystemUsage attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute****Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute****Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTSYSUSAGE or SNMPHOSTSU

**Interval (msec) attribute****Description**

The interval over which the appliance collects and displays load statistics, expressed in milliseconds.

**Type**

Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

INTERVAL

**Load (%) attribute****Description**

The percentage of total load on the device during the measurement interval. A load above 90 indicates the device is at or near load capacity.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

LOAD

**Work List attribute****Description**

The number of pending messages in queue for processing by the appliance. This attribute might include such activities as off-box logging and stylesheet or WSDL retrieval from remote locations. Off-box logging is error logging to a server that is separate from the DataPower appliance.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

WORKLIST

## SystemUsageTable attribute group

Use the SystemUsageTable attributes to obtain component-level information about the system usage of the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the SystemUsageTable attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute****Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute****Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTSYSTABLE or SNMPHOSTST

**Task Name attribute: This attribute is a key attribute.****Description**

Name of the task.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- main (1)
- llm (2)
- b2bp (3)
- wtx (4)
- ssh (5)
- odbc (6)
- db2cli (7)
- tamv6 (8)
- tamv61 (9)
- secureCloudConnector (10)
- dco (11)
- waxhn (12)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TASKNAME

**System Load (%) attribute****Description**

The percentage of total load on the device during the measurement interval. A load above 90 indicates the device is at or near load capacity.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

LOAD

**Work List attribute****Description**

The number of pending messages in queue for processing by the appliance. This might include such activities as off-box logging and stylesheet or WSDL retrieval from remote locations.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

WORKLIST

### CPU Usage (%) attribute

#### Description

The percentage of CPU resources that are used by this component. A value above 90 indicates the device is at or near capacity.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

CPU

### Memory Usage (%) attribute

#### Description

The percentage of memory space that is used by this component. A value above 90 indicates the device is at or near capacity.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

MEMORY

### Opened File Count attribute

#### Description

Number of open file descriptors. The file count increases when the device accepts new connections or opens a file for reading. It decreases when this descriptor is closed.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

FILECOUNT

## Take Action Status attribute group

The Take Action Status attribute group contains information about the results of actions this agent has executed.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the Take Action Status attribute group:

Node attribute: This attribute is a key attribute.

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute****Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Action Name attribute****Description**

The name of the action that was run.

**Type**

String

**Warehouse name**

ACTION\_NAME or TSKNAME

**Action Status attribute****Description**

The return code from the Action Status dialog which is the return code category defined for the application return code.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- OK (0)
- NOT APPLICABLE (1)
- GENERAL ERROR (2)
- WARNING (3)
- NOT RUNNING (4)
- DEPENDENT NOT RUNNING (5)
- ALREADY RUNNING (6)
- PREREQ NOT RUNNING (7)
- TIMED OUT (8)
- DOESNT EXIST (9)
- UNKNOWN (10)
- DEPENDENT STILL RUNNING (11)
- INSUFFICIENT USER AUTHORITY (12)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ACTION\_STATUS or TSKSTAT

**Action App Return Code attribute****Description**

The application return code of the action is the actual return code of the command that is executed.

**Type**

Integer (32-bit numeric property)

**Warehouse name**

ACTION\_APP\_RETURN\_CODE or TSKAPRC

**Action Message attribute**

**Description**

The message associated with the return code of the action.

**Type**

String

**Warehouse name**

ACTION\_MESSAGE or TSKMSGE

**Action Instance attribute****Description**

The instance associated with the output produced by running the action.

**Type**

String

**Warehouse name**

ACTION\_INSTANCE or TSKINST

**Action Results attribute****Description**

The output produced by running the action.

**Type**

String

**Warehouse name**

ACTION\_RESULTS or TSKOUTP

**Action Command attribute****Description**

The command that was run by the action.

**Type**

String

**Warehouse name**

ACTION\_COMMAND or TSKCMND

**Action Node attribute****Description**

The node where the action ran.

**Type**

String

**Warehouse name**

ACTION\_NODE or TSKORGN

**Action Subnode attribute****Description**

The subnode where the action ran.

**Type**

String

**Warehouse name**

ACTION\_SUBNODE or TSKSBND

**Action ID attribute****Description**

The id of the action.

**Type**

Integer (32-bit numeric property)

**Warehouse name**

ACTION\_ID or TSKID

**Action Type attribute****Description**

The type of the action.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- UNKNOWN (0)

- AUTOMATION (1)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ACTION\_TYPE or TSKTYPE

**Action Owner attribute**

**Description**

The name of the situation or user that initiated the action.

**Type**

String

**Warehouse name**

ACTION\_OWNER or TSKOWNER

## TCPSummary attribute group

Use the TCPSummary attributes to obtain information about the count of all current TCP connections or activities on the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the TCPSummary attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Device Host attribute**

**Description**

Host name or IP address of the device.

**Type**

String

**Warehouse name**

SNMPHOSTTCPSUM or SNMPHOSTTS

**Established attribute**

**Description**

The number of TCP connections in the established state. Connections in this state have completed all handshakes and can transfer data in either direction.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ESTABLISHED or ESTABLISHE

**Synchronize Sent attribute****Description**

The number of TCP connections in the syn-sent state. Connections in this state are waiting for a matching connection request after sending a connection request.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SYNSENT

**Synchronize Received attribute****Description**

The number of TCP connections in the syn-received state. Connections in this state are waiting for a confirming connection request acknowledgment after both receiving and sending a connection request.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SYNRECEIVED or SYNRECEIVE

**Finish Wait-1 attribute****Description**

The number of TCP connections in the fin-wait-1 state. Connections in this state are waiting for a connection termination request from the remote TCP or an acknowledgment of the connection termination request previously sent.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FINWAIT1

**Finish Wait-2 attribute****Description**

The number of TCP connections in the fin-wait-2 state. Connections in this state are waiting for a connection termination request from the remote TCP.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
FINWAIT2

**Time Wait attribute**

**Description**

The number of TCP connections in the time-wait state. Connections in this state are waiting for enough time to pass to be sure that the remote TCP received the acknowledgment of its connection termination request.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TIMEWAIT

**Closed attribute**

**Description**

The number of TCP connections in the closed state. This state represents no connection state at all.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
CLOSED

**Close Wait attribute**

**Description**

The number of TCP connections in the close-wait state. Connections in this state are waiting for a connection termination request from the local user.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
CLOSEWAIT

**Last Acknowledge attribute**

**Description**

The number of TCP connections in the last-ack state. Connections in this state are waiting for an acknowledgment of the connection termination request previously sent to the remote TCP .

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
LASTACK

**Listen attribute****Description**

The number of TCP connections in the listen state. Connections in the listen state are waiting for a connection request from any remote TCP and port.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
LISTEN

**Closing attribute****Description**

The number of TCP connections in the closing state. Connections in this state are waiting for a connection termination request acknowledgment from the remote TCP.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
CLOSING

**TCPTable attribute group**

Use the TCPTable attributes to obtain information about all TCP connections on the monitored DataPower appliance.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the TCPTable attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**  
NODE

### Timestamp attribute

#### Description

The local time at the agent when the data was collected.

#### Type

String

#### Warehouse name

TIMESTAMP

### Device Host attribute

#### Description

Host name or IP address of the device.

#### Type

String

#### Warehouse name

SNMPHOSTTCPTABLE or SNMPHOSTTC

### Local IP attribute: This attribute is a key attribute.

#### Description

The local IP address of this TCP connection. For connections in the listen state, an IP address of 0.0.0.0 means that connections will be accepted at any IP address of the system. A specific IP address indicates that connections will only be accepted at that IP address.

#### Type

String

#### Warehouse name

LOCALIP

### Local Port attribute: This attribute is a key attribute.

#### Description

The local TCP port number of this TCP connection.

#### Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

LOCALPORT

### Remote IP attribute: This attribute is a key attribute.

#### Description

The remote IP address of this TCP connection. The value is 0.0.0.0 for connections in the listen state. The value is a specific IP address for established connections.

#### Type

String

#### Warehouse name

REMOTEIP

### Remote Port attribute: This attribute is a key attribute.

#### Description

The remote TCP port number of this TCP connection.

#### Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
REMOTEPORT

**State attribute**

**Description**  
The state of the TCP connection as defined in RFC 793.

**Type**  
Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- established (1)
- syn-sent (2)
- syn-received (3)
- fin-wait-1 (4)
- fin-wait-2 (5)
- time-wait (6)
- closed (7)
- close-wait (8)
- last-ack (9)
- listen (10)
- closing (11)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
STATE

**Domain attribute**

**Description**  
For TCP connections that were created by a configuration object this value indicates the domain that the configuration object that created the listener is in. Only applies to connections in the listen state.

**Type**  
String

**Warehouse name**  
SERVICEDOMAIN or SERVICEDOM

**Type attribute**

**Description**  
The type of configuration object that created the listener. For all connections not in the listen state this value will be configBase.

**Type**  
Integer (64-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- (-1)
- configBase (0)
- dNSNameService (1)
- ethernetInterface (2)
- cRLFetch (3)
- hTTPService (4)
- statistics (5)
- traceTarget (6)
- nTPService (7)
- throttler (8)
- stylePolicy (9)
- hTTPUserAgent (10)

- tCPPProxyService (12)
- uRLMap (13)
- uRLRefreshPolicy (14)
- user (15)
- networkSettings (16)
- xMLManager (17)
- mQQM (18)
- xSLProxyService (19)
- mQGW (20)
- sSLProxyService (21)
- stylePolicyRule (22)
- errorReportSettings (23)
- iPInterface (25)
- matching (26)
- systemSettings (27)
- sNMPSettings (28)
- rADIUSSettings (29)
- userGroup (30)
- shellAlias (31)
- xSLCoproService (32)
- telnetService (33)
- cryptoSSKey (34)
- messageMonitor (35)
- uRLRewritePolicy (36)
- sSLProxyProfile (37)
- hTTPProxyService (38)
- service (39)
- cryptoFWCred (41)
- xMLFirewallService (42)
- cryptoKey (43)
- cryptoCertificate (44)
- cryptoIdentCred (45)
- cryptoValCred (46)
- cryptoProfile (47)
- logTarget (48)
- sSHService (49)
- crypto (50)
- webGUI (51)
- eventlog (52)
- accessControl (53)
- messageFlowControl (54)
- mQConfiguration (55)
- deviceSettings (56)
- deviceManagementService (57)
- networkConfiguration (58)
- logLabel (59)
- mgmtInterface (60)
- messageMatching (61)
- messageType (62)
- countMonitor (63)
- durationMonitor (64)
- filterAction (65)
- hTTPInputConversionMap (66)
- compileOptionsPolicy (68)
- xPathRoutingMap (69)
- schemaExceptionMap (70)

- reserved71 (71)
- documentCryptoMap (72)
- tAM (73)
- domain (74)
- timeSettings (75)
- dynamicXMLContentMap (77)
- dynamicStylesheet (78)
- dynamicSchema (79)
- accessControlList (80)
- importPackage (81)
- mQhost (82)
- mQproxy (83)
- loadBalancerGroup (84)
- rBMSettings (85)
- includeConfig (86)
- certMonitor (87)
- hostAlias (88)
- aAAPolicy (91)
- stylePolicyAction (92)
- cryptoKerberosKDC (93)
- webServiceMonitor (94)
- wSGateway (95)
- stylePolicyRuleBase (96)
- wSStylePolicyRule (97)
- wSStylePolicy (98)
- webServicesAgent (99)
- gatewayBase (100)
- multiProtocolGateway (101)
- sourceProtocolHandler (102)
- hTTPSourceProtocolHandler (103)
- hTTPSSourceProtocolHandler (104)
- mQSourceProtocolHandler (105)
- xTCProtocolHandler (106)
- cryptoKerberosKeytab (109)
- statelessTCPSourceProtocolHandler (110)
- sLMCredClass (111)
- sLMRsrcClass (112)
- sLMSchedule (113)
- sLMAction (114)
- sLMPolicy (115)
- peerGroup (116)
- reserved117 (117)
- tFIMEndpoint (118)
- xmltrace (120)
- nFSClientSettings (121)
- wSEndpointRewritePolicy (122)
- sQLDataSource (124)
- nFSStaticMount (125)
- nFSDynamicMounts (126)
- webAppErrorHandlingPolicy (127)
- simpleCountMonitor (128)
- nameValueProfile (129)
- webAppResponse (130)
- webAppRequest (131)
- webAppFW (132)
- appSecurityPolicy (133)

