Note:
Before using this information and the product it supports, read the "Notices" topic at the end of this information.
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About this information

IBM Autonomics Director for DB2 for z/OS (also referred to as Autonomics Director for DB2) provides the framework for a comprehensive DB2 autonomic environment.

These topics provide instructions for customizing and using Autonomics Director for DB2.

These topics are designed to help database administrators, system programmers, application programmers, and system operators perform these tasks:

• Plan for the installation of Autonomics Director for DB2
• Install and operate Autonomics Director for DB2
• Customize your Autonomics Director for DB2 environment
• Diagnose and recover from Autonomics Director for DB2 problems
• Design and write applications for Autonomics Director for DB2
• Use Autonomics Director for DB2 with other DB2 products

Always check the DB2 Tools Product Documentation page for the most current version of this information:

http://www.ibm.com/software/data/db2imstools/db2tools-library.html
Chapter 1. Autonomics Director for DB2 overview

Autonomics Director for DB2 provides the framework for a comprehensive DB2 autonomies environment. By using Autonomics Director for DB2 and other DB2 tools that provide autonomies capabilities, you can automatically detect potential storage, organization, and performance problems, and proactively run maintenance utilities to ensure that your data remains tuned and accessible.

Autonomics Director for DB2 supports both a passive or active approach to autonomies. For example, in a passive autonomies environment, you can automatically gather DB2 real-time statistics and information about the results of running DB2 utilities. That data is used as input to identify potential problem situations and to recommend actions that you can take to correct problem situations. Based on your own analysis, you decide whether to follow the recommendations. In an active autonomies environment, utilities are run for you automatically based on a number of factors including the priority of the job, how many tasks are already running, and how much time remains in the maintenance window.

Autonomics Director for DB2 consists of stored procedures that gather DB2 real-time statistics and historical data about utility runs and control the actions that can occur during a maintenance window. Specifically, Autonomics Director for DB2 provides the following stored procedures:

- RTS_SNAPSHOT creates a new snapshot of the current DB2 real-time statistics for a specific database object or objects. You can call this stored procedure before or after a maintenance window.
- Active Autonomics Director Stored Procedure evaluates a list of possible actions, prioritizes the actions, and determines which utilities can be run on which objects considering the amount of time remaining in the maintenance window.

The data that is collected by these stored procedures is stored in a series of DB2 tables that begin with the prefix SYSAUTO.

Autonomics Director for DB2, when used in conjunction with DB2 Autonomic certified tools can save on CPU and free your DBA staff to focus on business critical problems.

Service updates and support information

Service updates and support information for this product, including software fix packs, PTFs, frequently asked questions (FAQs), technical notes, troubleshooting information, and downloads, are available from the web.

To find service updates and support information, see the following website:

http://www.ibm.com/support/entry/portal/Overview/Software/Information_Management/DB2_Tools_for_z~OS
Product documentation and updates

DB2® Tools information is available at multiple places on the web. You can receive updates to DB2 Tools information automatically by registering with the IBM® My Notifications service.

Information on the web

The DB2 Tools Product Documentation web page provides current product documentation that you can view, print, and download. To locate publications with the most up-to-date information, refer to the following web page:

http://www.ibm.com/software/data/db2imstools/db2tools-library.html

You can also access documentation for many DB2 Tools from IBM Knowledge Center:

http://www.ibm.com/support/knowledgecenter

Search for a specific DB2 Tool product or browse the Information Management > DB2 for z/OS family.

IBM Redbooks® publications that cover DB2 Tools are available from the following web page:

http://www.redbooks.ibm.com

The Data Management Tools Solutions website shows how IBM solutions can help IT organizations maximize their investment in DB2 databases while staying ahead of today's top data management challenges:


Receiving documentation updates automatically

To automatically receive emails that notify you when new technote documents are released, when existing product documentation is updated, and when new product documentation is available, you can register with the IBM My Notifications service. You can customize the service so that you receive information about only those IBM products that you specify.

To register with the My Notifications service:
1. Go to http://www.ibm.com/support/mysupport
2. Enter your IBM ID and password, or create one by clicking register now.
3. When the My Notifications page is displayed, click Subscribe to select those products that you want to receive information updates about. The DB2 Tools option is located under Software > Information Management.
4. Click Continue to specify the types of updates that you want to receive.
5. Click Submit to save your profile.

How to send your comments

Your feedback is important in helping to provide the most accurate and high-quality information. If you have any comments about this book or any other IBM product documentation, use one of the following options:
• Use the online reader comment form, which is located at http://www.ibm.com/software/data/rcf/.
• Send your comments by email to comments@us.ibm.com. Include the name of the book, the part number of the book, the version of the product that you are using, and, if applicable, the specific location of the text you are commenting on, for example, a page number or table number.

Accessibility features

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use a software product successfully.

The major accessibility features in this product enable users to perform the following activities:
• Use assistive technologies such as screen readers and screen magnifier software. Consult the assistive technology documentation for specific information when using it to access z/OS® interfaces.
• Customize display attributes such as color, contrast, and font size.
• Operate specific or equivalent features by using only the keyboard. Refer to the following publications for information about accessing ISPF interfaces:
  – z/OS ISPF User’s Guide, Volume 1
  – z/OS TSO/E Primer
  – z/OS TSO/E User’s Guide
These guides describe how to use the ISPF interface, including the use of keyboard shortcuts or function keys (PF keys), include the default settings for the PF keys, and explain how to modify their functions.
Chapter 2. Preparing to customize Autonomics Director for DB2

Before you start to customize Autonomics Director for DB2 for the first time, determine all of the customization values that you need to specify during the customization process, and familiarize yourself with all of the customization tasks.

The following checklist lists and describes each significant customization step. Use this checklist to guide you through the entire customization process.

**Tip:** Print the following checklist and the data set names and parameter values worksheets. Use the worksheets to record your values, and refer to them during the customization process.

<table>
<thead>
<tr>
<th>Task</th>
<th>Link to detailed instructions</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tools Customizer basics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prior to beginning the customization process, familiarize yourself with Tools Customizer terminology and data sets, and other basic information about Tools Customizer.</td>
<td>“Tools Customizer terminology” on page 101 and “Data sets that Tools Customizer uses during customization” on page 104</td>
<td></td>
</tr>
<tr>
<td><strong>Software requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verify that your environment meets the minimum software requirements. To install and use Autonomics Director for DB2, your environment must be running a supported version of the z/OS operating system and of DB2 for z/OS. Additionally, certain levels of maintenance must be applied.</td>
<td>“Verify that your environment meets software requirements” on page 6</td>
<td></td>
</tr>
<tr>
<td><strong>SMP/E installation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verify that Autonomics Director for DB2 and Tools Customizer for z/OS have been installed correctly. These components are installed by using standard SMP/E processing.</td>
<td>“Verify that Autonomics Director for DB2 and Tools Customizer for z/OS have been installed successfully” on page 7</td>
<td></td>
</tr>
<tr>
<td><strong>Additional precustomization requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional: Set up the DB2 administrative task scheduler.</td>
<td>“Verify that the DB2 administrative task scheduler is enabled” on page 7</td>
<td></td>
</tr>
<tr>
<td><strong>Gather data set names</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| During the customization process, you must specify data set names for the following components:  
  • Tools Customizer  
  • FEC (common code)  
  • Autonomics Director for DB2 | “Worksheets: Gathering required data set names” on page 7 |  |
| **APF authorization** |  |  |
| The following data sets must be APF authorized:  
  • SDYXLOAD  
  • SFECLOAD | “APF authorizing load libraries” on page 8 |  |
| **Gather parameter values** |  |  |
### Task Link to detailed instructions Status

