

Using Profile Reporting

Small Programming Enhancement for
CL/SUPERSESSION®

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Profile Reporting

Introduction

Profile Reporting is an interactive panel-driven tool, written in SSPL, that allows an administrator to view many profiles on the same panel.

This SPE describes using the Profile Reporting facility to report on

- COMMON, SUPERSESSION, and WINDOW segments residing in the table database in table *.*.COMMON.PROFILE for all user, group, and global profiles
- those NAM variables found on the CL/SUPERSESSION Main Menu Options pull-down menu for the Update Personal Information panel
- the total of triggers and/or sessions defined for each user or group profile
- last-access date, time, and terminal ID information for each user in the table database

Installation considerations

Profile Reporting only reports on the profiles of the CL/SUPERSESSION region in which it is installed. If you are running multiple CL/SUPERSESSION regions, you must define the extract process in each region on which a report is to be issued.

This Profile Reporting SPE requires approximately 100 blocks of DASD space and 12 directory blocks in the <thilev>.TLSPNLS dataset. Multi-language environments require an additional 27 blocks of DASD space and 6 directory blocks for each language (based on a blocksize of 8880).

Implementation

To install the Profile Reporting facility, apply PTF QLS1273. It automatically installs the language-dependent PTFs, based on the FMIDs currently installed in your CSI. These are:

QLS1278	English
QLS1279	French
QLS1280	German
QLS1281	French Canadian
QLS1282	Italian

After you apply QLS1273 and at least one of the language-dependent PTFs, follow the customization instructions in the SMP/E HOLDDATA file for PTF QLS1273.

PTF Modifications

QLS1273 consists of the following additions and changes:

- KLSSTART** Now contains the **NTD EVERY 10:00 NTD KLSLOGDQ** command to start the access logging facility. This member is found in `<thilev>.TLSCMDS`. Incorporate this change into your `<rhilev>.RLSCMDS` run-time library.
- KLSPREXU** A new `<thilev>.TLSPARM` member that controls data extraction for the user common profiles. KLSPREXU is shipped with a standard set of variables to be extracted. If you need to modify it, copy KLSPREXU into your `<rhilev>.RLSPARM` library and make your changes there.
- KLSPREXG** A new `<thilev>.TLSPARM` member that controls data extraction for the group common profiles. KLSPREXG is shipped with a standard set of variables to be extracted. If you need to modify it, copy KLSPREXG into your `<rhilev>.RLSPARM` library and make your changes there.
- KLSUINIE** Modified to attach dialog KLSLOG when a user signs onto CL/SUPERSESSION.
- KLSADMMM** Modified to handle a new option on the Administrator Menu.
- KLSLOG** A new dialog that queues messages to an IPC queue.
- KLSLOGDQ** A new dialog that processes the messages queued by KLSLOG and updates SYSTEM.ACCESS.TABLE.
- KLSPREXT** A new dialog that extracts the profiles data as specified by TLVPARM(KLSPREXU) and TLVPARM(KLSPREXG).
Note: You *must* run this dialog before any data can be presented by the Profile Reporting facility.

Step	Action
2	<p>On the Administrator Menu, select Profile Reporting.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <pre> Action Locate View Mask Sort Print Info Help ----- Profile Reporting - Users table More: + ----- Userid VUPDFLT VUPAPLST VUPADMIN VUPSESSN VUPTRIGN LASTDATE ----- GLOBAL ----- ----- Y 5 38 ----- ACAP17 ----- ----- ----- 32 0 ACAP18 GWONLY GWAPLST ----- 30 17 ACAP24 ----- ----- ----- 0 0 ACGL16 ----- ----- ----- 1 0 ACGL17 ----- ----- ----- 1 0 ADCH01 ----- ----- ----- 26 18 ADCH02 ----- ----- ----- 26 18 ADGM10 ----- ----- ----- 0 0 ADMG06 ----- ----- ----- 26 24 ADNY12 ----- ----- ----- 26 24 ADNY13 ----- ----- ----- 26 25 ADOUA ----- ----- ----- 0 0 ADPR02 ----- ----- ----- 27 26 ADVG01 ----- ----- ----- 26 24 AFERG ----- ----- ----- 28 5 AKAN ----- ----- ----- 9 0 ALORI ----- ----- ----- 0 0 ASANC ----- ----- ----- 0 0 ASTOY ----- ----- ----- 0 0 ATERM379 ----- ----- ----- 0 0 ----- Command ==> Enter F1=Help F8=Fwd F11=Users/Groups F12=Cancel </pre> </div> <p>Result: Profile Reporting is invoked and the Profile Reporting - Users Table appears.</p> <p>When you invoke this panel from the Administrator Menu, the data displays by user ID in alphanumeric order. If you later change the presentation of the data by using the Sort action, that change remains in effect for the life of the session.</p>

Alternate access method

You can also use the fast path method to access Profile Reporting. To save steps, type the mnemonic of a selection on the pull-down menu. For example, Profile Reporting is the third selection on the Administrator Menu. Its mnemonic is **P**. To select Profile Reporting directly from the CL/SUPERSESSION Main Menu:

1. Type **MP** or **M3** in the home position on the action bar.
The M refers to Administrator and the P or 3 refers to Profile Reporting.
2. Press Enter.