- uDDIRegistry (134)
- webAppSessionPolicy (135)
- jMSServer (136)
- tibcoEMSServer (137)
- tibcoEMSSourceProtocolHandler (138)
- xACMLPDP (139)
- jMSSourceProtocolHandler (140)
- webSphereJMSSEServer (141)
- webSphereJMSSESourceProtocolHandler (142)
- processingMetadata (143)
- mTOMPpolicy (144)
- FTPServerSourceProtocolHandler (145)
- filePollerSourceProtocolHandler (146)
- nFSFilePollerSourceProtocolHandler (147)
- FTPFilePollerSourceProtocolHandler (148)
- FTPQuoteCommands (149)
- mQQMBase (150)
- mQQMGroup (151)
- wSRRServer (152)
- wSRRSubscription (153)
- webServiceSubscription (154)
- uDDISubscription (155)
- vLANInterface (156)
- conformancePolicy (157)
- sOAPHeaderDisposition (158)
- policyAttachments (159)
- policyParameters (160)
- iMSConnect (161)
- iMSConnectSourceProtocolHandler (162)
- IDAPSearchParameters (163)
- configDeploymentPolicy (164)
- compactFlash (165)
- raidVolume (166)
- iScsiInitiatorConfig (167)
- ILMSourceProtocolHandler (168)
- tRVSourceProtocolHandler (169)
- iScsiHBACConfig (170)
- iScsiTargetConfig (171)
- iScsiVolumeConfig (172)
- iScsiChapConfig (173)
- zosNSSClient (174)
- sSHServerSourceProtocolHandler (175)
- FTPDemonSourceProtocolHandler (176)
- aS3SourceProtocolHandler (177)
- aS2SourceProtocolHandler (178)
- b2BXPathRoutingPolicy (179)
- ILMInstance (180)
- ILMMulticastReceive (181)
- ILMMulticastTransmit (182)
- ILMUnicast (183)
- ILMMulticastTierGroup (184)
- ILMRoute (186)
- ILMPolicy (187)
- fibreChannelHBA (188)
- fibreChannelTarget (189)
- fibreChannelVolume (190)

- webB2BViewer (192)
- b2BPersistence (193)
- b2BProfileGroup (194)
- b2BGateway (195)
- b2BProfile (196)
- wCCService (197)
- formsLoginPolicy (198)
- tRVPolicy (199)
- tRVRoute (200)
- tRVTransport (201)
- ILMPolicyBase (202)
- ILMRouteBase (203)
- pOPPollerSourceProtocolHandlerBase (204)
- aS1PollerSourceProtocolHandler (205)
- pOPPollerSourceProtocolHandler (206)
- sMTPServerConnection (207)
- xM70Persistence (208)
- wSRRSavedSearchSubscription (209)
- eBMS2SourceProtocolHandler (210)
- sAMLAAttributes (211)
- sSHClientProfile (212)
- sFTPFilePollerSourceProtocolHandler (213)
- zHybridTargetControlService (214)
- multipathService (215)
- clusterService (216)
- secureCloudConnector (217)
- iPMILanChannel (218)
- iPMIUser (219)
- b2BCPACollaboration (220)
- mQFTESourceProtocolHandler (221)
- b2BCPA (222)
- b2BCPASenderSetting (223)
- b2BCPAReceiverSetting (224)
- runtimeSettings (246)
- sQLRuntimeSettings (247)
- webApplicationGateway (248)
- wAXHNProxy (300)
- hNApplication (301)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

SERVICECLASS or SERVICECLA

**Name attribute**

**Description**

The name of the configuration object that created the listener. Only applies to TCP connections in the listen state.

**Type**

String

**Warehouse name**

SERVICENAME or SERVICENAM

## Thread Pool Status attribute group

The Thread Pool Status attribute group contains information that reflects the status of the internal thread pool used to collect data asynchronously.

## Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

## Attribute descriptions

The following list contains information about each attribute in the Thread Pool Status attribute group:

**Node attribute: This attribute is a key attribute.**

### Description

The managed system name of the agent.

### Type

String

### Warehouse name

NODE

## **Timestamp attribute**

### Description

The local time at the agent when the data was collected.

### Type

String

### Warehouse name

TIMESTAMP

## **Thread Pool Size attribute**

### Description

The number of threads currently existing in the thread pool.

### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

### Warehouse name

THREAD\_POOL\_SIZE or THPSIZE

## **Thread Pool Max Size attribute**

### Description

The maximum number of threads allowed to exist in the thread pool.

### Type

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

### Warehouse name

THREAD\_POOL\_MAX\_SIZE or TPMAXSZ

## **Thread Pool Active Threads attribute**

### Description

The number of threads in the thread pool currently active doing work.

### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_ACTIVE\_THREADS or TPACTTH

**Thread Pool Avg Active Threads attribute**

**Description**

The average number of threads in the thread pool simultaneously active doing work.

**Type**

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_AVG\_ACTIVE\_THREADS or TPAVGAT

**Thread Pool Min Active Threads attribute**

**Description**

The smallest number of threads in the thread pool that have simultaneously been active doing work.

**Type**

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_MIN\_ACTIVE\_THREADS or TPMINAT

**Thread Pool Max Active Threads attribute**

**Description**

The peak number of threads in the thread pool that have simultaneously been active doing work.

**Type**

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_MAX\_ACTIVE\_THREADS or TPMAXAT

**Thread Pool Queue Length attribute**

**Description**

The number of jobs currently waiting in the thread pool queue.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_QUEUE\_LENGTH or TPQLGTH

**Thread Pool Avg Queue Length attribute**

**Description**

The average length of the thread pool queue during this run.

**Type**

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_AVG\_QUEUE\_LENGTH or TPAVGQL

**Thread Pool Min Queue Length attribute**

**Description**

The minimum length the thread pool queue has reached.

**Type**

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_MIN\_QUEUE\_LENGTH or TPMINQL

**Thread Pool Max Queue Length attribute**

**Description**

The peak length the thread pool queue has reached.

**Type**

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_MAX\_QUEUE\_LENGTH or TPMAXQL

**Thread Pool Avg Job Wait attribute**

**Description**

The average time a job spends waiting on the thread pool queue in seconds.

**Type**

Real number (32-bit gauge) with two decimal places of precision with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_AVG\_JOB\_WAIT or TPAVJBW

**Thread Pool Total Jobs attribute**

**Description**

The number of jobs completed by all threads in the pool since agent start.

**Type**

Integer (32-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- NO DATA (-1)
- NO DATA (-100)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

THREAD\_POOL\_TOTAL\_JOBS or TPTJOBS

## WSMAgentStatus attribute group

Use the WSMAgentStatus attributes to obtain status of the WSM Agent per application domain. Data for these attributes is gathered from the dpStatusWSMAgentStatus MIB object.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the WSMAgentStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Active Subscribers attribute**

**Description**

The total number of active subscribers for this Application Domain.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
SPOOLERCOUNT or ACTSUB

**Polled Subscribers attribute**

**Description**  
The total number of Push mode subscribers for this Application Domain.

**Type**  
Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
POLLEDSPOOLERS or POLLSUB

**Records Seen attribute**

**Description**  
The total number of messages successfully enqueued since the WSM Agent was restarted.

**Type**  
Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
RECORDSSEEN or RSEEN

**Records Lost attribute**

**Description**  
The total number of messages dropped due to resource constraints since the WSM Agent was restarted.

**Type**  
Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
RECORDSLOST or RLOST

**Pending Records attribute**

**Description**  
The total number of messages currently in the queue for transactions which have not completed. This number is normally very low, and is approximately a product of the current transaction rate and external latency.

**Type**  
Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

PENDINGRECORDS or PENDRE

**Complete Records attribute**

**Description**

The total number of messages currently in the queue for completed transactions. This number is approximately a product of the current transaction rate and subscriber polling interval.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

COMPLETERECORDS or COMPLRE

**Memory Used (KB) attribute**

**Description**

The amount of memory (in kilobytes) used by this Agent for transaction records and buffered messages. This number is compared to the configured Max Memory property of the Agent to limit resource usage.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MEMORYUSEDKB or MEMOUSE

**Administrative State attribute**

**Description**

Identifies the administrative state of the configuration. To make inactive, set to disabled.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- enabled (1)
- disabled (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ADMINSTATE or ADMINST

**Comments attribute**

**Description**

Brief summary for user annotation.

**Type**

String

**Warehouse name**

USERSUMMARY or COMMENT

**Maximum Record Size (records) attribute****Description**

Maximum accounting record size.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MAXRECORDS or MAXRECO

**Maximum Memory Usage (KB) attribute****Description**

Maximum memory usage.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MAXMEMORY or MAXMEMO

**Capture Mode attribute****Description**

Select which messages to capture for further analysis. Because not all Web Services Management protocols can accommodate full message-capture, configure this property only if the spooler can forward full messages. Full message-capture incurs a performance penalty. Keep this in mind when performing load testing of the managed service.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- None (0)
- Faults only (1)
- All (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CAPTUREMODE or CAPMODE

**Buffering Mode attribute****Description**

Select the behavior of the Agent when there are no registered consumers of the transaction events.

**Type**

Integer (32-bit numeric property) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Discard (1)
- Buffer (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

BUFFERMODE or BUFFMOD

**Memory Usage (%) attribute**

**Description**

Usage of memory on the device.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MEMORYUSAGE or MEUSAGE

**Domain attribute: This attribute is a key attribute.**

**Description**

Name of the domain.

**Type**

String

**Warehouse name**

DOMAIN

**Device Host attribute**

**Description**

Hostname or IP address of the DataPower device.

**Type**

String

**Warehouse name**

DEVICE or SNMPHOSTSM

## **XC10 BatteryStatus attribute group**

This attribute group contains the battery status of the DataPower XC10 appliance. This a single-record attribute group.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the XC10 BatteryStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**  
TIMESTAMP

**Installation Date attribute**

**Description**

The date that the system battery was last marked as replaced. This will read 'Unavailable' on DataPower 9001 and 9002 systems, as they do not track battery status.

**Type**  
String

**Warehouse name**  
INSTALLATIONDATE or INSTALLATI

**Device attribute**

**Description**

Hostname or IP address of the DataPower appliance.

**Type**  
String

**Warehouse name**  
DEVICE

## **XC10 CPUUsage attribute group**

Provides CPU usage percentage information. Data gathered from MIB Object dpStatusCPUUsage.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the XC10 CPUUsage attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**  
String

**Warehouse name**  
NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**  
String

**Warehouse name**  
TIMESTAMP

**10 sec (%) attribute**

**Description**

The average CPU usage over the previous 10 seconds.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TENSECONDS

**min (%) attribute**

**Description**

The average CPU usage over the previous minute.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEMINUTE

**10 min (%) attribute****Description**

The average CPU usage over the previous 10 minutes.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TENMINUTES

**1 hour (%) attribute****Description**

The average CPU usage over the previous hour.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEHOUR

**1 day (%) attribute****Description**

The average CPU usage over the previous day.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

ONEDAY

**Device attribute****Description**

Hostname or IP address of the DataPower appliance.

Type  
String  
Warehouse name  
DEVICE

## XC10 EnvironmentalSensors attribute group

This attribute group contains the values of the environmental status collected from the sensor of the DataPower XC10 appliance. This is a single-record attribute group.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the XC10 EnvironmentalSensors attribute group:

**Node attribute: This attribute is a key attribute.**

#### Description

The managed system name of the agent.

#### Type

String

#### Warehouse name

NODE

### Timestamp attribute

#### Description

The local time at the agent when the data was collected.

#### Type

String

#### Warehouse name

TIMESTAMP

### System Temperature attribute

#### Description

(Not currently supported) System temperature.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

SYSTEMTEMP

### CPU1 Temperature attribute

#### Description

CPU1 temperature in Celsius.