<table>
<thead>
<tr>
<th>Task</th>
<th>Link to detailed instructions</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>During the customization process, you must specify parameter values for Autonomics Director for DB2, for DB2, and for your LPAR.</td>
<td>“Worksheets: Gathering parameter values for Tools Customizer” on page 8</td>
<td></td>
</tr>
<tr>
<td><strong>Customize Autonomics Director for DB2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start Tools Customizer by running a REXX EXEC from the ISPF Command Shell panel.</td>
<td>“Starting Tools Customizer” on page 15</td>
<td></td>
</tr>
<tr>
<td>Set up Tools Customizer user settings. If you are running Tools Customizer for the first time, you must modify several user settings to suit your environment. Otherwise, if the user settings that you have already established are still appropriate, skip this step.</td>
<td>“Modifying Tools Customizer user settings” on page 16</td>
<td></td>
</tr>
<tr>
<td>Complete the steps in the appropriate customization roadmap based on the type of customization that you are performing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Customizing Autonomics Director for DB2 for the first time</strong></td>
<td>“Roadmap: Customizing DB2 Autonomics Director for the first time” on page 19</td>
<td></td>
</tr>
<tr>
<td>Follow this roadmap if you do not have a customized version of Autonomics Director for DB2, and you need to customize it for the first time.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Recustomizing Autonomics Director for DB2</strong></td>
<td>“Roadmap: Recustomizing DB2 Autonomics Director” on page 20</td>
<td></td>
</tr>
<tr>
<td>Follow this roadmap if you have a customized version of Autonomics Director for DB2 but you want to change one or more parameter values.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Set up your environment prior to customization

Prior to beginning the customization process, ensure that your environment meets all requirements, that you have installed all prerequisite software, and that you have considered how you want to customize optional features.

**Verify that your environment meets software requirements**

Ensure that you are using z/OS V1.13 (5694-A01) or later.

Ensure that you are using one of the following supported versions of DB2 for z/OS:
- DB2 V10 (5605-DB2)
- DB2 Value Unit Edition V10.1 (5697-P31)
- DB2 V11 (5615-DB2)
- DB2 Value Unit Edition V11.1 (PID-TBD)

Additionally, make sure that the following FEC maintenance has been applied:
- FEC APAR PK43912
- FEC APAR PK76167
- FEC APAR PM06651 (required for DB2 V10 and later)
Verify that Autonomics Director for DB2 and Tools Customizer for z/OS have been installed successfully

Autonomics Director for DB2 and Tools Customizer for z/OS are components of IBM Tools Base for z/OS (5655-V93), which is available free of charge. Tools Customizer for z/OS provides a standard approach to customizing IBM DB2 for z/OS Tools.

See the Program Directory for IBM Tools Base for z/OS, GI10-8819 for installation instructions.

Verify that the DB2 administrative task scheduler is enabled

If you plan to use the DB2 administrative scheduler to run Autonomics Director for DB2 tasks, DB2 administrative task scheduler must be enabled. See the DB2 for z/OS documentation for instructions.

Worksheets: Gathering required data set names

Identify and record the data set names that will be used during the customization process and make sure that requirements for certain data sets are met.

Data set names for Tools Customizer

Identify and record the following Tools Customizer data set names:

<table>
<thead>
<tr>
<th>Data set name</th>
<th>Description</th>
<th>Special requirements</th>
<th>Your data set name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCCQDENU</td>
<td>Metadata library for Tools Customizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCCQLOAD</td>
<td>Executable load module library for Tools Customizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCCQMENU</td>
<td>ISPF messages for Tools Customizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCCQPPENU</td>
<td>ISPF panels for Tools Customizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCCQSAMP</td>
<td>Sample members for Tools Customizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCCQTENU</td>
<td>Table library for Tools Customizer</td>
<td>You must have write access to this data set.</td>
<td></td>
</tr>
</tbody>
</table>

Data set names of Autonomics Director for DB2

Identify and record the following Autonomics Director for DB2 data set names. During the customization process, you will enter the following values on panel CCQPPRD.

<table>
<thead>
<tr>
<th>Data set name</th>
<th>Description</th>
<th>Special requirements</th>
<th>Your data set name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDYXDBRM</td>
<td>DBRM library for Autonomics Director for DB2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data set name</td>
<td>Description</td>
<td>Special requirements</td>
<td>Your data set name</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------</td>
<td>----------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>SDYXLOAD</td>
<td>Executable load module library for Autonomics Director for DB2</td>
<td>You must APF authorize this data set.</td>
<td></td>
</tr>
<tr>
<td>SDYXDENU</td>
<td>Metadata library for Autonomics Director for DB2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Data set names of FEC (common code)**

Identify and record the following FEC data set names. During the customization process, you will enter the following values on panel CCQPPRD.

<table>
<thead>
<tr>
<th>Data set name</th>
<th>Description</th>
<th>Special requirements</th>
<th>Your data set name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFECDBRM</td>
<td>DBRM library for FEC common code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFECLOAD</td>
<td>Executable load module library for FEC common code</td>
<td>You must APF authorize this data set.</td>
<td></td>
</tr>
<tr>
<td>SFECMENU</td>
<td>ISPF messages for FEC common code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFECPENU</td>
<td>ISPF panels for FEC common code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFECSAMPLE</td>
<td>Sample members for FEC common code</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**APF authorizing load libraries**

Some of the programs in Autonomics Director for DB2 load libraries must be APF-authorized to run.

**Procedure**

Include the following load libraries as part of your authorized list:

- SDYXLOAD
- SFECLOAD

**Worksheets: Gathering parameter values for Tools Customizer**

During the customization process, you will need to provide parameter values for Autonomics Director for DB2, for DB2, and for your LPAR.

Use the worksheets in this topic to record the appropriate parameter settings for your purposes, and then use these worksheets during the customization process. The worksheets are organized based on the order of the customization panels in Tools Customizer.