Result: The Profile Reporting - Users table displays.

The Profile Reporting tables

The GLOBAL profile values always display on the top of the panel. Only the overriding values are shown for each of the user and group profiles. The variables displayed are the first 6 variables found in the user profiles extract control member TLVPARM(KLSPREXU) and in the group profile extract control member TLVPARM(KLSPREXG). You can modify the variables and their order by using the View pull-down menu (discussed in “Viewing variables” on page 14).

The following indicators may appear to the left of a profile:

- Asterisk (*)** Indicates that the profile has been modified after the currently-displayed data was extracted.
- Hyphen (-)** Indicates that the profile has been deleted after the currently-displayed data was extracted.

These indicators are removed after the next time you run the extract dialog KLSPREXT.

Color coding

Attributes such as color and the right caret (>) are used in Profile Reporting panels to identify the source level of a variable. On a color terminal, colors are used as follows:

- Pink** Data entered at the user level. When a value is blank, reverse video is used to indicate that a delta exists in the profile.
- Yellow** Data entered at the group level. When a value is blank, reverse video is used to indicate that a delta exists in the profile.

On a monochrome terminal:

- When viewing a users table, a right caret (>) displays to the left of values that are at the group level; an underscore (_) displays to the left of a blank value at the user level.
- When viewing a group table, a right caret (>) displays to the left of blank values only.

Note: If you are using 3270 emulation hardware and software on a personal computer, various panel attributes (such as color, highlight, underline, and reverse video) may appear significantly different from the way they appear on an actual 3279 terminal. You may have to change definitions in your 3270 emulator to achieve desired color mapping. Refer to the appropriate manuals or consult your system administrator.

Function Keys

Only the function keys that are available for a panel are displayed. For example, panels with data that may continue over several screens display the backward and forward function keys, F7 and F8, while single-screen panels do not.

The CL/SUPERSESSION function keys perform as described in the *Operator's Guide* with the following exceptions:

- F11 Users/Groups.** Allows you to switch from the users table to the groups table and back (toggle).
- F5 Repeat Locate.** Allows you to repeat a locate to find the next occurrence of the selected criteria. F5 appears at the bottom of the Profile Reporting - Users table (or Group table) *only* if you have entered a value on the Locate pull-down menu.

Ellipsis

An ellipsis (...) following a selection indicates that further information is available after you make the selection. You can then make selections from another menu or add data to complete the task.

Action codes

A description of the action codes follows.

Code	Description
S Admin functions for selected profile	Invokes the administration dialogs for the selected profile. If you modify a profile, an asterisk (*) appears to the left of that profile when you return to Profile Reporting.
M Send message	Sends a message to a selected user. If the selected user is ready to receive messages, dialog KLSRMS&vsplang is called and the selected user's user ID is added to the Userid field. This action is only available from the Profile Reporting - Users table.
A View application list	Views application lists. This action is only available when a value is displayed in the VGPAPLST or VUPAPLST field (for example, GWONLY and GWAPLST , displayed for ACAP18 in the Profile Reporting - Users table on page 8). When an application is selected, the content of the corresponding TLVPARM member is displayed. Note: If you create an APPLIST name different from the actual member residing in TLVPARM by issuing the APPLIST command <i>with</i> the ID parameter, using the View action code produces message CS922. For more information, see the APPLIST command parameters in the <i>Operator's Guide</i> .
U View users within group	Switches from the groups table panel to the users table panel. The entries displayed are the user IDs that belong to the specified group. This action is only available on the Profile Reporting - Groups table.
D Delete Common/Trigger/Session/NAM	Deletes selected profiles. Note: The delete action also deletes the NAM entries for the selected profile.

Locating values

When you select **Locate** on the action bar, the Locate pull-down menu displays.

```
+-----+
|                                     |
|               Profile Reporting - Locate               |
| Type a value on one field and press                    |
| ENTER                                                  |
|                                                       |
| Userid  :                                             |
| VUPDFLT :                                             |
| VUPAPLST :                                           |
| VUPADMIN :                                           |
| VUPTRIGN :                                           |
| VUPSESSN :                                           |
| LASTDATE :                                           |
|                                                       |
| Command ==>                                         |
| Enter F1=Help F12=Cancel                             |
|                                                       |
+-----+
```

Use the Locate menu to locate certain values on specific fields. If you select Locate on a user's table, **Userid** appears on this menu; if on a group table, **Group** appears. The other variables shown are those displayed on the table from which you selected Locate. If needed, you can use the View choice to select different variables on which Locate can operate.

Type your value next to the variable of your choice and press Enter.

Result: You are returned to the Profile Reporting table where a search begins for the selected variable only, starting from the top of the table.

When search criteria is established, F5 appears on the bottom of the table. A message informs you if the end of data is reached and the value has not been found. You can then press F5 to resume the search from the top of the table.

Note: You can use Locate to search for a single value in only one variable field at a time.