#### Type

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

CPU1TEMP or CPU1TEMP

### CPU2 Temperature attribute

**Description**

CPU2 temperature in Celsius.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CPU2TEMP

**CPU1 Rpm attribute****Description**

(Not currently supported) CPU1 rpm.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CPU1RPM

**CPU2 Rpm attribute****Description**

(Not currently supported) CPU2 rpm

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CPU2RPM

**Chassis1 Rpm attribute****Description**

(Not currently supported) Chassis1 rpm

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CHASSIS1RPM or CHASSIS1RP

**Chassis2 Rpm attribute****Description**

(Not currently supported) Chassis2 rpm

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CHASSIS2RPM or CHASSIS2RP

**Chassis3 Rpm attribute****Description**

(Not currently supported) Chassis3 rpm

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CHASSIS3RPM or CHASSIS3RP

**Case Open attribute****Description**

Case Open

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Not Available (-1)
- yes (1)
- no (2)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

CASEOPEN

**Volt33 attribute****Description**

(Not currently supported) Voltage of volt33.

**Type**

String

**Warehouse name**

VOLT33

**Volt5 attribute****Description**

(Not currently supported) Voltage of volt5.

**Type**

String

**Warehouse name**

VOLT5

**Volt12 attribute****Description**

(Not currently supported) Voltage of volt12.

<b>Type</b>	String
<b>Warehouse name</b>	VOLT12
<b><u>Power Supply attribute</u></b>	
<b>Description</b>	Power supply status.
<b>Type</b>	Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined: <ul style="list-style-type: none"> <li>• Not Available (-1)</li> <li>• ok (1)</li> <li>• power-1-failure (2)</li> <li>• power-2-failure (3)</li> </ul> Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.
<b>Warehouse name</b>	POWERSUPPLY or POWERSUPPL
<b><u>Battery Install Date attribute</u></b>	
<b>Description</b>	Battery install date.
<b>Type</b>	String
<b>Warehouse name</b>	BATTERYINSTALLDATE or BATTERYINS
<b><u>Device attribute</u></b>	
<b>Description</b>	Hostname or IP address of the DataPower appliance.
<b>Type</b>	String
<b>Warehouse name</b>	DEVICE

## XC10 FirmwareVersion attribute group

This attribute group contains the firmware version status of the DataPower XC10 appliance. This a single-record attribute group.

### Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

### Attribute descriptions

The following list contains information about each attribute in the XC10 FirmwareVersion attribute group:

**Node attribute: This attribute is a key attribute.**

#### **Description**

The managed system name of the agent.

#### **Type**

String

#### **Warehouse name**

NODE

### **Timestamp attribute**

#### **Description**

The local time at the agent when the data was collected.

#### **Type**

String

	<b>Warehouse name</b>	TIMESTAMP
<b><u>Serial attribute</u></b>	<b>Description</b>	The serial number of the appliance. This number is unique to each appliance.
	<b>Type</b>	String
	<b>Warehouse name</b>	SERIAL
<b><u>Version attribute</u></b>	<b>Description</b>	The version of the firmware.
	<b>Type</b>	String
	<b>Warehouse name</b>	VERSION
<b><u>Build attribute</u></b>	<b>Description</b>	The build number of the firmware.
	<b>Type</b>	String
	<b>Warehouse name</b>	BUILD
<b><u>Build Date attribute</u></b>	<b>Description</b>	The date on which the firmware was built.
	<b>Type</b>	String
	<b>Warehouse name</b>	BUILDDATE
<b><u>Machine Type attribute</u></b>	<b>Description</b>	The IBM Machine Type of the appliance.
	<b>Type</b>	String
	<b>Warehouse name</b>	MACHINETYPE or MACHINETY
<b><u>Model Type attribute</u></b>	<b>Description</b>	The IBM Model Type of the appliance.
	<b>Type</b>	String
	<b>Warehouse name</b>	MODELTYPE
<b><u>Device attribute</u></b>	<b>Description</b>	Hostname or IP address of the DataPower appliance.
	<b>Type</b>	String
	<b>Warehouse name</b>	DEVICE

## **XC10 GridStatistics attribute group**

Data gathered from MIB Object gridStatsTable.

## Historical group

This attribute group is eligible for use with Tivoli Data Warehouse.

## Attribute descriptions

The following list contains information about each attribute in the XC10 GridStatistics attribute group:

**Node attribute:** This attribute is a key attribute.

### Description

The managed system name of the agent.

### Type

String

### Warehouse name

NODE

## **Timestamp attribute**

### Description

The local time at the agent when the data was collected.

### Type

String

### Warehouse name

TIMESTAMP

**Index attribute:** This attribute is a key attribute.

### Description

A unique value identifying the grid stats entry.

### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

### Warehouse name

INDEX or GRIDINDX

## **Grid Name attribute**

### Description

The name of the XC10 data cache these stats are for.

### Type

String

### Warehouse name

GRIDNAME

## **Transaction Time (Avg) attribute**

### Description

The average transaction time in milliseconds for this XC10 data cache.

### Type

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

### Warehouse name

AVGTRANTIME or GRIDAVGTRT

## **Throughput (Avg) attribute**

**Description**

The average throughput (transactions per second) for this XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

AVGTHRUPUT or GRIDAVGTHP

**Transaction Count attribute****Description**

The number of transactions for this XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TRANSCOUNT or GRIDTRANSC

**Transaction Time (max) attribute****Description**

The amount of time in milliseconds spent with the longest transaction against this XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MAXTRANSTIME or GRIDMAXTRT

**Transaction Time (min) attribute****Description**

The amount of time in milliseconds spent with the shortest transaction against this XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MINTRANSTIME or GRIDMINTRT

### Transaction Time (total) attribute

#### Description

The total amount of time in milliseconds spent processing transactions against this XC10 data cache on this XC10.

#### Type

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

#### Warehouse name

TOTALTRANSTIME or GRIDTOTTRT

### Device attribute

#### Description

Hostname or IP address of the DataPower appliance.

#### Type

String

#### Warehouse name

DEVICE

## **XC10 MapStatistics attribute group**

Data gathered from MIB Object mapStatsTable.

### **Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

### **Attribute descriptions**

The following list contains information about each attribute in the XC10 MapStatistics attribute group:

**Node attribute: This attribute is a key attribute.**

#### Description

The managed system name of the agent.

#### Type

String

#### Warehouse name

NODE

### Timestamp attribute

#### Description

The local time at the agent when the data was collected.

#### Type

String

#### Warehouse name

TIMESTAMP

**Index attribute: This attribute is a key attribute.**

#### Description

A unique value identifying the map stats entry.

#### Type

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
INDEX or MAPINDEX

**Grid Name attribute**

**Description**  
The name of the XC10 data cache these stats are for.

**Type**  
String

**Warehouse name**  
GRIDNAME

**Map Name attribute**

**Description**  
The name of the XC10 map these stats are for.

**Type**  
String

**Warehouse name**  
MAPNAME

**Hit Rate attribute**

**Description**  
The ratio of successful retrievals from a XC10 data cache map versus total attempted retrievals from a XC10 data cache map on this XC10.

**Type**  
Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
HITRATE or MAPHITRATE

**Total Hits attribute**

**Description**  
The total number of successful retrievals from a given map of a XC10 data cache on this XC10.

**Type**  
Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**  
TOTALHITS or MAPTOTHITS

**Total Gets attribute**

**Description**  
The total number of attempted retrievals from a given map of a XC10 data cache on this XC10.

**Type**  
Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALGETS or MAPTOTGETS

**Entries Count attribute**

**Description**

The current total number of entries in given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

NUMENTRIES or MAPNUMENTRY

**Entries Count (max) attribute**

**Description**

The largest amount of entries that have existed in a given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MAXNUMENTRIES or MAPMAXENTRY

**Entries Count (min) attribute**

**Description**

The smallest amount of entries that have existed in a given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MINNUMENTRIES or MAPMINENTRY

**Used Bytes attribute**

**Description**

The current total number of bytes used by a given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDBYTES or MAPUSEDBYT

**Used Bytes (max) attribute**

**Description**

The largest total number of bytes ever used by a given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MAXUSEDBYTES or MAPMAXBYT

**Used Bytes (min) attribute**

**Description**

The smallest total number of bytes ever used by a given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MINUSEDBYTES or MAPMINBYT

**Used KB attribute**

**Description**

The current total number of kilobytes used by a given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDKB or MAPUSEDKB

**Used KB (max) attribute**

**Description**

The largest total number of kilobytes ever used by a given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the

Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MAXUSEDKB or MAPMAXKB

**Used KB (min) attribute**

**Description**

The smallest total number of kilobytes ever used by a given map of a XC10 data cache on this XC10.

**Type**

Integer (64-bit counter) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

MINUSEDKB or MAPMINKB

**Device attribute**

**Description**

Hostname or IP address of the DataPower appliance.

**Type**

String

**Warehouse name**

DEVICE

## **XC10 MemoryStatus attribute group**

Provides memory usage information. Data gathered from MIB Object MemoryStatus.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the XC10 MemoryStatus attribute group:

**Node attribute: This attribute is a key attribute.**

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Total Memory (KB) attribute**

**Description**

The total memory of the system in kilobytes.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALMEMORYK or TOTALMEMK

**Used Memory (KB) attribute****Description**

The amount of memory that is currently in use. The used memory does not include any hold memory.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDMEMORYK or USEDMEMK

**Memory Usage (%) attribute****Description**

The instantaneous memory usage as a percentage of the total memory.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

PERCENTUSED or PERCENTUSE

**Free Memory (KB) attribute****Description**

The amount of memory that is currently not in use and is therefore available. The free memory value includes any hold memory that is not currently in use.

**Type**

Integer (64-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (9223372036854775807)
- Value Exceeds Minimum (-9223372036854775808)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FREEMEMORYK or FREEMEMK

**Total Memory (MB) attribute****Description**

The total memory of the system in megabytes.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

TOTALMEMORY or TOTALMEMOR

**Used Memory (MB) attribute****Description**

The amount of memory that is currently in use. The used memory does not include any hold memory.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

USEDMEMORY

**Free Memory (MB) attribute****Description**

The amount of memory that is currently not in use and is therefore available. The free memory value includes any hold memory that is not currently in use.

**Type**

Integer (32-bit gauge) with enumerated values. The strings are displayed in the Tivoli Enterprise Portal. The warehouse and queries return the values that are shown in parentheses. The following values are defined:

- Value Exceeds Maximum (2147483647)
- Value Exceeds Minimum (-2147483648)

Any other value is the value that is returned by the agent in the Tivoli Enterprise Portal.

**Warehouse name**

FREEMEMORY

**Device attribute****Description**

Hostname or IP address of the DataPower appliance.

**Type**

String

**Warehouse name**

DEVICE

**XC10 SystemUptime attribute group**

This attribute group contains the uptime status of the DataPower XC10 appliance. This a single-record attribute group.

**Historical group**

This attribute group is eligible for use with Tivoli Data Warehouse.

**Attribute descriptions**

The following list contains information about each attribute in the XC10 SystemUptime attribute group:

**Node attribute:** This attribute is a key attribute.

**Description**

The managed system name of the agent.

**Type**

String

**Warehouse name**

NODE

**Timestamp attribute**

**Description**

The local time at the agent when the data was collected.

**Type**

String

**Warehouse name**

TIMESTAMP

**Local Time attribute**

**Description**

The current local time of the appliance.

**Type**

Timestamp

**Warehouse name**

LOCTIME

**Uptime attribute**

**Description**

The total amount of time the appliance has been up since the last reload or reboot (format: n days hh:mm:ss). Note that a shutdown and reload resets this counter.

**Type**

String

**Warehouse name**

UPTIMEFMT

**Time Zone attribute**

**Description**

The name of the time zone currently in effect, as set on the Time Settings page.

**Type**

String

**Warehouse name**

TIMEZONE

**Timezone Specification attribute**

**Description**

The POSIX.1 timezone specification. See appliance time settings for more information.

**Type**

String

**Warehouse name**

TZSPEC

**Boot Uptime attribute**

**Description**

The total amount of time in seconds since the last reboot. Note that this counter is reset by a shutdown and reboot , but not by a shutdown and reload .

**Type**

String

**Warehouse name**

BOOTUPTIME or UPTIME0

**Device attribute**

**Description**

Hostname or IP address of the DataPower appliance.