**Product to Customize section**

**Description**

The parameters that are listed in the Product to Customize section are
read-only. They contain information that was provided on other panels, by Tools Customizer, or by the Autonomics Director for DB2 metadata data set.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Discovered?</th>
<th>Source of this value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product metadata library</td>
<td>No</td>
<td>This value is specified on the Specify the Product to Customize panel (CCQPHLQ)</td>
</tr>
<tr>
<td>LPAR</td>
<td>No</td>
<td>This value is supplied by Tools Customizer.</td>
</tr>
<tr>
<td>Product name</td>
<td>No</td>
<td>This value is provided by the product metadata file.</td>
</tr>
<tr>
<td>Version</td>
<td>No</td>
<td>This value is provided by the product metadata file.</td>
</tr>
<tr>
<td>Product customization library</td>
<td>No</td>
<td>This value is derived from the user-specified customization library qualifier on the Tools Customizer Settings panel (CCQPSET).</td>
</tr>
</tbody>
</table>

**Required parameters section**

**Description**
The parameters in this task are required for all customizations. During the customization process, you will enter these values on panel CCQPPRD.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB2 Autonomics HLQ</td>
<td>Yes</td>
<td>DB2TOOL.DYX150</td>
<td></td>
</tr>
</tbody>
</table>

**Task: Create or Drop DB2 Autonomics Director tables**

**Description**
Creates or drops the DB2 Autonomics Director tables. If you select both the step to drop tables and the step to create tables, existing tables will be dropped first, and then new tables will be created. During the customization process, you will enter these values on panel CCQPPRD. This task is required.
Jobs generated
This task generates the following jobs:
- A1DDL1AA, which is based on the DYXDDL1 template
- A0DROPAA, which is based on the DYXDROP template

Required authority
TBD

<table>
<thead>
<tr>
<th>Step or parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop DB2 Autonomics tables</td>
<td>No</td>
<td>Not selected</td>
<td></td>
</tr>
<tr>
<td>Create DB2 Autonomics tables</td>
<td>Yes</td>
<td>Selected</td>
<td></td>
</tr>
</tbody>
</table>

Task: Bind and free packages and plans

Description
Binds packages and plans. During the customization process, you will enter these values on panel CCQPPRD.
This task is required.

Jobs generated
This task generates the following jobs:
- A2FREEAA, which is based on the DYXFREE template
- A3BINDAA, which is based on the DYXBIND template

Required authority
TBD

<table>
<thead>
<tr>
<th>Step or parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free packages and plans</td>
<td>No</td>
<td>Not selected</td>
<td></td>
</tr>
<tr>
<td>Bind packages and plans</td>
<td>Yes</td>
<td>Selected</td>
<td></td>
</tr>
</tbody>
</table>

Task: Grant EXECUTE privilege

Description
Grants the EXECUTE privilege. During the customization process, you will enter these values on panel CCQPPRD.
This task is required.

Jobs generated
This task generates the A4GRANAA job, which is based on the DYXGRANT template.
Required authority
TBD

<table>
<thead>
<tr>
<th>Step or parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant EXECUTE privilege on the plans</td>
<td>Yes</td>
<td>Selected</td>
<td></td>
</tr>
</tbody>
</table>

**Task: Set up WLM environment for DB2 Autonomics Director**

**Description**
Sets up the WLM address space for the DB2 Autonomics Director stored procedures. During the customization process, you will enter these values on panel CCQPPRD.

This task is required.

**Jobs generated**
This task generates the A5WLMAA job, which is based on the DYXWLM template.

**Required authority**
TBD

<table>
<thead>
<tr>
<th>Step or parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Started task PROCLIB</td>
<td>Yes</td>
<td>DYX.PROCLIB</td>
<td></td>
</tr>
</tbody>
</table>

**Define DB2 Autonomics Director WLM address space**
Defines the WLM address space in which the DB2 Autonomics Director stored procedures run.

Yes | Selected |

**FEC common code HLQ**
The FEC common code high-level qualifier. The FEC common code can be kept in the same set of libraries as the DB2 Automation Tool code. Optionally, FEC can be kept in a separate set of libraries. If it is kept in its own set of libraries, specify the FEC high-level qualifier.

No | There is no default value. |

**LPAR Parameters section**

**Description**
This section contains LPAR parameters. All parameters are required. During the customization process, you will enter these values on panel CCQPLPR.
## DB2 Parameters section

**Description**
This section contains DB2 parameters. All parameters are required. During the customization process, you will enter these values on panel CCQPDB2.

### Table 1. General DB2 Information - common section

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mode</strong></td>
<td>Yes</td>
<td>NFM</td>
<td></td>
</tr>
<tr>
<td><strong>Level number</strong></td>
<td>Yes</td>
<td>blank</td>
<td></td>
</tr>
</tbody>
</table>

**Mode**
This parameter indicates the mode in which the DB2 subsystem is running. The following values are valid:
- CM is compatibility mode on all listed DB2 versions except DB2 10.
- NFM is new-function mode on all listed DB2 versions.

**Level number**
This parameter indicates the version, release, and modification level of the DB2 subsystem. The following values are valid:
- 101 is valid only for CM8, CM9 or NFM.
- 111 is valid only for CM or NFM.

### Table 2. DB2 Libraries - common section

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Load library</strong></td>
<td>Yes</td>
<td>DSN. SDSNLOAD</td>
<td></td>
</tr>
<tr>
<td><strong>Run library</strong></td>
<td>Yes</td>
<td>DSN.RUNLIB. LOAD</td>
<td></td>
</tr>
<tr>
<td><strong>Exit library</strong></td>
<td>Yes</td>
<td>DSN.SDSNEXIT</td>
<td></td>
</tr>
</tbody>
</table>
### Table 3. DB2 Buffer Pools - common section

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the 4 KB buffer pool</td>
<td>Yes</td>
<td>BP0</td>
<td></td>
</tr>
<tr>
<td>Name of the 8 KB buffer pool</td>
<td>Yes</td>
<td>BP8K0</td>
<td></td>
</tr>
</tbody>
</table>

### Table 4. DB2 Utilities - common section

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSAFF for DB2 utilities</td>
<td>Yes</td>
<td>There is no default value.</td>
<td></td>
</tr>
<tr>
<td>Plan name for the DSNTIAD utility</td>
<td>Yes</td>
<td>DSNTIAD</td>
<td></td>
</tr>
</tbody>
</table>

### Table 5. DB2 Autonomics BIND Parameters section

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIND owner ID</td>
<td>Yes</td>
<td>DB2USER</td>
<td></td>
</tr>
<tr>
<td>User ID for GRANT statement</td>
<td>Yes</td>
<td>PUBLIC</td>
<td></td>
</tr>
</tbody>
</table>

### Table 6. DB2 Autonomics DB2 Parameters section

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required?</th>
<th>Default value</th>
<th>Your value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SET CURRENT SQUALID</td>
<td>Yes</td>
<td>DB2USER</td>
<td></td>
</tr>
<tr>
<td>DB2 Autonomics database name</td>
<td>Yes</td>
<td>DYXDB</td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Required?</td>
<td>Default value</td>
<td>Your value</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------</td>
<td>---------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>DB2 Autonomics schema</strong></td>
<td>Yes</td>
<td>SYSAUTO</td>
<td></td>
</tr>
<tr>
<td>The name of the schema that contains the DB2 Autonomics Director tables. This parameter is required. The default value is SYSAUTO.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DB2 Autonomics database STOGROUP</strong></td>
<td>Yes</td>
<td>SYSDEFLT</td>
<td></td>
</tr>
<tr>
<td>The name of the storage group in which to create the DB2 Autonomics Director database. This value is required. The default value is SYSDEFLT.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DB2 Autonomics index STOGROUP</strong></td>
<td>Yes</td>
<td>SYSDEFLT</td>
<td></td>
</tr>
<tr>
<td>The name of the storage group in which to create the DB2 Autonomics Director indexes. This value is required. The default value is SYSDEFLT.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DB2 Autonomics buffer pool</strong></td>
<td>Yes</td>
<td>BP0</td>
<td></td>
</tr>
<tr>
<td>The buffer pool that is used for creating the DB2 Autonomics Director indexes. This value is required. The default value is BP0.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Repository table space primary quantity</strong></td>
<td>Yes</td>
<td>-1</td>
<td></td>
</tr>
<tr>
<td>The primary quantity in kilobytes to allocate to the table space. This value is required. The default value is -1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Repository table space secondary quantity</strong></td>
<td>Yes</td>
<td>-1</td>
<td></td>
</tr>
<tr>
<td>The secondary quantity in kilobytes to allocate to the table space. This value is optional. If you do not specify a secondary quantity, DB2 will use a formula to determine a value. The default value is -1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>WLM environment for stored procedures</strong></td>
<td>Yes</td>
<td>WLMENV4</td>
<td></td>
</tr>
<tr>
<td>The name of the WLM environment to use for DB2 Autonomics Director stored procedures.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>WLM proc name</strong></td>
<td>Yes</td>
<td>WLMPROC</td>
<td></td>
</tr>
<tr>
<td>The name of the procedure that will start the WLM address space.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Drop DB2 Autonomics repository</strong></td>
<td>Yes</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Indicates whether to drop the repository objects for this SSID. This value is used only when the Drop DB2 Autonomics Director tables step is selected. Valid values are YES and NO. The default value is NO.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Chapter 3. Starting and preparing Tools Customizer for use