Viewing variables

When you select **View** on the action bar, the View pull-down menu displays.

```
+-----+
|                                     |
|               Profile Reporting - View Selection               |
|                                     |
| Select which variables you want to view by entering the order |
| next to them. Valid values are from 1 to 6.                  |
|                                     |
| VUPDFLT : 1   VUPAPLST : 2   VUPUNAME : 3   VUPUDATA : 4   VSPULOC : 5 |
| VSPUPHON : 6   VSPUINFO :      VUPADMIN :      VUPTRIGN :      VUPSESSN : |
| VUPPRT  :      VUPAUTHD :      VUPAUTHP :      VUPAUTHR :      VUPAUTHS : |
| VUPAUTHT :      VUPAUTHU :      VUPINITD :      VUPTOINT :      VUPWSSDN : |
| VSPUNAME :      VUPFETCP :      VUPFETSM :      VUPFETVS :      VUPFETDT : |
| LASTDATE :      LASTTIME :      LASTTERM : |
|                                     |
|                                     |
|                                     |
|                                     |
| Command ==> |
| Enter F1=Help F12=Cancel |
|                                     |
+-----+
```

Use the View menu to

- specify which variables appear on the table panel
- control the order in which variables display
- determine which variables will be available on other pull-down menus

All variables selected in TLVPARM(KLSPREXU) and TLVPARM(KLSPREXG) appear. The first 6 variable names default to position 1–6. You can select the variables that you want to display and the order in which they appear by typing numerals 1–6 in the variable name fields of your choice and pressing Enter.

Result: The table panel appears with the variable names presented in sequence, starting with the name you designated **1**.

The variables you select on this menu will appear on all other action bar pull-down menus.

Note: The View menu does not control the key variables **Userid** and **Groupid**. **Userid** always appears on the top of the first column when Profile Reporting is displaying information for users' profiles; **Groupid** always appears when groups profile information is displayed.

You can obtain a description of any variable name by placing the cursor to the left of the variable and pressing F1. To obtain a description of all variable names displayed, place the cursor to the left of a blank line and press F1.

Masking values

When you select **Mask** on the action bar, the Mask pull-down menu displays.

```
+-----+
|               Profile Reporting - Mask               |
|                                                       |
| Type a mask argument on one field                    |
| and press ENTER                                       |
|                                                       |
| An asterisk can be used at the end of                |
| the mask argument                                    |
|                                                       |
| Userid  :                                             |
| VUPDFLT :                                             |
| VUPAPLST :                                           |
| VUPUNAME :                                           |
| VUPUDATA :                                           |
| VSPULOC :                                             |
| VSPUPHON :                                           |
|                                                       |
| Command ==>                                         |
| Enter F1=Help F12=Cancel                             |
+-----+
```

Use the Mask menu to display a table subset. You can perform masking on

- a variable that has been previously selected on the View menu
- only one variable at a time

Mask a variable by typing a mask argument in the variable name field and pressing Enter.

Result: All rows matching the mask argument appear.

If you append an asterisk (*) at the end of the mask argument, all values starting with the argument display; if not, only the values that are equal to the argument display.

Sorting values

When you select **Sort** on the action bar, the Sort pull-down menu displays.

```
+-----+
|                                     |
|               Profile Reporting - Sort               |
|                                     |
| Select the variable on which the sort is to be     |
| performed with a "/" and specify the sort parameters |
| if required.                                       |
|                                     |
| Userid   : _                                     |
| VUPDFLT  : _                                     |
| VUPAPLST : _                                     |
| VUPUNAME : _                                     |
| VUPUDATA : _                                     |
| VSPULOC  : _                                     |
| VSPUPHON : _                                     |
|                                     |
| Order    : _      (Descending : D, Ascending : A)  |
|                                     |
|                                     |
| Type     : _      (Binary : B, Character : C, Numeric : N) |
|                                     |
|                                     |
|                                     |
| Command ==>                                       |
| Enter  F1=Help  F12=Cancel                         |
|                                     |
+-----+
```

Use the Sort menu to specify a sort order for

- a variable that was previously selected on the View menu
- only one variable at a time

Sort by

1. typing a slash (/) in the variable field on which the sort is to be performed
2. specifying the order: ascending (the default) or descending
3. specifying the type: character (the default), binary, or numeric

and pressing Enter.

Result: The current profile table appears in the sort order that was specified.

Note: If you specify LASTDATE as the sort criteria, LASTTIME is appended to the sort.

Printing the displayed table

When you select **Print** on the action bar, the Print pull-down menu displays.

```
+-----+
|                                     |
|               Profile Reporting - Print               |
|-----|-----|-----|
| Variables  Length  Alignment |
|                                     |
|                                     | (L - C - R) |
| Userid    :    8      L      |
| VUPDFLT   :    8      L      |
| VUPAPLST  :    8      L      |
| VUPUNAME  :   30      L      |
| VUPUDATA  :   38      L      |
| VSPULOC   :   34      L      |
| VSPUPHON  :   19      L      |
|-----|-----|-----|
| Send report to : (Select with a "/" ) |
|-----|-----|-----|
| _ SYSOUT destination :          (Def. : LOCAL) Class : (Def. : A) |
| _ PDS :                               Member : |
|                                     Replace Member : (Y/N)(Def.:N) |
|-----|-----|-----|
| Logical record length (LRECL) : ___ (Usually 80 or 133) |
|-----|-----|-----|
| Command ==> |
| Enter F1=Help F12=Cancel |
|-----|-----|-----|
+-----+
```

Use the Print menu to print the content of the table being displayed to SYSOUT or a partitioned dataset.