Type  
String  
Warehouse name  
DEVICE

---

## Disk capacity planning for historical data

Disk capacity planning for a monitoring agent is a prediction of the amount of disk space to be consumed by the historical data in each attribute group that is collecting historical data. Required disk storage is an important factor when you are defining data collection rules and your strategy for historical data collection.

The Capacity planning for historical data table provides the following information, which is required to calculate disk space for this monitoring agent:

**Table** Table name as it is displayed in the warehouse database, if the attribute group is configured to be written to the warehouse. The table name listed here corresponds to the table name in “Attribute groups for the monitoring agent” on page 21.

### Attribute group

Name of the attribute group that is used to create the table in the warehouse database if it is short enough to fit in the table naming constraints of the database that is being used for the warehouse. The attribute group name listed here corresponds to the Warehouse table name in “Attribute groups for the monitoring agent” on page 21.

### Bytes per row (agent)

Estimate of the record length for each row or instance that is written to the agent disk for historical data collection. This estimate can be used for agent disk space planning purposes.

### Database bytes per row (warehouse)

Estimate of the record length for detailed records that are written to the warehouse database, if the attribute group is configured to be written to the warehouse. Detailed records are records that have been uploaded from the agent for long-term historical data collection. This estimate can be used for warehouse disk-space planning purposes.

### Aggregate bytes per row (warehouse)

Estimate of the record length for aggregate records that are written to the warehouse database, if the attribute group is configured to be written to the warehouse. Aggregate records are created by the Summarization agent for attribute groups that have been configured for summarization. This estimate can be used for warehouse disk-space planning purposes.

In addition to the information in the tables, you must know the number of rows of data that you plan to collect. An attribute group can have single or multiple rows of data, depending on the application environment that is being monitored. For example, if your attribute group monitors each processor in your computer and you have a dual processor computer, the number of rows is two.

**Attention:** The SystemLog attribute group can use extensive amounts of space. To better manage the space requirements of this attribute group, when you configure system logging on your DataPower appliance, make sure that only information that you want to be stored as historical data is sent to the agent. For more information, see steps 5 and 6 of the “Setting up syslog” topic in the IBM Tivoli Composite Application Manager Agent for WebSphere DataPower Appliance Installation and Configuration Guide.

**Restriction:** On 32 bit systems the agent cannot handle files larger than 2 gigabytes; therefore, if the historical data files or the syslog file get to be that big the agent stops. You must consider this restriction when configuring the system for historical data collection.

Table 1. Capacity planning for historical data logged by the DataPower agent

Table	Attribute group	Bytes per row (agent)	Database bytes per row (warehouse)	Aggregate bytes per row (warehouse)
KBN_AGENTSTATUS	AgentStatus	628	628	660
KBN_CPUUSAGE	CPUUsage	344	344	706
KBN_DOMAINMEMORYSTATUS	DomainsMemoryStatus	532	532	1124
KBN_DOMAINSTATUS	DomainStatus	1044	1044	1044
KBN_ETHERNETINTERFACE	EthernetInterface	498	498	812
KBN_FILESYSTEMSTATUS	FilesystemStatus	436	436	1212
KBN_FIRMWARESTATUS	FirmwareStatus	710	710	742
KBN_FIRMWAREVERSION	FirmwareVersion	564	564	596
KBN_HTTPCONNECTIONS	HTTPConnections	824	824	2956
KBN_HTTPMEAN TRANSACTIONTIME2	HTTPMeanTransactionTime2	628	628	1010
KBN_HTTPTRANSACTIONS2	HTTPTransactions2	628	628	1010
KBN_LOGNOTIFICATION	LogNotification	1378	1378	1410
KBN_LOGTARGETSTATUS	LogTargetStatus	872	872	1184
KBN_MEMORYSTATUS	MemoryStatus	400	400	1314
KBN_NETWORKRECEIVE DATATHROUGHPUT	NetworkReceive DataThroughput	388	388	770
KBN_NETWORKTRANSMIT DATATHROUGHPUT	NetworkTransmit DataThroughput	388	388	770
KBN_OBJECTSTATUS	ObjectStatus	876	876	908
KBN_SERVICEMEMORYSTATUS	ServicesMemoryStatus	648	648	1380
KBN_SERVICESSTATUS	ServicesStatus	642	642	674
KBN_SYSTEMLOG	SystemLog	2041	2041	3459
KBN_SYSTEMUPTIME	SystemUptime	869	869	992
KBN_SYSTEMUSAGE	SystemUsage	344	344	512
KBN_SYSTEMUSAGETABLE	SystemUsageTable	356	356	726
KBN_TCPSUMMARY	TCPSummary	412	412	1214
KBN_TCPTABLE	TCPTable	704	704	736
KBN_WSMAGENTSTATUS	WSMAgentStatus	760	760	858
KBN_XC10_BATTERYSTATUS	XC10_BatteryStatus	388	388	420
KBN_XC10_CPUUSAGE	XC10_CPUUsage	344	344	706
KBN_XC10_ENVIRONMENTAL SENSORS	XC10_EnvironmentalSensors	624	624	1316
KBN_XC10_FIRMWAREVERSION	XC10_FirmwareVersion	528	528	560
KBN_XC10_GRIDSTATISTICS	XC10_GridStatistics	508	508	750
KBN_XC10_MAPSTATISTICS	XC10_MapStatistics	680	680	1112
KBN_XC10_MEMORYSTATUS	XC10_MemoryStatus	368	368	940
KBN_XC10_SYSTEMUPTIME	XC10_SystemUptime	724	724	756

For more information about historical data collection, see “Managing historical data” in the *IBM Tivoli Monitoring Administrator’s Guide*.

---

## Chapter 3. Situations reference

A situation is a logical expression involving one or more system conditions. Situations are used to monitor the condition of systems in your network. You can manage situations from the Tivoli Enterprise Portal by using the Situation Editor or from the command-line interface using the tacmd commands for situations. You can manage private situations in the private configuration XML file.

### About situations

The monitoring agents that you use to monitor your system environment include a set of predefined situations that you can use as-is. You can also create new situations to meet your requirements.

Predefined situations contain attributes that check for system conditions common to many enterprises. Using predefined situations can improve the speed with which you can begin using the IBM Tivoli Composite Application Manager Agent for WebSphere DataPower Appliance. You can change the conditions or values being monitored by a predefined situation to the conditions or values best suited to your enterprise.

You can display predefined situations and create your own situations using the Situation editor. The Situation editor initially lists the situations associated with the Navigator item that you selected. When you click a situation name or create a situation, a panel opens with the following tabs:

#### Formula

Formula describing the condition being tested.

#### Distribution

List of managed systems (operating systems, subsystems, or applications) to which the situation can be distributed. All the DataPower agent managed systems are assigned by default.

#### Expert advice

Comments and instructions to be read in the event workspace.

#### Action

Command to be sent to the system.

**EIF** Customize forwarding of the event to an Event Integration Facility receiver. (Available when the Tivoli Enterprise Monitoring Server is configured to forward events.)

**Until** Options to close the event after a period of time, or when another situation becomes true.

### Additional information about situations

The *Tivoli Enterprise Portal User's Guide* contains more information about predefined and custom situations and how to use them to respond to alerts.

For a list of the predefined situations and information about each individual situation for this monitoring agent, see "Predefined situations."

---

## Predefined situations

The monitoring agent contains predefined situations, which are organized by Navigator item.

Agent level Navigator items

- DataPower Monitoring Agent
  - Not applicable

- DataPower Appliances Nodes
  - Not applicable
- DataPower XC10 Appliances Nodes
  - Not applicable

#### DataPower Appliances (DPS) subnode

- DataPower Appliances
  - Not applicable
- DataPower Events
  - KBN\_DP\_Battery\_Life\_End
  - KBN\_DP\_Power\_Fail
  - KBN\_DP\_Fan\_Slowed
  - KBN\_DP\_Fan\_Stopped
  - KBN\_DP\_Battery\_Missing
  - KBN\_DP\_Battery\_Fail
  - KBN\_DP\_Memory\_Full
  - KBN\_DP\_Throttle\_Low\_Memory
  - KBN\_DP\_Throttle\_Low\_Tempfile
  - KBN\_DP\_Throttle\_Low\_Free\_Ports
  - KBN\_DP\_Restart\_Low\_Memory
  - KBN\_DP\_Restart\_Lack\_Resource
  - KBN\_DP\_Restart\_Low\_Tempfile
  - KBN\_DP\_Restart\_Lack\_Port
  - KBN\_DP\_Restart\_Lack\_Pre\_QCode
  - KBN\_DP\_Restart\_Lack\_NmSp\_QCode
  - KBN\_DP\_Restart\_Lack\_Locl\_QCode
  - KBN\_DP\_Memory\_Recovered
  - KBN\_DP\_Tempfile\_Recovered
  - KBN\_DP\_System\_Invalid\_FS
  - KBN\_DP\_File\_Not\_Found
  - KBN\_DP\_System\_Buffer\_Too\_Small
  - KBN\_DP\_System\_IO\_Error
  - KBN\_DP\_System\_Out\_of\_Memory
  - KBN\_DP\_System\_QCode\_Low
  - KBN\_DP\_Restart\_Low\_File\_Desc
  - KBN\_DP\_Throttle\_Low\_File\_Desc
  - KBN\_DP\_Disk\_Space\_Insufficient
  - KBN\_DP\_Persist\_Store\_Down
  - KBN\_DP\_Persist\_Store\_Low
  - KBN\_DP\_HSM\_Uninitialized
  - KBN\_DP\_HSM\_Login\_Timeout
  - KBN\_DP\_HSM\_Login\_Failed
  - KBN\_DP\_HSM\_Problem
  - KBN\_DP\_No\_License
  - KBN\_DP\_Parser\_Out\_of\_Memory

- KBN\_DP\_Encodings\_Out\_of\_Memory
- KBN\_DP\_Stanzacfg\_Out\_of\_Memory
- KBN\_DP\_TFIM\_Out\_of\_Memory
- HTTP Connection
  - Not applicable
- MQ Connection
  - Not applicable
- Network
  - Not applicable
- SQL Connection
  - Not applicable
- System
  - KBN\_DP\_Service\_Down
  - KBN\_DP\_No\_Response
- System Log
  - KBN\_DP\_Restart
  - KBN\_DP\_Cert\_Expired
  - KBN\_DP\_Cert\_About\_To\_Expire
- Utilization
  - KBN\_DP\_CPU\_High
  - KBN\_DP\_Memory\_High
  - KBN\_DP\_System\_Load\_High
  - KBN\_DP\_Tempfile\_Space\_Low
  - KBN\_DP\_Unencryptfile\_Space\_Low
  - KBN\_DP\_Encryptfile\_Space\_Low
- Web Service
  - KBN\_DP\_WSM\_Memory\_High

#### DataPower XC10 Appliances (DPC) subnode

- DataPower XC10 Appliances
  - Not applicable
- XC10 Statistics
  - Not applicable
- XC10 System
  - Not applicable
- XC10 Utilization
  - KBN\_DPC\_CPU\_High

---

## Situation descriptions

Each situation description provides information about the situation that you can use to monitor the condition of systems in your network.

The situation descriptions provide the following information:

### Description

Information about the conditions that the situation tests.

**Formula**

Syntax that contains one or more logical expressions that describe the conditions for the situation to monitor.

**Distribution**

Whether the situation is automatically distributed to instances of the agent or is available for manual distribution.

**Run at startup**

Whether the situation starts monitoring when the agent starts.

**Sampling interval**

Number of seconds that elapse between one sample of data that the monitoring agent collects for the server and the next sample.

**Situation persistence**

Whether the conditions specified in the situation evaluate to "true" for the defined number of occurrences in a row before the situation is raised. The default of one means that no persistence-checking takes place.

**Severity**

Severity of the predefined events: Warning, Informational, or Critical.

**Clearing conditions**

Controls when a true situation closes: after a period, when another situation is true, or whichever occurs first if both are selected.

## DataPower Monitoring Agent Navigator item

No predefined situations are included for this Navigator item.

## DataPower Appliances Nodes Navigator item

No predefined situations are included for this Navigator item.

## DataPower XC10 Appliances Nodes Navigator item

No predefined situations are included for this Navigator item.