Use the provided REXX EXEC to start Tools Customizer. The first time that you use Tools Customizer, you must modify the settings that Tools Customizer uses to customize DB2 Autonomics Director.

Starting Tools Customizer

Start Tools Customizer by running a REXX EXEC from the ISPF Command Shell panel.

Before you begin

Tools Customizer must be SMP/E installed. You must know the high-level qualifier of where the Tools Customizer libraries reside. The high-level qualifier is considered to be all the segments of the data set name except the lowest-level qualifier, which is SCCQEXEC.

Attention: Ensure that Tools Customizer load libraries are not APF authorized. APF authorizing Tools Customizer libraries results in an abend.

About this task

To run the REXX EXEC, you must either change the placeholder in the EXEC for the high-level qualifier of the Tools Customizer EXEC library or pass the high-level qualifier as a parameter when you run the EXEC. The REXX EXEC is in the CCQTCZ member of the EXEC library.

Procedure

1. Optional: Change the placeholder for the high-level qualifier in the REXX EXEC:
   a. Find the EXEC library data set for Tools Customizer. The name of the data set is high_level_qualifier.SCCQEXEC.
   b. Edit data set member CCQTCZ and replace the <TCZ HLQ> string with the high-level qualifier of the EXEC library data set. For example, if the name of the Tools Customizer EXEC library is CCQTCZ.USABSAND.SCCQEXEC, replace <TCZ HLQ> with CCQTCZ.USABSAND.

   You have to change the placeholder for the high-level qualifier only once. When you run the REXX EXEC, you do not have to pass the high-level qualifier as a parameter.

2. Run the REXX EXEC (CCQTCZ):
   a. From the ISPF Primary Option Menu, select option 6. The ISPF Command Shell panel is displayed.
   b. Specify the EX command to run the REXX EXEC. For example, if the Tools Customizer EXEC library is CCQTCZ.USABSAND.SCCQEXEC and you changed the placeholder for the high-level qualifier in the REXX EXEC, specify: EX 'CCQTCZ.USABSAND.SCCQEXEC(CCQTCZ)'

   If you did not change the placeholder for the high-level qualifier in the REXX EXEC, specify: EX 'CCQTCZ.USABSAND.SCCQEXEC(CCQTCZ)'

   'CCQTCZ.USABSAND'
Results

The IBM Customizer Tools for z/OS main menu panel is displayed.

What to do next

If you are running Tools Customizer for the first time, you must modify the Tools Customizer user settings. If you have already set the Tools Customizer user settings, either customize or recustomize DB2 Autonomics Director.

Modifying Tools Customizer user settings

Before you can customize DB2 Autonomics Director with Tools Customizer, you must review the settings that Tools Customizer uses. You might have to change the default values to suit your environment. In most cases, you can change the Tools Customizer values at any time. For example, after you have customized DB2 Autonomics Director and are customizing a different product or solution pack, you might have to change the settings.

Procedure

1. On the IBM Tools Customizer for z/OS main panel (CCQPHME), specify option 0, **User settings for Tools Customizer**. The Tools Customizer Settings panel (CCQPSET) is displayed, as shown in the following figure:

   ![Figure 1. The Tools Customizer Settings panel (CCQPSET)](image)

2. Review the values for the following required fields. Use the default value or specify your own value. You must have appropriate read and write access to the data sets that are specified.

   **Customization library qualifier**

   The high-level qualifier that is used as the prefix for the customization library. The customization library is a data set in which the generated jobs to customize DB2 Autonomics Director are stored. Write access to this qualifier is required.

   For each product to be customized, the first value that is specified for the qualifier is always used, even if you change it after you have generated the customization jobs. For example, if you customize a
product and then specify a new qualifier for recustomization, although the new qualifier is saved and displayed, the original value is used.

To maintain multiple instances of Tools Customizer, specify a unique customization library qualifier for each instance of Tools Customizer. Data set names that exceed 42 characters must be enclosed in single quotation marks (').

**Use DB2 group attach**
DB2 Autonomics Director does not support DB2 group attach names. You must specify NO in the **Use DB2 group attach** field.

**Tools Customizer metadata library**
The name of the data set that contains the metadata that is used to display the DB2 and LPAR parameters. The parameters that are displayed on the LPAR Parameters panel and the DB2 Parameters panel depend on the parameters that you define and the tasks and steps that you select on the Product Parameters panel for the product that you are customizing. For example, the DB2 parameters that are required, based on the selected tasks and steps, are displayed on the DB2 Parameters panel, and you can edit them. If they are not required, they are not displayed. Read access to this data set is required. Data set names that exceed 42 characters must be enclosed in single quotation marks (').

**Discover output data set**
The name of the data set in which the output from the DB2 Autonomics Director Discover EXEC is stored. Each product has its own Discover EXEC. The Discover EXEC retrieves the product, LPAR, and DB2 parameters from a previously customized product. Write access to this data set is required. Data set names that exceed 42 characters must be enclosed in single quotation marks (').

**Data store data set**
The name of the data set where Tools Customizer stores information about product, LPAR, and DB2 parameter values. Information about which products are associated with which DB2 entries (DB2 subsystems, DB2 group attach names, and DB2 data sharing members) is also stored in this data set. Data set names that exceed 42 characters must be enclosed in single quotation marks ('). The specified data store data set can be used with only one invocation of Tools Customizer at a time. Data set names that exceed 42 characters must be enclosed in single quotation marks (').

**User job card settings for customization jobs**
The job card information to be inserted into the generated jobs for customizing a product. The default value is the job statement information from the ISPF Batch Selection panel.

The first line of the job card automatically begins with the following information:

```
// JOB
```

where characters 3 - 10 are reserved by Tools Customizer for the job name and includes a blank space after JOB. This name cannot be edited. Information that you specify on the first line of the job card cannot exceed 57 characters. This character limit includes a continuation character. All other lines of the job card cannot exceed 72 characters.
3. Press End to save and exit. If the Discover output data set and the data store data set that you specified do not exist, Tools Customizer creates them.