Print the table by

1. specifying the length and alignment of each field. Alignment values are generated when you access the menu, but you can change them. To ensure proper placement of the variable name on the header of the report to be generated, you can only modify variables that have data values greater than 8. Similarly, you cannot enter values that are less than 8.
2. typing a slash (/) in the appropriate field
3. adding the following information to the menu:

If you select SYSOUT:

- a. Specify the class (the default is A)
- b. Specify the destination (the default is LOCAL)

If you select PDS:

- a. Specify the dataset name
- b. Specify the member
- c. Specify whether or not you want to replace an existing member

4. pressing Enter to print

Capturing Data

Introduction

The data displayed during Profile Reporting is derived from an extract program that runs as a non-terminal dialog (NTD). To generate and capture that data, you must issue the NTD command along with the extraction dialog name.

KLSPREXT dialog

To collect data, issue the following:

```
NTD KLSPREXT 'FULL'
```

where:

NTD Is the CT/Engine command

KLSPREXT Is the extraction dialog that collects data from the table database according to parameters found in TLVARM(KLSPREXU) and TLVARM(KLSPREXG). This dialog must run before you can use the Profile Reporting panels.

FULL Indicates that *all* common profiles will be extracted

Usage notes:

1. By default, only common profiles that have been modified after the last execution of NTD KLSPREXT are extracted. However, if a group profile has been modified, all users profiles within that group are extracted even if the users profiles themselves have not been modified.
2. Do *not* include the NTD KLSPREXT command in TLVCMDS(KLSSTART) because this will cause its execution after a system outage. Instead, Candle recommends that you schedule the extract dialog to run at non-peak hours through the use of an automation tool such as AF/OPERATOR or through the use of the AT command (available with PTF QLV1422). For example, you can have AF/OPERATOR issue the **F k1s,NTD KLSPREXT** command once a day for an incremental extract and the **F k1s,NTD KLSPREXT FULL** command once a week for a full extract. Likewise, you can have the AT command issue the **NTD KLSPREXT** or **NTD KLSPREXT FULL** commands.
3. When you specify FULL, the extract tables are deleted and then recreated using the parameters found in TLVARM members KLSPREXU or KLSPREXG.

4. You must specify FULL if TLVARM members KLSPREXU or KLSPREXG are modified.
5. FULL is the default if
 - you are running KLSPREXT for the first time
 - extract tables do not exist
6. Examine TLVLOG messages for error and warning messages. (See “Extract messages” on page 29 for examples of these messages.)

Specifying variables

KLSPREXU and KLSPREXG contain all of the variables that are supported by KLSPREXT, accompanied by a short description at the end of each variable's line. Candle provides a basic set of variables set to Y. Only those variables set to Y are extracted by KLSPREXT.

Dialog KLSPREXT extracts the data from the table database and the NAM database. Before running KLSPREXT, you can

- edit RLSPARM(KLSPREXU) to specify the variables that you want extracted from the *.USER.COMMON.PROFILE tables
- edit RLSPARM(KLSPREXG) to specify the variables that you want extracted from the *.GROUP.COMMON.PROFILE tables

Additional variables follow.

Control member	Variable	Description
KLSPREXU	VSPUNAME, VSPUPHON, VSPUINFO, VSPULOC	NAM variables
KLSPREXU	LASTDATE, LASTTIME, LASTTERM	Variables reporting the last access to CL/SUPERSESSION by any user ID
KLSPREXU and KLSPREXG	VxPFETCP, VxPFETSM, VxPFETVS, VxPFETDT	VxPFEATR variables. The authorities for features CUT/PASTE, SEND MESSAGE, VIEW SESSION, and DIALOG TRACE are packed and saved in the VxPFEATR variable. KLSPREXT unpacks this variable and updates 4 different variables in the extract table. You can then pinpoint the specific feature that you want to extract, sort, mask, or view.

Space requirements for the table database VSAM file

The extract table created by KLSPREXT will increase the inuse space of the table database by approximately 15% when the default extraction parameters are used; approximately 40% if all variables are specified. Make sure that your table database is large enough to accommodate this increase.

Storage overload protection

The Profile Reporting facility has a built-in protection mechanism that prevents storage overload. The estimated total extended storage (e) is computed before the extract tables are loaded and the value is compared to the value specified in KLVSYSIN for QUIESCE(nn,X,F). When usage approaches the maximum extended storage value, the following occurs:

- If e is greater than 70% of nn , a warning message displays. You can then either continue working in the Profile Reporting facility or exit the facility.
- If e is greater than nn minus 5%, a message informs you that you must exit from the facility. You can then do either of the following:
 - review a storage display and re-access Profile Reporting when usage decreases
 - increase the storage value in KLVSYSIN and recycle

Table database and NAM cleanup

CL/SUPERSESSION's last access process lets you identify the date and time of the last access for each user. When a user signs on to CL/SUPERSESSION, this process gathers information as follows:

1. Dialog KLSUINIE performs an ATTACH to dialog KLSLOG.
2. KLSLOG writes a record on an IPC queue.
3. Dialog KLSLOGDQ, by the use of the EVERY command, executes every 10 minutes to read from the queue and then update a permanent table with the user ID, date, time, and terminal ID.