## DataPower Appliances subnode

The situation descriptions are organized by the Navigator item to which the situations are relevant.

## DataPower Appliances Navigator item

No predefined situations are included for this Navigator item.

## DataPower Events Navigator item

### KBN\_DP\_Battery\_Life\_End situation

**Description**

Installed battery is nearing end of life.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a2000e' *UNTIL (  
*TTL 0:00:15:00 )
```

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Power\_Fail situation****Description**

Power supply failure.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x2220001' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Fan\_Slowed situation****Description**

Internal cooling fan has slowed.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x2240002' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Fan\_Stopped situation**

**Description**

Internal cooling fan has stopped.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x2220003' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Battery\_Missing situation****Description**

System battery missing.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x2220004' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Battery\_Fail situation****Description**

System battery failed.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x2220005' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Memory\_Full situation****Description**

Memory full.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x330002' *UNTIL ( *TTL
0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Throttle\_Low\_Memory situation****Description**

Throttling connections due to low memory.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a40001' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Throttle\_Low\_Tempfile situation**

**Description**

Throttling connections due to low temporary file space.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a40005' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Throttle\_Low\_Free\_Ports situation****Description**

Throttling connections due to low number of free ports.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a40008' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Restart\_Low\_Memory situation****Description**

Restart due to low memory.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30002' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Minor

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Restart\_Lack\_Resource situation****Description**

Restart due to resource shortage timeout.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30003' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Minor

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Restart\_Low\_Tempfile situation****Description**

Restart due to low temporary file space.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30006' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Minor

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Restart\_Lack\_Port situation**

**Description**

Restart due to port shortage.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30009' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Minor

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Restart\_Lack\_Pre\_QCode situation****Description**

Restart due to prefix QCode shortage.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a3000b' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Minor

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Restart\_Lack\_NmSp\_QCode situation****Description**

Restart due to namespace QCode shortage.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a3000c' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Minor

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Restart\_Lack\_Locl\_QCode situation****Description**

Restart due to local QCode shortage.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a3000d' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Minor

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Memory\_Recovered situation****Description**

Memory usage recovered above threshold.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a50004' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Harmless

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Tempfile\_Recovered situation**

**Description**

Temporary file space recovered above threshold.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a50007' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Harmless

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_System\_Invalid\_FS situation****Description**

Invalid virtual file system.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30011' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_File\_Not\_Found situation****Description**

File not found.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30012' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_System\_Buffer\_Too\_Small situation****Description**

Buffer too small.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30013' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_System\_IO\_Error situation****Description**

I/O error.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30014' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_System\_Out\_of\_Memory situation**

**Description**

Out of memory.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30015' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_System\_QCode\_Low situation****Description**

Number of free QCode is low.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a10016' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Restart\_Low\_File\_Desc situation****Description**

Restart due to low file descriptor.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a30017' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Minor

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Throttle\_Low\_File\_Desc situation****Description**

Throttling due to low number of available file descriptors

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1a40018' *UNTIL (
*TTL 0:00:15:00 )
```

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Disk\_Space\_Insufficient situation****Description**

Maximum allowed disk space for gateway is reached.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x3120015' *UNTIL (
*TTL 0:00:15:00 )
```

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Persist\_Store\_Down situation**

**Description**

B2B persistence store down.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x3120018' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Persist\_Store\_Low situation****Description**

Insufficient persistence store space on raid volume.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x3120025' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_HSM\_Uninitialized situation****Description**

hardware security module (HSM) is not initialized.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1b20002' *UNTIL (  
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_HSM\_Login\_Timeout situation****Description**

HSM PED login timed out.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1b20003' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_HSM\_Login\_Failed situation****Description**

HSM PED login failed.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1b20004' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_HSM\_Problem situation**

**Description**

HSM password login failed.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1b20008' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_No\_License situation****Description**

Failed to access DataPower license.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x300030' *UNTIL ( *TTL
0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Fatal

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Parser\_Out\_of\_Memory situation****Description**

Out of memory while parsing XML.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x30002' *UNTIL ( *TTL
0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Encodings\_Out\_of\_Memory situation****Description**

Out of memory while converting between encodings.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1230002' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Stanzacfg\_Out\_of\_Memory situation****Description**

Out of memory.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x1730001' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_TFIM\_Out\_of\_Memory situation**

**Description**

Out of memory.

The situation is evaluated for the table.

**Formula**

```
*IF *VALUE KBN_LOGNOTIFICATION.NotificationEventCode *EQ '0x2830001' *UNTIL (
*TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**HTTP Connection Navigator item**

No predefined situations are included for this Navigator item.

**MQ Connection Navigator item**

No predefined situations are included for this Navigator item.

**Network Navigator item**

No predefined situations are included for this Navigator item.

**SQL Connection Navigator item**

No predefined situations are included for this Navigator item.

**System Navigator item****KBN\_DP\_Service\_Down situation****Description**

Configuration object is failure or in error.

The situation is evaluated for each distinct value of Name.

**Formula**

```
*IF *VALUE KBN_OBJECTSTATUS.AdminState *EQ 'enabled' *AND *VALUE
KBN_OBJECTSTATUS.OpState *EQ 'down' *AND *VALUE KBN_OBJECTSTATUS.EventCode *NE
'0x00000000'
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Warning

**Clearing conditions**

The situation clears when the condition becomes false.

**KBN\_DP\_No\_Response situation****Description**

DataPower appliance is not responding to the requests from agent

The situation is evaluated for each distinct value of the CLASS attribute.

**Formula**

```
*IF ( ( *VALUE KBN_DPS_PERFORMANCE_OBJECT_STATUS.Error_Code *EQ
NO_RESPONSE_RECEIVED *AND *VALUE KBN_DPS_PERFORMANCE_OBJECT_STATUS.Object_Status
*EQ ACTIVE *AND *VALUE KBN_DPS_PERFORMANCE_OBJECT_STATUS.Object_Type *EQ SNMP
*AND *VALUE KBN_DPS_PERFORMANCE_OBJECT_STATUS.Query_Name *EQ 'SystemUptime' ) *OR
( *VALUE KBN_DPS_PERFORMANCE_OBJECT_STATUS.Error_Code *EQ TIMEOUT *AND *VALUE
KBN_DPS_PERFORMANCE_OBJECT_STATUS.Object_Type *EQ CUSTOM *AND *VALUE
KBN_DPS_PERFORMANCE_OBJECT_STATUS.Query_Name *EQ 'SystemUptime' ) )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 2.

**Error conditions**

Critical

**Clearing conditions**

The situation clears when the condition becomes false.

**System Log Navigator item****KBN\_DP\_Restart situation****Description**

DataPower appliance is about to be restart.

The situation is evaluated for each distinct value of the LOGTIME attribute.

**Formula**

```
*IF *VALUE KBN_SYSTEMLOG.Category *EQ 'system' *AND ( ( ( *SCAN
KBN_SYSTEMLOG.Message *EQ 'System about to reboot' ) *OR ( *SCAN
KBN_SYSTEMLOG.Message *EQ 'System about to shutdown' ) *OR ( *SCAN
KBN_SYSTEMLOG.Message *EQ 'System about to reload' ) ) ) *UNTIL ( *TTL 0:00:15:00
)
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Cert\_Expired situation****Description**

The certificate is expired.

The situation is evaluated for each distinct value of the LOGTIME attribute.

**Formula**

```
*IF ( ( *VALUE KBN_SYSTEMLOG.Category *EQ 'cert-monitor' *AND *SCAN
KBN_SYSTEMLOG.Message *EQ 'is expired' *AND *STR KBN_SYSTEMLOG.Message *EQ 1, '
Certificate' ) *OR ( *VALUE KBN_SYSTEMLOG.Category *EQ 'crypto' *AND *SCAN
KBN_SYSTEMLOG.Message *EQ 'is expired' *AND *STR KBN_SYSTEMLOG.Message *EQ 1, '
certificate' ) ) *UNTIL ( *TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Critical

**Clearing conditions**

This situation clears after 0:00:15:00.

**KBN\_DP\_Cert\_About\_To\_Expire situation****Description**

The certificate is about to expire.

The situation is evaluated for each distinct value of the LOGTIME attribute.

**Formula**

```
*IF *VALUE KBN_SYSTEMLOG.Category *EQ 'cert-monitor' *AND *SCAN
KBN_SYSTEMLOG.Message *EQ 'is about to expire' *AND *STR KBN_SYSTEMLOG.Message
*EQ 1, ' Certificate' *UNTIL ( *TTL 0:00:15:00 )
```

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

None. Data is analyzed when it becomes available.

**Situation persistence**

Not Applicable

**Error conditions**

Warning

**Clearing conditions**

This situation clears after 0:00:15:00.

## Utilization Navigator item

### KBN\_DP\_CPU\_High situation

#### Description

The percentage of CPU time usage is too high.

The situation is evaluated for the table.

#### Formula

\*IF \*VALUE KBN\_CPUUSAGE.tenMinutes \*GE 90

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

#### Distribution

This situation is available for distribution.

#### Run at startup

No

#### Sampling interval

5 minutes

#### Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

#### Error conditions

Critical

#### Clearing conditions

The situation clears when the condition becomes false.

### KBN\_DP\_Memory\_High situation

#### Description

DataPower device high memory usage.

The situation is evaluated for the table.

#### Formula

\*IF \*VALUE KBN\_MEMORYSTATUS.Usage \*GE 80

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

#### Distribution

This situation is available for distribution.

#### Run at startup

No

#### Sampling interval

5 minutes

#### Situation persistence

The number of times the conditions of the situation must occur for the situation to be true is 1.

#### Error conditions

Critical

#### Clearing conditions

The situation clears when the condition becomes false.

### KBN\_DP\_System\_Load\_High situation

#### Description

DataPower device high system load.

The situation is evaluated for the table.

#### Formula

\*IF \*VALUE KBN\_SYSTEMUSAGE.Load \*GE 80

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

#### Distribution

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Critical

**Clearing conditions**

The situation clears when the condition becomes false.

**KBN\_DP\_Tempfile\_Space\_Low situation****Description**

Low temporary file system storage space available.

The situation is evaluated for the table.

**Formula**

\*IF \*VALUE KBN\_FILESYSTEMSTATUS.TemporaryUsage \*GE 80

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Critical

**Clearing conditions**

The situation clears when the condition becomes false.

**KBN\_DP\_Unencryptfile\_Space\_Low situation****Description**

Low unencrypted file system storage space available.

The situation is evaluated for the table.

**Formula**

\*IF \*VALUE KBN\_FILESYSTEMSTATUS.UnencryptedUsage \*GE 80

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Critical

**Clearing conditions**

The situation clears when the condition becomes false.

**KBN\_DP\_Encryptfile\_Space\_Low situation**

**Description**

Low encrypted file system storage space available.

The situation is evaluated for the table.

**Formula**

\*IF \*VALUE KBN\_FILESYSTEMSTATUS.EncryptedUsage \*GE 80

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Critical

**Clearing conditions**

The situation clears when the condition becomes false.

**Web Service Navigator item****KBN\_DP\_WSM\_Memory\_High situation****Description**

DataPower device high WSM Agent memory usage.

The situation is evaluated for each distinct value of the DOMAIN attribute.

**Formula**

\*IF \*VALUE KBN\_WSMAGENTSTATUS.MemoryUsage \*GE 80

See “Attributes in each attribute group” on page 24 for descriptions of the attributes in this formula.

**Distribution**

This situation is available for distribution.

**Run at startup**

No

**Sampling interval**

5 minutes

**Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

**Error conditions**

Critical

**Clearing conditions**

The situation clears when the condition becomes false.

**DataPower XC10 Appliances subnode**

The situation descriptions are organized by the Navigator item to which the situations are relevant.

**DataPower XC10 Appliances Navigator item**

No predefined situations are included for this Navigator item.

## **XC10 Statistics Navigator item**

No predefined situations are included for this Navigator item.

## **XC10 System Navigator item**

No predefined situations are included for this Navigator item.

## **XC10 Utilization Navigator item**

### **KBN\_DPC\_CPU\_High situation**

#### **Description**

The percentage of CPU time usage is too high.

The situation is evaluated for the table.