   **Important:** If the ISPF sessions unexpectedly ends before you exit Tools Customizer, the fields on the Tools Customizer Settings panel (CCQPSET) will be repopulated with default values, and you will be required to review them or specify new values again.

**Results**

The values are saved, and the IBM Tools Customizer for z/OS main menu panel (CCQPHME) is displayed again.

**What to do next**

You are ready to customize or recustomize DB2 Autonomics Director or to change parameter settings.
Chapter 4. Customizing DB2 Autonomics Director

Using Tools Customizer to customize DB2 Autonomics Director consists of identifying the product to customize; defining any required DB2 Autonomics Director, LPAR, and DB2 parameters; generating the customization jobs; and submitting the jobs.

Customization roadmaps describe the steps that you must complete to customize DB2 Autonomics Director. Separate roadmaps are provided for the three most common types of customizations.

Use the following table to determine which roadmap corresponds to your environment.

<table>
<thead>
<tr>
<th>Table 7. Customization roadmaps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment description</td>
</tr>
<tr>
<td>---------------------------------</td>
</tr>
<tr>
<td>You do not have a customized version of DB2 Autonomics Director, and you need to customize it for the first time.</td>
</tr>
<tr>
<td>You have a customized version of DB2 Autonomics Director, but you want to change one or more parameter values.</td>
</tr>
</tbody>
</table>

Roadmap: Customizing DB2 Autonomics Director for the first time

This roadmap lists and describes the steps that are required to customize DB2 Autonomics Director for the first time.

Before you complete these steps, ensure that the following prerequisites have been met:

- All of the product customization steps that must be done before Tools Customizer is started are complete.
- The LPAR ISPF libraries that are required to submit the jobs are known.
- Tools Customizer is started.
- The Tools Customizer settings have been reviewed or modified, and saved.

Complete the steps in the following table to customize DB2 Autonomics Director for the first time.

<p>| Table 8. Steps for customizing DB2 Autonomics Director for the first time |
|-----------------------------|-----------------------------|-----------------------------|</p>
<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Specify the product metadata library for the product that you want to customize. The name of this library is hlq.SDYXDENU.</td>
<td>“Specifying the metadata library for the product to customize” on page 21</td>
</tr>
<tr>
<td>2</td>
<td>Create new DB2 entries and associate them with DB2 Autonomics Director.</td>
<td>“Creating and associating DB2 entries” on page 22</td>
</tr>
<tr>
<td>3</td>
<td>Define the required parameters.</td>
<td>“Defining parameters” on page 24</td>
</tr>
</tbody>
</table>
Table 8. Steps for customizing DB2 Autonomics Director for the first time (continued)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Generate the customization jobs for the product or for the DB2 entries on which DB2 Autonomics Director is ready to be customized.</td>
<td>“Generating customization jobs” on page 29</td>
</tr>
<tr>
<td>5</td>
<td>Submit the generated customization jobs.</td>
<td>“Submitting customization jobs” on page 30</td>
</tr>
</tbody>
</table>

The following table lists some of the common administrative tasks that you might need to do during the customization process.

Table 9. Administrative tasks

<table>
<thead>
<tr>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Browse the different types of parameters.</td>
<td>“Browsing parameters” on page 32</td>
</tr>
<tr>
<td>Copy an existing DB2 entry to the list of DB2 entries on which DB2 Autonomics Director can be customized.</td>
<td>“Copying DB2 entries” on page 32</td>
</tr>
<tr>
<td>Remove one or more DB2 entries from the associated list.</td>
<td>“Removing DB2 entries” on page 34</td>
</tr>
<tr>
<td>Delete one or more DB2 entries from the master list.</td>
<td>“Deleting DB2 entries” on page 34</td>
</tr>
<tr>
<td>Display a list of customization jobs that have been previously generated.</td>
<td>“Displaying customization jobs” on page 34</td>
</tr>
<tr>
<td>Maintain the customization jobs in the customization library.</td>
<td>“Maintaining customization jobs” on page 35</td>
</tr>
</tbody>
</table>

Roadmap: Recustomizing DB2 Autonomics Director

This roadmap lists and describes the steps to change parameter values and regenerate customization jobs for DB2 Autonomics Director after you have customized it for the first time.

The new customization jobs will replace the customization jobs that were previously generated and stored in the customization library. Part of the recustomization process includes selecting or deselecting optional tasks or steps, changing the definitions of parameters that have already been defined, or both. Use the method in this roadmap instead of deleting customization jobs from the customization library.

Before you complete these steps, ensure that the following prerequisites have been met:

- All of the product customization steps that must be done before Tools Customizer is started are complete.
- Tools Customizer is started.

Complete the steps in the following table to recustomize DB2 Autonomics Director.
Table 10. Required steps for recustomizing DB2 Autonomics Director

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Specify the product metadata library for the product that you want to recustomize. The name of this library is hlq.SDYXDENU.</td>
<td>“Specifying the metadata library for the product to customize”</td>
</tr>
<tr>
<td>2</td>
<td>Edit the specific tasks, steps, or parameters that need to be changed.</td>
<td>• “Defining DB2 Autonomics Director parameters” on page 24&lt;br&gt;• “Defining LPAR parameters” on page 26&lt;br&gt;• “Defining DB2 parameters” on page 27</td>
</tr>
<tr>
<td>3</td>
<td>Generate the customization jobs for the product or for the DB2 entries on which DB2 Autonomics Director is ready to be customized.</td>
<td>“Generating customization jobs” on page 29</td>
</tr>
<tr>
<td>4</td>
<td>Submit the new generated customization jobs.</td>
<td>“Submitting customization jobs” on page 30</td>
</tr>
</tbody>
</table>

The following table lists some of the common administrative tasks that you might need to do during the customization process.

Table 11. Administrative tasks

<table>
<thead>
<tr>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Browse the different types of parameters.</td>
<td>“Browsing parameters” on page 32</td>
</tr>
<tr>
<td>Copy an existing DB2 entry to the list of DB2 entries on which DB2 Autonomics Director can be customized.</td>
<td>“Copying DB2 entries” on page 32</td>
</tr>
<tr>
<td>Remove one or more DB2 entries from the associated list.</td>
<td>“Removing DB2 entries” on page 34</td>
</tr>
<tr>
<td>Delete one or more DB2 entries from the master list.</td>
<td>“Deleting DB2 entries” on page 34</td>
</tr>
<tr>
<td>Display a list of customization jobs that have been previously generated.</td>
<td>“Displaying customization jobs” on page 34</td>
</tr>
<tr>
<td>Maintain the customization jobs in the customization library.</td>
<td>“Maintaining customization jobs” on page 35</td>
</tr>
</tbody>
</table>

Specifying the metadata library for the product to customize

You must specify a metadata library for the product that you want to customize.

About this task

The product metadata library contains the information that determines which tasks, steps, and parameters are required to customize DB2 Autonomics Director. This information controls what is displayed on the Product Parameters panel, the LPAR Parameters panel, and the DB2 Parameters panel.

After DB2 Autonomics Director has been SMP/E installed, the default name of the product metadata library is high_level_qualifier.SDYXDENU, where
**high_level_qualifier** is all of the segments of the data set name except the lowest-level qualifier.