If you have specified LASTDATE and LASTTIME in TLVPARAM(KLSPREXU), you can view LASTDATE data and then perform a sort to identify the profiles that you want to delete.

Note: LASTTIME is appended to the sort if you specify LASTDATE as the sort criteria.

Usage examples

The following 3 examples show various uses of Profile Reporting.

- **To display all users who belong to a certain group:**

1. Make sure that the VUPDFLT variable has been selected in TLVPARM(KLSPREXU) before you execute extract dialog KLSPREXT.
2. From the Profile Reporting - Users table, press F11.
3. Type **U** to the left of the group of your choice and press Enter.

- **To display the last access date in descending order:**

1. Make sure that LASTDATE and LASTTIME have been selected in TLVPARM(KLSPREXU) before you execute extract dialog KLSPREXT.
2. From the Profile Reporting - Users table, access the View pull-down menu.
3. Select LASTDATE and LASTTIME so that they will appear on all other pull-down menus.
4. Return to the Profile Reporting - User's table.
5. Select the Sort pull-down menu.
6. Type a slash (/) in the LASTTIME field and a D (for descending) in the order field, and press Enter.

Note: LASTTIME is appended to the sort.

- **To display all users with View authority:**

1. Make sure VUPFETVS has been selected in TLVPARM(KLSPREXU) before you execute extract dialog KLSPREXT.
2. From the Profile Reporting - Users table, access the View pull-down menu.
3. Select VUPFETVS so that it will appear on all other pull-down menus.
4. Return to the Profile Reporting - User's table.
5. Select the Mask pull-down menu.
6. Type an asterisk (*) in the VUPFETVS field and press Enter.

Messages

Introduction

The following sections list messages resulting from the use of Profile Reporting.

Display messages

Messages that display during use of Profile Reporting follow.

- CS922** **MEMBER *applist* NOT FOUND IN TLVPARM**
Explanation: The specified member does not exist in TLVPARM. It may have been deleted since the last Profile Reporting extract dialog was run *or* the original APPLIST command was issued using the ID parameter, creating an APPLIST name that differs from the actual member residing in TLVPARM.
System Action: None.
User Response: None.
- CS923** **PDS FIND ERROR : *aplhand***
Explanation: Can not allocate the application list in TLVPARM. Refer to PDSFIND in the *Dialog Language Reference Manual* for specific return code values.
System Action: None.
User Response: None.
- CS924** **ONLY ONE SELECTION IS ALLOWED**
Explanation: More than one selection was entered.
System Action: None.
User Response: Select only one entry.
- CS925** **NO SELECTION MADE**
Explanation: No selection was made.
System Action: None.
User Response: Make one selection.
- CS926** **BOTTOM OF DATA REACHED**
Explanation: The Locate argument was not found.
System Action: None.
User Response: Press F5 to continue from the top.

- CS927** **CANNOT OPEN *tbname* RC=*rc*, PLEASE RUN DIALOG KLSPREXT**
Explanation: The attempt was made to open an extract table, but the attempt failed. Refer to TBOPEN in the *Dialog Language Reference Manual* for specific return code values.
System Action: None.
User Response: Try to rerun the Profile Reporting extract dialog KLSPREXT using the FULL parameter.
- CS928** **PLEASE SELECT WITH A "/"**
Explanation: The selection character is invalid.
System Action: None.
User Response: Use the slash (/) to select.
- CS929** **CANNOT SELECT BOTH SYSOUT AND PDS**
Explanation: Profile Reporting can send output to only one destination at a time.
System Action: None.
User Response: Select SYSOUT *or* PDS.
- CS930** **PLEASE SELECT SYSOUT OR PDS**
Explanation: No destination was selected.
System Action: None.
User Response: Select SYSOUT *or* PDS.
- CS931** **LOGICAL RECORD LENGTH MUST BE NUMERIC**
Explanation: Logical Record Length has to be numeric.
System Action: None.
User Response: Enter a numeric value.
- CS932** **REPORT LAYOUT ERROR=*errcode***
Explanation: The Profile Reporting print request has failed during the report layout creation. Refer to the header for PTF QLV1418 for an explanation of the error code.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS933** **REPORT HAS BEEN GENERATED, *nn* PAGE(S)**
Explanation: The attempt to print from Profile Reporting was successful; *nn* pages have been produced.
System Action: None.
User Response: None.