#### **Formula**

\*IF \*VALUE KBN\_XC10\_CPUUSAGE.TenMinutes \*GE 90

See "Attributes in each attribute group" on page 24 for descriptions of the attributes in this formula.

#### **Distribution**

This situation is available for distribution.

#### **Run at startup**

No

#### **Sampling interval**

5 minutes

#### **Situation persistence**

The number of times the conditions of the situation must occur for the situation to be true is 1.

#### **Error conditions**

Critical

#### **Clearing conditions**

The situation clears when the condition becomes false.

---

## Chapter 4. Event mapping

The Tivoli Event Integration Facility (EIF) interface is used to forward situation events to Tivoli Netcool/OMNIBus or Tivoli Enterprise Console®.

EIF events specify an event class, and the event data is specified as name-value pairs that identify the name of an event slot and the value for the slot. An event class can have subclasses. IBM Tivoli Monitoring provides the base event class definitions and a set of base slots that are included in all monitoring events. Agents extend the base event classes to define subclasses that include agent-specific slots. For DataPower agent events, the event classes correspond to the agent attribute groups, and the agent-specific slots correspond to the attributes in the attribute group.

The situation editor in the Tivoli Enterprise Portal can be used to perform custom mapping of data to EIF slots instead of using the default mapping described in this topic. For more information about EIF slot customization, see the *Tivoli Enterprise Portal User's Guide*.

Tivoli Enterprise Console requires that event classes and their slots are defined in BAROC (Basic Recorder of Objects in C) files. Each agent provides a BAROC file that contains event class definitions for the agent and is installed on the Tivoli Enterprise Monitoring Server in the TECLIB directory (`install_dir/cms/TECLIB` for Windows systems and `install_dir/tables/TEMS_hostname/TECLIB` for UNIX systems) when application support for the agent is installed. The BAROC file for the agent and the base BAROC files provided with Tivoli Monitoring must also be installed onto the Tivoli Enterprise Console. For details, see "Setting up event forwarding to Tivoli Enterprise Console" in the *IBM Tivoli Monitoring Installation and Setup Guide*.

Each of the event classes is a child of KBN\_Base and is defined in the `kbn.baroc` (version 07.10.01) file. The KBN\_Base event class can be used for generic rules processing for any event from the IBM Tivoli Composite Application Manager Agent for WebSphere DataPower Appliance.

For events that are generated by situations in the AgentStatus attribute group, events are sent by using the ITM\_KBN\_AGENTSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- subnodename: STRING
- device: STRING
- user: STRING
- port: INTEGER
- port\_enum: STRING
- type: INTEGER
- type\_enum: STRING
- kbn\_status: INTEGER
- kbn\_status\_enum: STRING
- responsecode: REAL
- responsecode\_enum: STRING
- responsemsg: STRING

For events that are generated by situations in the CPUUsage attribute group, events are sent by using the ITM\_KBN\_CPUUSAGE event class. This event class contains the following slots:

- node: STRING

- timestamp: STRING
- snmphostcpu: STRING
- tenseconds: INTEGER
- tenseconds\_enum: STRING
- oneminute: INTEGER
- oneminute\_enum: STRING
- tenminutes: INTEGER
- tenminutes\_enum: STRING
- onehour: INTEGER
- onehour\_enum: STRING
- oneday: INTEGER
- oneday\_enum: STRING

For events that are generated by situations in the DataPower Appliances Nodes attribute group, events are sent by using the ITM\_KBN\_DATAPOWER\_APPLIANCES\_NODES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- subnode\_msn: STRING
- subnode\_affinity: STRING
- subnode\_type: STRING
- subnode\_resource\_name: STRING
- subnode\_version: STRING

For events that are generated by situations in the DataPower XC10 Appliances Nodes attribute group, events are sent by using the ITM\_KBN\_DATAPOWER\_XC10\_APPLIANCES\_NODES event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- subnode\_msn: STRING
- subnode\_affinity: STRING
- subnode\_type: STRING
- subnode\_resource\_name: STRING
- subnode\_version: STRING

For events that are generated by situations in the DomainsMemoryStatus attribute group, events are sent by using the ITM\_KBN\_DOMAINSMEMORYSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- domain: STRING
- current: REAL
- current\_enum: STRING
- oneminute: REAL
- oneminute\_enum: STRING
- fiveminutes: REAL
- fiveminutes\_enum: STRING

- tenminutes: REAL
- tenminutes\_enum: STRING
- onehour: REAL
- onehour\_enum: STRING
- twelvehours: REAL
- twelvehours\_enum: STRING
- oneday: REAL
- oneday\_enum: STRING
- lifetime: REAL
- lifetime\_enum: STRING
- documentcaches: REAL
- documentcaches\_enum: STRING
- stylesheetcaches: REAL
- stylesheetcaches\_enum: STRING
- device: STRING

For events that are generated by situations in the DomainStatus attribute group, events are sent by using the ITM\_KBN\_DOMAINSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- name: STRING
- saveneeded: INTEGER
- saveneeded\_enum: STRING
- traceenabled: INTEGER
- traceenabled\_enum: STRING
- debugenabled: INTEGER
- debugenabled\_enum: STRING
- probeenabled: INTEGER
- probeenabled\_enum: STRING
- diagenabled: INTEGER
- diagenabled\_enum: STRING
- currentcommand: STRING
- quiescestate: STRING
- device: STRING

For events that are generated by situations in the DPC Performance Object Status attribute group, events are sent by using the ITM\_KBN\_DPC\_PERFORMANCE\_OBJECT\_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query\_name: STRING
- object\_name: STRING
- object\_type: INTEGER
- object\_type\_enum: STRING
- object\_status: INTEGER
- object\_status\_enum: STRING

- error\_code: INTEGER
- error\_code\_enum: STRING
- last\_collection\_start: STRING
- last\_collection\_start\_enum: STRING
- last\_collection\_finished: STRING
- last\_collection\_finished\_enum: STRING
- last\_collection\_duration: REAL
- average\_collection\_duration: REAL
- average\_collection\_duration\_enum: STRING
- refresh\_interval: INTEGER
- number\_of\_collections: INTEGER
- cache\_hits: INTEGER
- cache\_misses: INTEGER
- cache\_hit\_percent: REAL
- intervals\_skipped: INTEGER

For events that are generated by situations in the DPS Performance Object Status attribute group, events are sent by using the ITM\_KBN\_DPS\_PERFORMANCE\_OBJECT\_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query\_name: STRING
- object\_name: STRING
- object\_type: INTEGER
- object\_type\_enum: STRING
- object\_status: INTEGER
- object\_status\_enum: STRING
- error\_code: INTEGER
- error\_code\_enum: STRING
- last\_collection\_start: STRING
- last\_collection\_start\_enum: STRING
- last\_collection\_finished: STRING
- last\_collection\_finished\_enum: STRING
- last\_collection\_duration: REAL
- average\_collection\_duration: REAL
- average\_collection\_duration\_enum: STRING
- refresh\_interval: INTEGER
- number\_of\_collections: INTEGER
- cache\_hits: INTEGER
- cache\_misses: INTEGER
- cache\_hit\_percent: REAL
- intervals\_skipped: INTEGER

For events that are generated by situations in the EthernetInterface attribute group, events are sent by using the ITM\_KBN\_ETHERNETINTERFACE event class. This event class contains the following slots:

- node: STRING

- timestamp: STRING
- snmphostethernet: STRING
- name: INTEGER
- name\_enum: STRING
- ip: STRING
- macaddress: STRING
- kbn\_status: INTEGER
- kbn\_status\_enum: STRING
- negotiate: INTEGER
- negotiate\_enum: STRING
- mode: REAL
- mode\_enum: STRING
- mtu: INTEGER
- mtu\_enum: STRING
- rxkbytes: REAL
- rxkbytes\_enum: STRING
- rxpackets: REAL
- rxpackets\_enum: STRING
- rxerrors: REAL
- rxerrors\_enum: STRING
- rxdrops: REAL
- rxdrops\_enum: STRING
- txkbytes: REAL
- txkbytes\_enum: STRING
- txpackets: REAL
- txpackets\_enum: STRING
- txerrors: REAL
- txerrors\_enum: STRING
- txdrops: REAL
- txdrops\_enum: STRING
- collisions: REAL
- collisions\_enum: STRING

For events that are generated by situations in the FilesystemStatus attribute group, events are sent by using the ITM\_KBN\_FILESYSTEMSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostfilesys: STRING
- freeencrypted: REAL
- freeencrypted\_enum: STRING
- usedencrypted: REAL
- usedencrypted\_enum: STRING
- totalencrypted: REAL
- totalencrypted\_enum: STRING
- freeunencrypted: REAL

- freeunencrypted\_enum: STRING
- usedunencrypted: REAL
- usedunencrypted\_enum: STRING
- totalunencrypted: REAL
- totalunencrypted\_enum: STRING
- freetemporary: REAL
- freetemporary\_enum: STRING
- usedtemporary: REAL
- usedtemporary\_enum: STRING
- totaltemporary: REAL
- totaltemporary\_enum: STRING
- freeinternal: REAL
- freeinternal\_enum: STRING
- usedinternal: REAL
- usedinternal\_enum: STRING
- totalinternal: REAL
- totalinternal\_enum: STRING
- encryptedusage: INTEGER
- encryptedusage\_enum: STRING
- unencryptedusage: INTEGER
- unencryptedusage\_enum: STRING
- temporaryusage: INTEGER
- temporaryusage\_enum: STRING
- internalusage: INTEGER
- internalusage\_enum: STRING

For events that are generated by situations in the FirmwareStatus attribute group, events are sent by using the ITM\_KBN\_FIRMWARESTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmpostfirmwarest: STRING
- type: INTEGER
- type\_enum: STRING
- version: STRING
- build: STRING
- builddatestring: STRING
- installdatestring: STRING
- builddate: STRING
- installdate: STRING
- bootcount: STRING

For events that are generated by situations in the FirmwareVersion attribute group, events are sent by using the ITM\_KBN\_FIRMWAREVERSION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmpostfirmwarever: STRING

- serial: STRING
- version: STRING
- build: STRING
- builddatestring: STRING
- watchdogbuild: STRING
- installeddpos: STRING
- runningdpos: STRING
- xmlaccelerator: STRING
- machinetype: STRING
- modeltype: STRING
- builddate: STRING

For events that are generated by situations in the HTTPConnections attribute group, events are sent by using the ITM\_KBN\_HTTPCONNECTIONS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphosthttpcon: STRING
- xmlmanager: STRING
- xmlmanagerindex: INTEGER
- xmlmanagerindex\_enum: STRING
- reqtensec: REAL
- reqtensec\_enum: STRING
- reqonemin: REAL
- reqonemin\_enum: STRING
- reqtenmin: REAL
- reqtenmin\_enum: STRING
- reqonehr: REAL
- reqonehr\_enum: STRING
- reqoneday: REAL
- reqoneday\_enum: STRING
- reusetensec: REAL
- reusetensec\_enum: STRING
- reuseonemin: REAL
- reuseonemin\_enum: STRING
- reusetenmin: REAL
- reusetenmin\_enum: STRING
- reuseonehr: REAL
- reuseonehr\_enum: STRING
- reuseoneday: REAL
- reuseoneday\_enum: STRING
- createtensec: REAL
- createtensec\_enum: STRING
- createonemin: REAL
- createonemin\_enum: STRING
- createtenmin: REAL

- createtenmin\_enum: STRING
- createonehr: REAL
- createonehr\_enum: STRING
- createoneday: REAL
- createoneday\_enum: STRING
- returntensec: REAL
- returntensec\_enum: STRING
- returnonemin: REAL
- returnonemin\_enum: STRING
- returntenmin: REAL
- returntenmin\_enum: STRING
- returnonehr: REAL
- returnonehr\_enum: STRING
- returnoneday: REAL
- returnoneday\_enum: STRING
- offertensec: REAL
- offertensec\_enum: STRING
- offeronemin: REAL
- offeronemin\_enum: STRING
- offerntenmin: REAL
- offerntenmin\_enum: STRING
- offeronehr: REAL
- offeronehr\_enum: STRING
- offeroneday: REAL
- offeroneday\_enum: STRING
- destroytensec: REAL
- destroytensec\_enum: STRING
- destroyonemin: REAL
- destroyonemin\_enum: STRING
- destroytenmin: REAL
- destroytenmin\_enum: STRING
- destroyonehr: REAL
- destroyonehr\_enum: STRING
- destroyoneday: REAL
- destroyoneday\_enum: STRING
- domain: STRING