**Procedure**

1. Specify option 1 on the Tools Customizer for z/OS panel. The Specify the Metadata Library panel is displayed. This panel contains a list of the product metadata libraries that you specified most recently. If you are using Tools Customizer for the first time, this list is empty, as shown in the following figure:

   ![Specify the Metadata Library panel](image)

   **Figure 2. The Specify the Metadata Library panel**

2. Use one of the following methods to specify the product metadata library:
   - Type the name of a fully qualified partitioned data set (PDS) or an extended partitioned data set (PDSE) in the **Metadata library** field. Double quotation marks ("") cannot be used around the name. Single quotation marks (') can be used but are not required. If you are customizing DB2 Autonomics Director for the first time, you must use this method.
   - Place the cursor on the library name in the Recent Metadata Libraries list, and press Enter.

**Results**

If you are customizing DB2 Autonomics Director for the first time, the Run Discover EXEC panel is displayed. Otherwise, the Customizer Workplace panel is displayed.

**What to do next**

- Complete the steps that correspond to your environment:
  - **Customizing DB2 Autonomics Director for the first time**
    
    Do not run the DB2 Autonomics Director Discover EXEC. Press End. The Customizer Workplace panel is displayed. If your environment requires associated DB2 entries, ensure that they are created and associated. If your environment does not require associated DB2 entries, skip this step, and edit DB2 Autonomics Director parameters.

**Creating and associating DB2 entries**

You can create new DB2 entries and associate them with DB2 Autonomics Director.
About this task

The list of associated DB2 entries is on the Customizer Workplace panel.

Procedure

1. Issue the ASSOCIATE command on the Customizer Workplace panel. The Associate DB2 Entry for Product panel is displayed, as shown in the following figure:

   ![Figure 3. The Associate DB2 Entry for Product panel](image)

2. Create DB2 entries. If you need to associate DB2 entries that are already in the master list, skip this step and go to step 3.
   a. Issue the CREATE command. The Create DB2 Entries panel is displayed, as shown in the following figure:

   ![Figure 4. The Create a DB2 Entry panel](image)

   b. In the appropriate columns, specify a DB2 subsystem ID or DB2 data sharing member name for the DB2 entry that you want to create, and press Enter. Valid values are 1 - 4 characters. You can use symbolic characters. You cannot use blanks.

   **Tips:**
   - To insert multiple DB2 entries, specify the \texttt{\textasciitilde n} line command, where \texttt{n} is the number of DB2 entries to be inserted.
   - You will define specific parameters for these new DB2 entries on the DB2 Parameters panel. This panel is displayed after you select these new DB2 entries and issue the line command to generate the jobs, after you issue the primary command to generate the jobs for all associated DB2 entries, or when you manually edit the DB2 parameters.
The Associate DB2 Entry for Product panel is displayed, and the new DB2 entry is displayed in the master list, as shown in the following figure:

Figure 5. The Associate DB2 Entry for Product panel with a new DB2 entry in the master list

c. Repeat steps b and c for each DB2 entry that you want to create.
d. When you have created all the DB2 entries, associate them with DB2 Autonomics Director, or press End to display the Customizer Workplace panel.

3. Associate DB2 entries.
   a. Specify A against one or more DB2 entries in the master list, and press Enter to associate them with DB2 Autonomics Director.

Results

The Customizer Workplace panel is displayed with the associated DB2 entries displayed in the associated list.

What to do next

Define the parameters.

Related concepts:
"Tools Customizer terminology" on page 101
Tools Customizer uses several unique terms that you should be familiar with before you begin to use Tools Customizer.

Defining parameters

To customize DB2 Autonomics Director, you must define DB2 Autonomics Director parameters, LPAR parameters, and DB2 parameters, if your customization requires DB2 entries.

About this task

You must define the DB2 Autonomics Director parameters first for the following reasons:
• If you ran the DB2 Autonomics Director Discover EXEC, you must review the values that were discovered.
• If you select optional tasks and steps on the Product Parameters panel that affect the DB2 entry on which you will customize DB2 Autonomics Director, additional parameters might be displayed on the DB2 Parameters panel.
• If other steps must be completed in a specific sequence, customization notes on the Product Parameters panel will display the correct sequence.

Defining DB2 Autonomics Director parameters

DB2 Autonomics Director parameters are specific to DB2 Autonomics Director.

About this task

If you ran the DB2 Autonomics Director Discover EXEC, you must review the parameters that were discovered.
Procedure

1. Specify E next to the **Product parameters** field on the Customizer Workplace panel, and press Enter. The Product Parameters panel is displayed, as shown in the following figure. If other steps must be completed in a specific sequence before you define the DB2 Autonomics Director parameters, a note labeled **Important** will display the correct sequence on this panel.

   ![](image)

   **Figure 6. The Product Parameters panel**

2. Select any required tasks and steps, and specify values for any parameters. After you select a task or step with a slash (/), put the cursor in the selected field and press Enter. If tasks, steps, and parameters are required, they are preselected with a slash (/). Otherwise, they are not preselected.

   All of the required parameters have default values, which you can either accept or change.

   **Tips:**
   - In the command line, specify the KEYS command, and map EXPAND to one of the function keys.
   - For a detailed description of all input fields, put the cursor in the field, and press F1 or the key that is mapped to Help.
   - The following elements apply to specific fields:
     - **Add...** is displayed when parameters can have multiple values but currently have only one value. To specify multiple values in these fields, place the cursor on **Add...**, and press Enter. Use the displayed panel to add or delete additional values.
- List... is displayed when the complete list of valid values for the fields is too long to be displayed on the panel. To see the complete list of values, place the cursor on List..., and press F1 or the key that is mapped to Help.

- More... is displayed when input fields contains multiple values. To see all of the values in the field, place the cursor on More..., and press Enter.

3. Optional: Select other tasks and steps with a slash (/) and press Enter to activate the input fields. Either accept or change the default values that are displayed.

4. Press End to save your changes and exit, or issue the SAVE command to save your changes and stay on the Product Parameters panel.

Results

The Customizer Workplace panel is displayed, and the status of the product parameters is Ready to Customize.

What to do next

If the status of other parameters on the Customizer Workplace panel is Incomplete or Discovered, edit these parameters.

Related tasks:

"Defining LPAR parameters"

LPAR parameters are parameters on the local LPAR that are required to customize DB2 Autonomics Director.

"Defining DB2 parameters" on page 27

DB2 parameters are parameters for a DB2 entry.

Defining LPAR parameters

LPAR parameters are parameters on the local LPAR that are required to customize DB2 Autonomics Director.

Procedure

1. Specify E next to the LPAR parameters field, and press Enter. The LPAR Parameters panel is displayed, as shown in the following figure:

<table>
<thead>
<tr>
<th>CCQLPR</th>
<th>LPAR Parameters: DB2 Autonomics</th>
<th>10:43:30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter values for all of the LPAR parameters. Press End to save and exit.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commands: SAVE - Save parameter values</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Entry Subsystem (JES)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JES version .......... 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language Environment Libraries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load library ......... CEE.SCEELLIB Add</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 7. The LPAR Parameters panel

2. Specify values for all required parameters that are displayed. Many parameters have default values, which you can either accept or change.