- CS934** **REPORT GENERATION ERROR RC=*rc***
REASON=*reason*
Explanation: The Profile Reporting print request has failed during the report generation. Refer to the header for PTF QLV1418 for an explanation of the return and reason codes.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS935** **LENGTH MUST BE NUMERIC**
Explanation: Length of field must be numeric.
System Action: None.
User Response: Enter a valid length value.
- CS936** **LENGTH MUST BE AT LEAST 8**
Explanation: Length cannot be smaller than 8 to allow for proper positioning of headers on the report.
System Action: None.
User Response: Specify a length of at least 8.
- CS937** **INVALID ALIGNMENT CODE**
Explanation: The alignment code entered is invalid.
System Action: None.
User Response: Supply a valid alignment code and retry the operation.
- CS938** **PDS NAME IS REQUIRED**
Explanation: The attempt to send a report to a PDS failed because no PDS name was entered.
System Action: None.
User Response: Supply a PDS name and retry the operation.
- CS939** **MEMBER NAME IS REQUIRED**
Explanation: The attempt to send a report to a PDS failed because no member name was entered.
System Action: None.
User Response: Supply a member name and retry the operation.
- CS940** **REPLACE INDICATOR IS INVALID**
Explanation: The replace member indicator is invalid.
System Action: None.
User Response: Supply a valid indicator and retry the operation.

- CS941** **COULD NOT ALLOCATE SYSOUT RC=*rc***
Explanation: The attempt to generate a report to SYSOUT failed during allocation with a return code of RNTCODE. Refer to the VTPALLOC function for a list of return codes.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS942** **COULD NOT OPEN SYSOUT RC=*rc***
Explanation: The attempt to generate a report to SYSOUT failed while trying to open the SYSOUT dataset. Refer to the SAM OPENOUT function for a list of return codes.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS943** **MEMBER ALREADY EXISTS AND REPLACE WAS NOT SPECIFIED**
Explanation: The PDS member already exists and the replace member indicator is set to N.
System Action: None.
User Response: If you want to replace the specified member, change the replace member indicator to Y and retry the operation.
- CS944** **PDS DYNAMIC ALLOCATION FAILED**
Explanation: The attempt to generate a report to PDS failed while trying to allocate a PDS. One or two IBM IKLxxxxx messages also appear before message KLVDA002 in the TLVLOG to explain the error.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS945** **INVALID RECORD FORMAT**
Explanation: The attempt to generated a report to PDS failed because the PDS record format is not fixed or variable.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS946** **DDNAME LENGTH IS GREATER THAN 8**
Explanation: The internal DDNAME used while attempting to generate a report to PDS is greater than 8.
System Action: None.
User Response: Report the problem to Candle Support Services.

- CS947** **DSNAME LENGTH IS GREATER THAN 44**
Explanation: The attempt to generate a report to PDS failed because the name of the PDS is greater than 44 characters.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS948** **CL/SUPERSESSION IS NOT AUTHORIZED TO UPDATE THE TARGET PDS**
Explanation: The attempt to generate a report to PDS failed because CL/SUPERSESSION is not authorized by your security software.
System Action: None.
User Response: Update your security rules or supply a different PDS and retry the operation.
- CS949** **PDS ALLOCATION ERROR RC=*rc***
Explanation: The attempt to generate a report to PDS failed with an error code RC. Refer to the PDS SETWTR function for a list of return codes.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS950** **SYSOUT CLOSE ERROR RC=*rc***
Explanation: The attempt to generate a report to SYSOUT failed while trying to close the SYSOUT dataset. Refer to the SAM CLOSE function for a list of return codes.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS951** **PDS CLOSE ERROR RC=*rc***
Explanation: The attempt to generate a report to PDS failed while trying to close the PDS. Refer to the PDS END function for a list of return codes.
System Action: None.
User Response: Make the necessary changes and retry the operation.
- CS952** **INVALID SORT TYPE**
Explanation: The attempt to sort the Profile Reporting table failed because an invalid sort type was entered.
System Action: None.
User Response: Check the panel for valid sort types and retry the operation.

- CS953** **INVALID SORT ORDER**
Explanation: The attempt to sort the Profile Reporting table failed because an invalid sort order was entered.
System Action: None.
User Response: Check the panel for valid sort orders and retry the operation.
- CS954** **TBSORT FAILED RC=*rc***
Explanation: The attempt to sort the Profile Reporting table failed with a return code *rintcode*.
System Action: None.
User Response: If the return code is 16, change the sort type to Character and retry the operation; otherwise contact Candle Support Services.
- CS955** **VALUE MUST BE NUMERIC**
Explanation: The value entered is not numeric.
System Action: None.
User Response: Change the value to a number and retry the operation.
- CS956** **VALUE MUST BE GREATER THAN 0 AND LESS THAN 7**
Explanation: The value range is invalid. Profile Reporting allows only six variables to be displayed. The numbers entered here determines the order in which the variables will be displayed.
System Action: None.
User Response: Change the value and retry the operation.
- CS957** **VALUE MUST BE UNIQUE, NO DUPLICATE.**
Explanation: Variables cannot overlap each other. The numbers entered here determine the order in which the variables will be displayed.
System Action: None.
User Response: Change the value and retry the operation.
- CS958** **UNABLE TO EXTRACT STORAGE STATISTICS**
Explanation: Profile Reporting verifies the storage statistics before it loads the tables in storage to make sure the system will not go into quiesce mode. It uses the operator functions to obtain these statistics. This message appears when the operator functions are not successful. This occurs most frequently when CL/SUPERSESSION is already in quiesce mode. Refer to TLVLOG or display storage statistics from the operator facility.
System Action: None.
User Response: Adjust the MAXIMUM specification in KLVSYSIN.