For events that are generated by situations in the HTTPMeanTransactionTime2 attribute group, events are sent by using the ITM\_KBN\_HTTPMEANTRANSACTIONTIME2 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphosthttpmeantranstime: STRING
- serviceclass: REAL
- serviceclass\_enum: STRING
- proxy: STRING

- tenseconds: REAL
- tenseconds\_enum: STRING
- oneminute: REAL
- oneminute\_enum: STRING
- tenminutes: REAL
- tenminutes\_enum: STRING
- onehour: REAL
- onehour\_enum: STRING
- oneday: REAL
- oneday\_enum: STRING
- domain: STRING

For events that are generated by situations in the HTTPTransactions2 attribute group, events are sent by using the ITM\_KBN\_HTTPTRANSACTIONS2 event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphosthttptrans: STRING
- serviceclass: REAL
- serviceclass\_enum: STRING
- proxy: STRING
- tenseconds: REAL
- tenseconds\_enum: STRING
- oneminute: REAL
- oneminute\_enum: STRING
- tenminutes: REAL
- tenminutes\_enum: STRING
- onehour: REAL
- onehour\_enum: STRING
- oneday: REAL
- oneday\_enum: STRING
- domain: STRING

For events that are generated by situations in the LogNotification attribute group, events are sent by using the ITM\_KBN\_LOGNOTIFICATION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostlog: STRING
- enterprise\_oid: STRING
- source\_address: STRING
- generic\_trap: REAL
- generic\_trap\_enum: STRING
- specific\_trap: INTEGER
- specific\_trap\_enum: STRING
- notificationtype: REAL
- notificationtype\_enum: STRING
- notificationseverity: INTEGER

- notificationseverity\_enum: STRING
- notificationtime: STRING
- notificationtext: STRING
- notificationobject: STRING
- notificationobjectname: STRING
- notificationtransid: INTEGER
- notificationtransid\_enum: STRING
- notificationdomain: STRING
- notificationeventcode: STRING
- notificationtime1: STRING
- transid: REAL
- transid\_enum: STRING

For events that are generated by situations in the LogTargetStatus attribute group, events are sent by using the ITM\_KBN\_LOGTARGETSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- name: STRING
- kbn\_status: INTEGER
- kbn\_status\_enum: STRING
- memory: REAL
- memory\_enum: STRING
- processed: REAL
- processed\_enum: STRING
- dropped: REAL
- dropped\_enum: STRING
- pending: REAL
- pending\_enum: STRING
- error: STRING
- appliance: STRING
- domain: STRING

For events that are generated by situations in the MemoryStatus attribute group, events are sent by using the ITM\_KBN\_MEMORYSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostmemory: STRING
- usage: INTEGER
- usage\_enum: STRING
- totalmemoryk: REAL
- totalmemoryk\_enum: STRING
- usedmemoryk: REAL
- usedmemoryk\_enum: STRING
- freememoryk: REAL
- freememoryk\_enum: STRING
- reqmemoryk: REAL

- reqmemoryk\_enum: STRING
- xg4usagek: REAL
- xg4usagek\_enum: STRING
- holdmemoryk: REAL
- holdmemoryk\_enum: STRING
- totalmemory: INTEGER
- totalmemory\_enum: STRING
- usedmemory: INTEGER
- usedmemory\_enum: STRING
- freememory: INTEGER
- freememory\_enum: STRING
- reqmemory: INTEGER
- reqmemory\_enum: STRING
- xg4usage: INTEGER
- xg4usage\_enum: STRING
- holdmemory: INTEGER
- holdmemory\_enum: STRING

For events that are generated by situations in the MQConnections attribute group, events are sent by using the ITM\_KBN\_MQCONNECTIONS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- queuemanager: STRING
- domain: STRING
- frontactive: REAL
- frontactive\_enum: STRING
- backactive: REAL
- backactive\_enum: STRING
- totalactive: REAL
- totalactive\_enum: STRING
- idleconn: REAL
- idleconn\_enum: STRING
- totalconn: REAL
- totalconn\_enum: STRING
- totalconnlmt: REAL
- totalconnlmt\_enum: STRING

For events that are generated by situations in the NetworkReceiveDataThroughput attribute group, events are sent by using the ITM\_KBN\_NETWORKRECEIVEDATATHROUGHPUT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostnetrecvdatatp: STRING
- type: INTEGER
- type\_enum: STRING
- name: STRING

- tenseconds: REAL
- tenseconds\_enum: STRING
- oneminute: REAL
- oneminute\_enum: STRING
- tenminutes: REAL
- tenminutes\_enum: STRING
- onehour: REAL
- onehour\_enum: STRING
- oneday: REAL
- oneday\_enum: STRING
- tenseconds2: REAL
- tenseconds2\_enum: STRING
- oneminute2: REAL
- oneminute2\_enum: STRING
- tenminutes2: REAL
- tenminutes2\_enum: STRING
- onehour2: REAL
- onehour2\_enum: STRING
- oneday2: REAL
- oneday2\_enum: STRING

For events that are generated by situations in the NetworkTransmitDataThroughput attribute group, events are sent by using the ITM\_KBN\_NETWORKTRANSMITDATATHROUGHPUT event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostnettransdatatp: STRING
- type: INTEGER
- type\_enum: STRING
- name: STRING
- tenseconds: REAL
- tenseconds\_enum: STRING
- oneminute: REAL
- oneminute\_enum: STRING
- tenminutes: REAL
- tenminutes\_enum: STRING
- onehour: REAL
- onehour\_enum: STRING
- oneday: REAL
- oneday\_enum: STRING
- tenseconds2: REAL
- tenseconds2\_enum: STRING
- oneminute2: REAL
- oneminute2\_enum: STRING
- tenminutes2: REAL
- tenminutes2\_enum: STRING

- onehour2: REAL
- onehour2\_enum: STRING
- oneday2: REAL
- oneday2\_enum: STRING

For events that are generated by situations in the ObjectStatus attribute group, events are sent by using the ITM\_KBN\_OBJECTSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostobject: STRING
- kbn\_class: REAL
- kbn\_class\_enum: STRING
- opstate: INTEGER
- opstate\_enum: STRING
- adminstate: INTEGER
- adminstate\_enum: STRING
- name: STRING
- eventcode: STRING
- errorcode: STRING
- configstate: INTEGER
- configstate\_enum: STRING
- domain: STRING

For events that are generated by situations in the Performance Object Status attribute group, events are sent by using the ITM\_KBN\_PERFORMANCE\_OBJECT\_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- query\_name: STRING
- object\_name: STRING
- object\_type: INTEGER
- object\_type\_enum: STRING
- object\_status: INTEGER
- object\_status\_enum: STRING
- error\_code: INTEGER
- error\_code\_enum: STRING
- last\_collection\_start: STRING
- last\_collection\_start\_enum: STRING
- last\_collection\_finished: STRING
- last\_collection\_finished\_enum: STRING
- last\_collection\_duration: REAL
- average\_collection\_duration: REAL
- average\_collection\_duration\_enum: STRING
- refresh\_interval: INTEGER
- number\_of\_collections: INTEGER
- cache\_hits: INTEGER

- cache\_misses: INTEGER
- cache\_hit\_percent: REAL
- intervals\_skipped: INTEGER

For events that are generated by situations in the ServicesMemoryStatus attribute group, events are sent by using the ITM\_KBN\_SERVICESMEMORYSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- serviceclass: INTEGER
- serviceclass\_enum: STRING
- servicename: STRING
- current: REAL
- current\_enum: STRING
- oneminute: REAL
- oneminute\_enum: STRING
- fiveminutes: REAL
- fiveminutes\_enum: STRING
- tenminutes: REAL
- tenminutes\_enum: STRING
- onehour: REAL
- onehour\_enum: STRING
- twelvehours: REAL
- twelvehours\_enum: STRING
- oneday: REAL
- oneday\_enum: STRING
- lifetime: REAL
- lifetime\_enum: STRING
- domain: STRING
- device: STRING

For events that are generated by situations in the ServicesStatus attribute group, events are sent by using the ITM\_KBN\_SERVICESSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmhosts-services: STRING
- localip: STRING
- localport: INTEGER
- localport\_enum: STRING
- serviceclass: REAL
- serviceclass\_enum: STRING
- servicename: STRING
- domain: STRING

For events that are generated by situations in the SQLConnections attribute group, events are sent by using the ITM\_KBN\_SQLCONNECTIONS event class. This event class contains the following slots:

- node: STRING

- timestamp: STRING
- datasource: STRING
- domain: STRING
- activeconn: REAL
- activeconn\_enum: STRING
- idleconn: REAL
- idleconn\_enum: STRING
- totalconn: REAL
- totalconn\_enum: STRING
- totalconnlmt: REAL
- totalconnlmt\_enum: STRING

For events that are generated by situations in the SystemLog attribute group, events are sent by using the ITM\_KBN\_SYSTEMLOG event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphost: STRING
- logfilename: STRING
- logtime: STRING
- messagesource: STRING
- messageheader: STRING
- level: STRING
- category: STRING
- domain: STRING
- servicetype: STRING
- servicename: STRING
- transid: REAL
- transid\_enum: STRING
- transactionstate: STRING
- client: STRING
- message: STRING
- url: STRING
- requestheaderread: INTEGER
- requestheaderread\_enum: STRING
- requestheadersent: INTEGER
- requestheadersent\_enum: STRING
- bufferrequest: INTEGER
- bufferrequest\_enum: STRING
- outputcreated: INTEGER
- outputcreated\_enum: STRING
- outputsent: INTEGER
- outputsent\_enum: STRING
- requestpayloadprocessorready: INTEGER
- requestpayloadprocessorready\_enum: STRING
- requestpayloadprocessorinputread: INTEGER

- requestpayloadprocessorinputread\_enum: STRING
- readresponseheader: INTEGER
- readresponseheader\_enum: STRING
- sentresponseheader: INTEGER
- sentresponseheader\_enum: STRING
- bufferresponse: INTEGER
- bufferresponse\_enum: STRING
- responsecreated: INTEGER
- responsecreated\_enum: STRING
- responsesent: INTEGER
- responsesent\_enum: STRING
- responsepayloadprocessorready: INTEGER
- responsepayloadprocessorready\_enum: STRING
- responsepayloadprocessorinputread: INTEGER
- responsepayloadprocessorinputread\_enum: STRING
- backendconnstarted: INTEGER
- backendconnstarted\_enum: STRING
- backendconnfinished: INTEGER
- backendconnfinished\_enum: STRING
- requestprocappliance: INTEGER
- requestprocappliance\_enum: STRING
- requesttranstobackend: INTEGER
- requesttranstobackend\_enum: STRING
- processinbackend: INTEGER
- processinbackend\_enum: STRING
- responseprocappliance: INTEGER
- responseprocappliance\_enum: STRING
- responsetranstoclient: INTEGER
- responsetranstoclient\_enum: STRING

For events that are generated by situations in the SystemUptime attribute group, events are sent by using the ITM\_KBN\_SYSTEMUPTIME event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostuptime: STRING
- time: STRING
- uptime: STRING
- uptimes: REAL
- uptimes\_enum: STRING
- timezone: STRING
- tzspec: STRING
- uptimereload: STRING
- uptimereboot: STRING

For events that are generated by situations in the SystemUsage attribute group, events are sent by using the ITM\_KBN\_SYSTEMUSAGE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostsysusage: STRING
- interval: REAL
- interval\_enum: STRING
- load: INTEGER
- load\_enum: STRING
- worklist: REAL
- worklist\_enum: STRING

For events that are generated by situations in the SystemUsageTable attribute group, events are sent by using the ITM\_KBN\_SYSTEMUSAGETABLE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphostsystable: STRING
- taskname: INTEGER
- taskname\_enum: STRING
- load: INTEGER
- load\_enum: STRING
- worklist: REAL
- worklist\_enum: STRING
- cpu: INTEGER
- cpu\_enum: STRING
- memory: INTEGER
- memory\_enum: STRING
- filecount: REAL
- filecount\_enum: STRING