Tips:

- In the command line, specify the KEYS command, and map EXPAND to one of the function keys.
• For a detailed description of all input fields, put the cursor in the field, and press F1 or the key that is mapped to Help.
• The following elements apply to specific fields:
  – Add... is displayed when parameters can have multiple values but currently have only one value. To specify multiple values in these fields, place the cursor on Add..., and press Enter. Use the displayed panel to add or delete additional values.
  – List... is displayed when the complete list of valid values for the fields is too long to be displayed on the panel. To see the complete list of values, place the cursor on List..., and press F1 or the key that is mapped to Help.
  – More... is displayed when input fields contain multiple values. To see all of the values in the field, place the cursor on More..., and press Enter.

The following LPAR parameters can contain 1 - 64 values:
• LPAR macro library
• Message library
• Panel library
• Skeleton library
• ISPF table input library
• ISPF user profile library
• File tailoring output library
• Link list library
• Command procedures library
• Macro library
• Link-edit library
• Load library
• Started task library name

3. Press End to save your changes and exit, or issue the SAVE command to save your changes and stay on the same panel.

Results

The Customizer Workplace panel is displayed, and the status of the LPAR parameters is Ready to Customize.

What to do next

If the status of other parameters on the Customizer Workplace panel is Incomplete or Discovered, edit these parameters.

Related tasks:
“Defining DB2 Autonomics Director parameters” on page 24
DB2 Autonomics Director parameters are specific to DB2 Autonomics Director.
“Defining DB2 parameters”
DB2 parameters are parameters for a DB2 entry.

Defining DB2 parameters

DB2 parameters are parameters for a DB2 entry.
About this task

If you did not run the DB2 Autonomics Director Discover EXEC, you must create and associate one or more DB2 entries before you can define the DB2 parameters. For more information, see "Creating and associating DB2 entries" on page 22.

Procedure

1. Specify E next to one or more DB2 entries in the associated list, which is in the Associated DB2 Entries and Parameter Status section on the Customizer Workplace panel, and press Enter. The DB2 Parameters panel is displayed, as shown in the following figure:

```
CCQPD82  DB2 Parameters: DB2 Autonomics  10:44:33
Enter values for all of the DB2 parameters. Press End to save and exit.
Commands: SAVE - Save parameter values
More: +

DB2 subsystem ID ............ : DB01
Group attach name ...........

General DB2 Information - common
Mode ........................ : NFM (CM, NFM)
Level number ................: 101 (101, 111)

DB2 Libraries - common
Load library .............. : DSN.SDSNLOAD Add
Run library .............. : DSN.RUNLIB1.LOAD Add
Exit library ............. : DSN.SDSNEXIT Add

DB2 Buffer Pools - common
Name of the 4 KB buffer pool ...... : BP0
Name of the 8 KB buffer pool ...... : BP8K0

DB2 Utilities - common
SYSAFF for DB2 utilities ............... : DSNTIAD
Plan name for the DSNTIAD utility ......: DSNTIAD

DB2 Autonomics BIND Parameters
BIND owner ID .............. : DB2USER
User ID for GRANT statement ........... : PUBLIC

DB2 Autonomics DB2 Parameters
SET CURRENT SQLID ............ : DB2USER
DB2 Autonomics database name ......... : DYXDB
DB2 Autonomics index schema ...........: SYSAUTO
DB2 Autonomics database STOGROUP .......: SYSEFLTS
DB2 Autonomics index STOGROUP .........: SYSEFLTS
DB2 Autonomics index buffer pool ......: BP0
Repository table space primary quantity : -1
Repository table space secondary quantity: -1
WLM environment for the object explode stored proc

Figure 8. The DB2 Parameters panel
```

2. Specify values for all parameters that are displayed.

Tips:
- In the command line, specify the KEYS command, and map EXPAND to one of the function keys.
- For a detailed description of all input fields, put the cursor in the field, and press F1 or the key that is mapped to Help.
- The following elements apply to specific fields:
– **Add...** is displayed when parameters can have multiple values but currently have only one value. To specify multiple values in these fields, place the cursor on **Add...**, and press Enter. Use the displayed panel to add or delete additional values.

– **List...** is displayed when the complete list of valid values for the fields is too long to be displayed on the panel. To see the complete list of values, place the cursor on **List...**, and press F1 or the key that is mapped to Help.

– **More...** is displayed when input fields contains multiple values. To see all of the values in the field, place the cursor on **More...**, and press Enter.

Many parameters have default values, which you can either accept or change.

3. Press End to save your changes and exit, or issue the **SAVE** command to save your changes and stay on the same panel.

### Results

The status of the DB2 entries that you selected on the Customizer Workplace panel is Ready to Customize.

### What to do next

If the status of other parameters on the Customizer Workplace panel is Incomplete or Discovered, edit these parameters.

**Related tasks:**

- “Defining DB2 Autonomics Director parameters” on page 24
- “Defining LPAR parameters” on page 26

**DB2 Autonomics Director parameters** are specific to DB2 Autonomics Director.

**LPAR parameters** are parameters on the local LPAR that are required to customize DB2 Autonomics Director.

### Generating customization jobs

To generate customization jobs for DB2 Autonomics Director and any associated DB2 entries, issue the **GENERATEALL** command, or select one or more DB2 entries on which to customize DB2 Autonomics Director.

### Procedure

Generate the customization jobs by using one of the following methods.

- If you want to generate customization jobs at the product level and for any associated DB2 entries, issue the **GENERATEALL** command, and press Enter.
- If you want to generate customization jobs for specific DB2 entries, select the DB2 entries by specifying the 6 line command against them, and press Enter. The available DB2 entries are in the associated list in the Associated DB2 Entries and Parameter Status section.

**Important:** Regenerating customization jobs will replace any existing jobs, including jobs that you might have manually modified after they were generated.

### Results

If the status is Incomplete or Discovered for DB2 Autonomics Director parameters, LPAR parameters, or DB2 parameters, Tools Customizer automatically starts an editing session for the types of parameters that are required. The session continues until the panel for each type of required parameter has been displayed.
What to do next

If an automatic editing session is started, accept the displayed parameter values or define values for the required types of parameters, select optional parameters, tasks, or steps for your environment, and save the parameter values. Otherwise, the customization jobs are generated, and you can submit them.

Tip: If the customization jobs are generated, but you are not ready to submit them, you can see them later by issuing the JOBLIST command on the Customizer Workplace panel. The JOBLIST command displays the Finish Product Customization panel, which you can use to submit the jobs.

Submitting customization jobs

Submit the customization jobs to customize DB2 Autonomics Director.

Before you begin

Ensure that the correct jobs are generated.

About this task

The following figure shows part of the Finish Product Customization panel. The table on this panel shows the customization jobs that are generated by Tools Customizer. They are grouped by job sequence number.