Extract messages

The Profile Reporting extract dialog KLSPREXT issues the following messages to the TLVLOG. Candle recommends that you examine these messages before using the Profile Reporting facility.

- KLSPR001** **Profile Reporting EXTRACT (FULL) STARTED** *time*
Explanation: Dialog KLSPREXT started and the FULL parameter was specified. New EXTRACT.*.* tables will be created.
System Action: None.
User Response: None.
Severity: INFO.
- KLSPR001** **Profile Reporting EXTRACT STARTED** *time*
Explanation: Dialog KLSPREXT started and the FULL parameter was not specified. Current EXTRACT.*.* tables will be updated.
System Action: None.
User Response: None.
Severity: INFO.
- KLSPR002** **INVALID PARAMETER *parm* PASSED TO EXTRACT - ABORTED**
Explanation: The attempt to run the Profile Reporting extract dialog KLSPREXT was made but an invalid parameter was passed. The optional parameter FULL is the only parameter that can be specified.
System Action: Dialog KLSPREXT aborts.
User Response: Retry to run KLSPREXT without a parameter or with FULL.
Severity: ERROR.
- KLSPR003** **TBCREATE *xxxx.xxxx.xxxx.xxxx* RC=*rc***
Explanation: The Profile Reporting extract dialog KLSPREXT cannot create the *xxxx.xxxx.xxxx.xxxx* table. Refer to the TBCREATE function for a list of return codes.
System Action: Dialog KLSPREXT aborts.
User Response: Retry the operation. If the problem persists, contact Candle Support Services.
Severity: ERROR.

- KLSPR004** **EXTRACT ABORTED**
Explanation: This message is preceded by another KLSPRxxx message that contains information on the cause of the abort.
System Action: Dialog KLSPREXT aborts.
User Response: Refer to preceding message.
Severity: ERROR.
- KLSPR005** **TBOPEN** *xxxx.xxxx.xxxx.xxxx* **RC=rc**
Explanation: The Profile Reporting extract dialog KLSPREXT cannot open the *xxxx.xxxx.xxxx.xxxx* table. Refer to the TBOPEN function for a list of return codes. Possibly, an administrator is looking at Profile Reporting.
System Action: Dialog KLSPREXT aborts.
User Response: Issue the following operator command: **DISPLAY 'KLSPRLS' CLASS=DIALOG.** This lists all the terminals that have active Profile Reporting dialogs. You can then issue the **"VSHOW '*' ID='termid'"** command to obtain the user ID. Retry the operation when Profile Reporting is not is use by administrators.
- KLSPR006** **TBCLOSE EXTRACT.COMMON.TABLE***xxxxxx* **RC=rc**
Explanation: The Profile Reporting extract dialog KLSPREXT was not able to close one of the extract tables. Refer to the TBCLOSE function for a list of return codes.
System Action: Dialog KLSPREXT aborts.
User Response: Retry to run KLSPREXT. If the problem persists, call Candle Support Services.
Severity: ERROR.
- KLSPR007** **COULD NOT OPEN SYSTEM.ACCESS.TABLE REC**
RC=rc
Explanation: The Profile Reporting extract dialog could not open the SYSTEM.ACCESS.TABLE. If the return code = 8, you can either edit TLVPARAM(KLSPREXU) and set LASTDATE, LASTTIME and LASTTERM to N, or verify that dialog KLSLOGDQ is specified in TLVCMDS(KLSSTART) in the following form: EVERY 00:10:00 NTD KLSLOGDQ.
System Action: KLSPREXT processing continues.
User Response: Make changes as required and retry the operation.
Severity: WARNING.

- KLSPR008** *nnnn* **PROFILES TO PROCESS**
Explanation: The Profile Reporting extract dialog has *nnnn* profiles to process. This includes all the user and group profiles.
System Action: None.
User Response: None.
Severity: INFO.
- KLSPR009** *nnnn* **PROFILES PROCESSED OUT OF** *xxxx*
Explanation: The Profile Reporting extract dialog has processed *nn* profiles out of a total of *xxxx*.
System Action: None.
User Response: None.
Severity: INFO.
- KLSPR010** **TBSKIP TEMP.COMMON.PROFILES RC=***rc*
Explanation: The Profile Reporting extract dialog has encountered a bad TBSKIP while processing the TEMP.COMMON.PROFILES table.
System Action: Dialog KLSPREXT aborts.
User Response: Contact Candle Support Services.
Severity: ERROR.
- KLSPR011** **STORAGE STATISTICS (IN BYTES):**
KLSPR012 **ALL COMMON.PROFILE TABLES** *nnnnnnnnnn*
KLSPR013 **TABLES CREATED BY KLSPREXT** *nnnnnnnnnn*
Explanation: The Profile Reporting extract dialog is about to end and it is returning some storage statistics. You can reduce the storage required for the tables created by KLSPREXT by selecting less variables in TLVPARM(KLSPREXU) and TLVPARM(KLSPREXG).
System Action: None.
User Response: None.
Severity: INFO.
- KLSPR014** **Profile Reporting EXTRACT ENDED** *time*
Explanation: The Profile Reporting extract process has completed.
System Action: None.
User Response: None.
Severity: INFO.
- KLSPR015** **PROCESSING** *name*
Explanation: The Profile Reporting extract dialog is running in the incremental mode and has found that *name's* common profile has been modified since the last time KLSPREXT was run. This means that the new profile values are being refreshed in the Profile Reporting extract tables.
System Action: None.