For events that are generated by situations in the Take Action Status attribute group, events are sent by using the ITM\_KBN\_TAKE\_ACTION\_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- action\_name: STRING
- action\_status: INTEGER
- action\_status\_enum: STRING
- action\_app\_return\_code: INTEGER
- action\_message: STRING
- action\_instance: STRING
- action\_results: STRING
- action\_command: STRING
- action\_node: STRING
- action\_subnode: STRING
- action\_id: INTEGER
- action\_type: INTEGER
- action\_type\_enum: STRING
- action\_owner: STRING

For events that are generated by situations in the TCPSummary attribute group, events are sent by using the ITM\_KBN\_TCPSUMMARY event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphosttcpsum: STRING
- established: REAL
- established\_enum: STRING
- synsent: REAL
- synsent\_enum: STRING
- synreceived: REAL
- synreceived\_enum: STRING
- finwait1: REAL
- finwait1\_enum: STRING
- finwait2: REAL
- finwait2\_enum: STRING
- timewait: REAL
- timewait\_enum: STRING
- closed: REAL
- closed\_enum: STRING
- closewait: REAL
- closewait\_enum: STRING
- lastack: REAL
- lastack\_enum: STRING
- listen: REAL
- listen\_enum: STRING
- closing: REAL
- closing\_enum: STRING

For events that are generated by situations in the TCPTable attribute group, events are sent by using the ITM\_KBN\_TCPTABLE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- snmphosttcptable: STRING
- localip: STRING
- localport: INTEGER
- localport\_enum: STRING
- remoteip: STRING
- remoteport: INTEGER
- remoteport\_enum: STRING
- state: REAL
- state\_enum: STRING
- servicedomain: STRING
- serviceclass: REAL
- serviceclass\_enum: STRING
- servicename: STRING

For events that are generated by situations in the Thread Pool Status attribute group, events are sent by using the ITM\_KBN\_THREAD\_POOL\_STATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- thread\_pool\_size: INTEGER
- thread\_pool\_size\_enum: STRING
- thread\_pool\_max\_size: INTEGER
- thread\_pool\_max\_size\_enum: STRING
- thread\_pool\_active\_threads: INTEGER
- thread\_pool\_active\_threads\_enum: STRING
- thread\_pool\_avg\_active\_threads: REAL
- thread\_pool\_avg\_active\_threads\_enum: STRING
- thread\_pool\_min\_active\_threads: INTEGER
- thread\_pool\_min\_active\_threads\_enum: STRING
- thread\_pool\_max\_active\_threads: INTEGER
- thread\_pool\_max\_active\_threads\_enum: STRING
- thread\_pool\_queue\_length: INTEGER
- thread\_pool\_queue\_length\_enum: STRING
- thread\_pool\_avg\_queue\_length: REAL
- thread\_pool\_avg\_queue\_length\_enum: STRING
- thread\_pool\_min\_queue\_length: INTEGER
- thread\_pool\_min\_queue\_length\_enum: STRING
- thread\_pool\_max\_queue\_length: INTEGER
- thread\_pool\_max\_queue\_length\_enum: STRING
- thread\_pool\_avg\_job\_wait: REAL
- thread\_pool\_avg\_job\_wait\_enum: STRING
- thread\_pool\_total\_jobs: INTEGER
- thread\_pool\_total\_jobs\_enum: STRING

For events that are generated by situations in the WSMAgentStatus attribute group, events are sent by using the ITM\_KBN\_WSMAGENTSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- spoolercount: INTEGER
- spoolercount\_enum: STRING
- polledspoolers: INTEGER
- polledspoolers\_enum: STRING
- recordsseen: INTEGER
- recordsseen\_enum: STRING
- recordslost: INTEGER
- recordslost\_enum: STRING
- pendingrecords: INTEGER
- pendingrecords\_enum: STRING
- completerecords: INTEGER
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For events that are generated by situations in the XC10 BatteryStatus attribute group, events are sent by using the ITM\_KBN\_XC10\_BATTERYSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- installationdate: STRING
- device: STRING

For events that are generated by situations in the XC10 CPUUsage attribute group, events are sent by using the ITM\_KBN\_XC10\_CPUUSAGE event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- tenseconds: INTEGER
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- onehour: INTEGER
- onehour\_enum: STRING
- oneday: INTEGER
- oneday\_enum: STRING
- device: STRING

For events that are generated by situations in the XC10 EnvironmentalSensors attribute group, events are sent by using the ITM\_KBN\_XC10\_ENVIRONMENTALSENSORS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- systemtemp: INTEGER
- systemtemp\_enum: STRING

- cpu11temp: INTEGER
- cpu11temp\_enum: STRING
- cpu2temp: INTEGER
- cpu2temp\_enum: STRING
- cpu1rpm: INTEGER
- cpu1rpm\_enum: STRING
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- cpu2rpm\_enum: STRING
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- caseopen: INTEGER
- caseopen\_enum: STRING
- volt33: STRING
- volt5: STRING
- volt12: STRING
- powersupply: INTEGER
- powersupply\_enum: STRING
- batteryinstalldate: STRING
- device: STRING

For events that are generated by situations in the XC10 FirmwareVersion attribute group, events are sent by using the ITM\_KBN\_XC10\_FIRMWAREVERSION event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- serial: STRING
- version: STRING
- build: STRING
- builddate: STRING
- machinetype: STRING
- modeltype: STRING
- device: STRING

For events that are generated by situations in the XC10 GridStatistics attribute group, events are sent by using the ITM\_KBN\_XC10\_GRIDSTATISTICS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- index: REAL
- index\_enum: STRING
- gridname: STRING
- avgtrantime: REAL
- avgtrantime\_enum: STRING

- avgthruput: REAL
- avgthruput\_enum: STRING
- transcount: REAL
- transcount\_enum: STRING
- maxtranstime: REAL
- maxtranstime\_enum: STRING
- mintranstime: REAL
- mintranstime\_enum: STRING
- totaltranstime: REAL
- totaltranstime\_enum: STRING
- device: STRING

For events that are generated by situations in the XC10 MapStatistics attribute group, events are sent by using the ITM\_KBN\_XC10\_MAPSTATISTICS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- index: REAL
- index\_enum: STRING
- gridname: STRING
- mapname: STRING
- hitrate: INTEGER
- hitrate\_enum: STRING
- totalhits: REAL
- totalhits\_enum: STRING
- totalgets: REAL
- totalgets\_enum: STRING
- numentries: REAL
- numentries\_enum: STRING
- maxnumentries: REAL
- maxnumentries\_enum: STRING
- minnumentries: REAL
- minnumentries\_enum: STRING
- usedbytes: REAL
- usedbytes\_enum: STRING
- maxusedbytes: REAL
- maxusedbytes\_enum: STRING
- minusedbytes: REAL
- minusedbytes\_enum: STRING
- usedkb: REAL
- usedkb\_enum: STRING
- maxusedkb: REAL
- maxusedkb\_enum: STRING
- minusedbk: REAL
- minusedbk\_enum: STRING
- device: STRING

For events that are generated by situations in the XC10 MemoryStatus attribute group, events are sent by using the ITM\_KBN\_XC10\_MEMORYSTATUS event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- totalmemoryk: REAL
- totalmemoryk\_enum: STRING
- usedmemoryk: REAL
- usedmemoryk\_enum: STRING
- percentused: INTEGER
- percentused\_enum: STRING
- freememoryk: REAL
- freememoryk\_enum: STRING
- totalmemory: INTEGER
- totalmemory\_enum: STRING
- usedmemory: INTEGER
- usedmemory\_enum: STRING
- freememory: INTEGER
- freememory\_enum: STRING
- device: STRING

For events that are generated by situations in the XC10 SystemUptime attribute group, events are sent by using the ITM\_KBN\_XC10\_SYSTEMUPTIME event class. This event class contains the following slots:

- node: STRING
- timestamp: STRING
- loctime: STRING
- uptimefmt: STRING
- timezone: STRING
- tzspec: STRING
- bootuptime: STRING
- device: STRING



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## Appendix. ITCAM for Applications documentation library

Various publications are relevant to the use of ITCAM for Applications.

For information about how to access and use the publications, see *Using the publications* ([http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/topic/com.ibm.itm.doc\\_6.3/common/using\\_publications.htm](http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/topic/com.ibm.itm.doc_6.3/common/using_publications.htm)).

To find publications from the previous version of a product, click **Previous versions** under the name of the product in the **Contents** pane.

Documentation for this product is in the ITCAM for Applications Information Center ([http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/topic/com.ibm.itcama.doc\\_7.2.1/welcome\\_apps721.html](http://publib.boulder.ibm.com/infocenter/tivihelp/v24r1/topic/com.ibm.itcama.doc_7.2.1/welcome_apps721.html)):

- Quick Start Guide
- Offering Guide
- Download instructions
- Links to Prerequisites
- Installation and Configuration Guide for each agent
- Link to Reference information for each agent
- Link to Troubleshooting Guide for each agent

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### Prerequisite publications

To use the information about the agents effectively, you must have some prerequisite knowledge.

See the following information at the IBM Tivoli Monitoring Information Center (<http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/index.jsp>) to gain prerequisite knowledge:

- *IBM Tivoli Monitoring Administrator's Guide*
- *IBM Tivoli Monitoring Installation and Setup Guide*
- *IBM Tivoli Monitoring High Availability Guide for Distributed Systems*
- IBM Tivoli Monitoring: Installation and Configuration Guides for the following agents: Operating System agents and Warehouse agents
- IBM Tivoli Monitoring: User's Guides for the following agents: Agentless OS monitors, Log file agent, System p agents, Systems Director base agent
- *IBM Tivoli Monitoring Agent Builder User's Guide*
- *IBM Tivoli Monitoring Command Reference*
- *IBM Tivoli Monitoring: Messages*
- *IBM Tivoli Monitoring Troubleshooting Guide*
- IBM Tivoli Monitoring: References for the following agents: Operating System agents and Warehouse agents
- IBM Tivoli Monitoring: Troubleshooting Guides for the following agents: Operating System agents and Warehouse agents
- *Tivoli Enterprise Portal User's Guide*

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### Related publications

The publications in related information centers provide useful information.

See the following information centers, which you can find by accessing Tivoli Documentation Central (<https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/Tivoli%20Documentation%20Central>):

- Tivoli Monitoring
- Tivoli Application Dependency Discovery Manager
- Tivoli Business Service Manager
- Tivoli Common Reporting
- Tivoli Enterprise Console
- Tivoli Netcool/OMNIBus

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## Tivoli Monitoring Community on Service Management Connect

Service Management Connect (SMC) is a repository of technical information that is organized by communities.

Access Service Management Connect at <https://www.ibm.com/developerworks/servicemanagement>.

For information about Tivoli products, see the Application Performance Management community (<http://www.ibm.com/developerworks/servicemanagement/apm/index.html>).

Connect, learn, and share with Service Management professionals. Get access to developers and product support technical experts who provide their perspectives and expertise. You can use SMC for these purposes:

- Become involved with transparent development, an ongoing, open engagement between other users and IBM developers of Tivoli products. You can access early designs, sprint demonstrations, product roadmaps, and prerelease code.
- Connect one-on-one with the experts to collaborate and network about Tivoli and the (enter your community name here) community.
- Read blogs to benefit from the expertise and experience of others.
- Use wikis and forums to collaborate with the broader user community.

---

## Other sources of documentation

You can obtain additional technical documentation about monitoring products from other sources.

See the following sources of technical documentation about monitoring products:

- IBM Integrated Service Management Library (<http://www.ibm.com/software/brandcatalog/ismlibrary/>) is an online catalog that contains integration documentation as well as other downloadable product extensions.
- IBM Redbook publications (<http://www.redbooks.ibm.com/>) include Redbooks® publications, Redpapers, and Redbooks technotes that provide information about products from platform and solution perspectives.
- Technotes (<http://www.ibm.com/support/entry/portal/software>), which are found through the IBM Software Support website, provide the latest information about known product limitations and workarounds.

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