User Response: None.

Severity: INFO.

- KLSPR016** **TABLE *name* HAS NO ROWS - BYPASSED**
Explanation: The Profile Reporting extract dialog has found a common profile table that has no rows.
System Action: None.
User Response: You can delete this profile by using the operator's table manager.
Severity: INFO.
- KLSPR017** ***xxxxxx* IS ALREADY SPECIFIED, IGNORED**
Explanation: The Profile Reporting extract dialog has found a duplicate entry for variable name *xxxxx*. If *xxxxx* starts with VGP, the duplicate entry is in TLSPARM(KLSPREXG); otherwise, it is in TLSPARM(KLSPREXU).
System Action: Any duplicate lines are ignored; processing continues.
User Response: Verify extract control in TLSPARM(KLSPREXU) or TLSPARM(KLSPREXG).
Severity: WARNING.
- KLSPR018** **LINE *xxxx* HAS INVALID PREFIX, IGNORED**
KLSPR019 **---> MUST BE VUP, VSP OR LAS**
Explanation: The Profile Reporting extract dialog has found an invalid line in the extract control member TLVPARAM(KLSPREXU).
System Action: Invalid lines are ignored; processing continues.
User Response: Verify extract control members in TLSPARM.
Severity: WARNING.
- KLSPR020** **LINE *xxxx* HAS INVALID VALUE, IGNORED**
KLSPR021 **---> MUST BE Y OR N**
Explanation: The Profile Reporting extract dialog has found an invalid value in the extract control members.
System Action: Invalid lines are ignored; processing continues.
User Response: Verify extract control members in TLSPARM.
Severity: WARNING.

- KLSPR022** **LINE *xxxx* HAS INVALID PREFIX, IGNORED**
KLSPR023 **---> MUST BE VGP**
Explanation: The Profile Reporting extract dialog has found an invalid line in the extract control member TLVPARAM(KLSPREXG).
System Action: Invalid lines are ignored; processing continues.
User Response: Verify extract control in TLSPARM(KLSPREXG).
Severity: WARNING.
- KLSPR024** **USER *x* DELETED FROM EXTRACT FILE**
Explanation: The Profile Reporting extract dialog is running in the incremental mode and has found a user profile that has been deleted.
System Action: The Profile Reporting extract table entry is deleted for this user.
User Response: None.
Severity: INFO.
- KLSPR025** **USER *xxxxxxx* COULD NOT BE DELETED RC=*rc***
Explanation: The Profile Reporting extract dialog is running in the incremental mode and has found a user profile that has been deleted. An error was encountered while trying to delete the Profile Reporting extract table entry.
System Action: Processing continues.
User Response: Try to schedule a FULL Profile Reporting extract process.
Severity: WARNING
- KLSPR026** **GROUP *xxxxxxx* DELETED FROM EXTRACT FILE**
Explanation: The Profile Reporting extract dialog is running in the incremental mode and has found a group profile that has been deleted.
System Action: The Profile Reporting extract table entry is deleted for this group.
User Response: None.
Severity: INFO.
- KLSPR027** **GROUP *xxxxxxx* COULD NOT BE DELETED RC=*rc***
Explanation: The Profile Reporting extract dialog is running in the incremental mode and has found a group profile that has been deleted. An error was encountered while trying to delete the Profile Reporting extract table entry.
System Action: Processing continues.
User Response: Try to schedule a FULL Profile Reporting extract process.
Severity: WARNING

- KLSPR028 MEMBER KLSPREXU NOT FOUND IN TLVPARM**
Explanation: The extract control member KLSPREXU is not found in TLVPARM.
System Action: Dialog KLSPREXT aborts.
User Response: Create TLVPARM(KLSPREXU) and retry the operation.
Severity: ERROR.
- KLSPR029 MEMBER KLSPREXU EMPTY**
Explanation: The extract control member TLVPARM(KLSPREXU) is empty.
System Action: Dialog KLSPREXT aborts.
User Response: Copy TLSPARM(KLSPREXU) to RLSPARM(KLSPREXU) and retry the operation.
Severity: ERROR.
- KLSPR030 MEMBER KLSPREXG NOT FOUND IN TLVPARM**
Explanation: The extract control member KLSPREXG is not found in TLVPARM.
System Action: Dialog KLSPREXT aborts.
User Response: Create TLVPARM(KLSPREXG) and retry the operation.
Severity: ERROR.
- KLSPR031 MEMBER KLSPREXG EMPTY**
Explanation: The extract control member TLVPARM(KLSPREXG) is empty.
System Action: Dialog KLSPREXT aborts.
User Response: Copy TLSPARM(KLSPREXG) to RLSPARM(KLSPREXG) and retry the operation.
Severity: ERROR.