<table>
<thead>
<tr>
<th>CCQPST</th>
<th>Finish Product Customization</th>
<th>Row 1 to 6 of 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>For a first-time customization, submit the jobs in the members in the order in which they apply to the DB2 entries. Otherwise, submit only the necessary jobs that were generated after changes were made. To submit jobs, browse the members and issue the TSO SUBMIT command.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line Commands: E - Edit  B - Browse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product customization library: SAGREGG.TC2.CUSTOMIBS.POLLS.SMV5S.DYX650</td>
<td></td>
<td></td>
</tr>
<tr>
<td>_Cmd Member_SSID_GrpAttach_Template_Date_Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- -------- ---- ---- -------- ---------- ------------------------------&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A0DROPAA DB01 -- DYXDROP 2014/07/31 Drop DB2 Autonomics Director ta</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1DDL1AA DB01 -- DYXDDL1 2014/07/31 Create DB2 Autonomics Objects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2FREEEAA DB01 -- DXYFREE 2014/07/31 Free packages and plans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3BINDAA DB01 -- DXYBIND 2014/07/31 Binds packages and plans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A4GRANAA DB01 -- DXYGRANT 2014/07/31 Grants EXECUTE authority</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A5WLMAA DB01 -- DXYWLM 2014/07/31 Autonomics WLM address space</td>
<td></td>
<td></td>
</tr>
<tr>
<td>End of customized jobs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 9. The Finish Product Customization panel

The member-naming conventions depend on whether the customization jobs are for DB2 entries, and LPAR, or the product.

Customization jobs for DB2 entries

The members use the following naming convention:

\(<job_sequence_number>\)<job_ID><DB2_entry_ID>

where

\(job_sequence_number\)

Two alphanumeric characters, A0 - Z9, that Tools Customizer
assigns to a customization job. The number for the first template in
the sequence is A0, the number for the second template is A1, and
so on.

job_ID Characters 4 - 7 of the template name, if the template name
contains five or more characters. Otherwise, only character 4 is
used. DB2 Autonomics Director assigns the template name.

DB2_entry_ID
Two alphanumeric characters, AA - 99, that Tools Customizer
assigns to a DB2 entry.

For example, the XYZBNDDB2_entry_ID_1 and XYZBNDDB2_entry_ID_2
jobs are generated from the XYZBNDGR template, and the
XYZ4DB2_entry_ID_1 and XYZ4DB2_entry_ID_2 jobs are generated from
the XYZ4 template. If the jobs are generated on two DB2 entries, the
following member names are listed sequentially: A0BNDGAA,
A0BNDGAB, A14AA, A14AB.

Customization jobs for an LPAR or the product
The members use the following naming convention:

<job_sequence_number><job_ID>

where

job_sequence_number
Two alphanumeric characters, A0 - Z9, that Tools Customizer
assigns to a customization job. The number for the first template in
the sequence is A0, the number for the second template is A1, and
so on.

job_ID Characters 4 - 8 of the template name, if the template name
contains five or more characters. Otherwise, only character 4 is
used. For example, for the XYZMAKE template, the job ID is
MAKE. For the XYZM template, the job ID is M. DB2 Autonomics
Director assigns the template name, and it is displayed in the
Template column.

For example, the XYZBNDGR job is generated from the XYZBNDGR
template, and the XYZ4 job is generated from the XYZ4 template. The
following member names are listed sequentially: A0BNDGR, A14.

Procedure
1. Submit the generated customization jobs by following the process that you use
in your environment or by using the following method:
   a. Specify B against a customization job or the product customization library,
      and press Enter. An ISPF browsing session is started.
   b. Browse the customization job or each member in the library to ensure that
      the information is correct.
   c. Run the TSO SUBMIT command.
2. Press End.

Results
DB2 Autonomics Director is customized, and the Customizer Workplace panel is
displayed. The status is Customized for the DB2 entries on which DB2 Autonomics
Director was customized.
What to do next

You can generate more customization jobs for other DB2 entries, view a list of customization jobs that you previously generated, or recustomize DB2 Autonomics Director.

Browsing parameters

You can browse the product parameters, the LPAR parameters, and the DB2 parameters in read-only mode.

Procedure

1. On the Customizer Workplace panel, specify B next to the Product parameters field, the LPAR parameters field, or the DB2 entry that you want to browse, and press Enter. The panel that corresponds to your specification is displayed.
2. Press End to exit.

Copying DB2 entries

You can copy associated and not associated DB2 entries to other DB2 entries or to new DB2 entries.

About this task

Go to the step that applies to your environment:

• To copy an associated DB2 entry to another associated DB2 entry or to an entry that is not associated, go to step 1.
• To copy an associated DB2 entry to a new entry, go to step 2.
• To copy a DB2 entry that is not associated to a new entry, go to step 3.

Procedure

1. To copy an associated DB2 entry to another associated DB2 entry or to an entry that is not associated, complete the following steps:
   a. Specify C against a DB2 entry in the associated list of DB2 entries on the Customizer Workplace panel, and press Enter. The Copy Associated DB2 Entry panel is displayed.
   b. Select one or more DB2 entries to which information will be copied by specifying the / line command, and press Enter. The Associated column indicates whether the DB2 entry is associated.

   Tip: To copy information into all of the DB2 Entries in the list, issue the SELECTALL primary command, and press Enter. The Copy DB2 Parameter Values panel is displayed.
   c. Specify an option for copying common and product-specific DB2 parameter values. Common DB2 parameter values apply to all DB2 entries for all products that you have customized by using Tools Customizer. Product-specific DB2 parameter values apply only to the product that you are currently customizing.
      • To copy the common DB2 parameter values and the product-specific DB2 parameter values, specify option 1, and press Enter.
      • To copy only the product-specified DB2 parameter values, specify option 2, and press Enter.
In some cases, the DB2 parameter values might contain the DB2 subsystem ID as an isolated qualifier in data set names. For example, in the DB01.DB01TEST.DB01.SANLLOAD data set name, the DB01 subsystem ID is isolated in the first and third qualifiers but is not isolated in the second qualifier. When the DB2 subsystem ID is an isolated qualifier in data set names, the Change DB2 Subsystem ID in DB2 Parameter Values panel is displayed. Otherwise, the Customizer Workplace panel is displayed.

d. If the Change DB2 Subsystem ID in DB2 Parameter Values panel is displayed, specify an option for changing the subsystem IDs. Otherwise, skip this step.
   • To change the subsystem ID in isolated qualifiers in data set names, specify option 1, and press Enter.
   • To use the same subsystem ID in all values, specify option 2, and press Enter.

The Customizer Workplace panel is displayed with the copied associated entry in the list.

2. To copy an associated DB2 entry to a new entry, complete the following steps:
   a. Specify C against a DB2 entry in the associated list of DB2 entries on the Customizer Workplace panel, and press Enter. The Copy Associated DB2 Entry panel is displayed.
   b. Issue the CREATE command. The Create DB2 Entries panel is displayed.
   c. Specify the SSID, the group attach name, or both in the appropriate columns for each new DB2 entry, and press Enter.

   Tip: To add rows for additional entries, specify the \mn line command, where \mn is the number of entries to be created, and press Enter.

The Copy Associated DB2 Entry panel is displayed with the new entries in the list. The new entries are preselected.

d. Press Enter to complete the copy process. The Customizer Workplace panel is displayed with the copied entries in the list.

3. To copy a DB2 entry that is not associated to a new entry, complete the following steps:
   a. Issue the ASSOCIATE command on the Customizer Workplace panel. The Associate DB2 Entry for Product panel is displayed.
   b. Select one or more DB2 entries by specifying the / line command, and press Enter. The Copy a DB2 Entry panel is displayed.
   c. Specify the SSID, the group attach name, or both in the appropriate columns for the new DB2 entry, and press Enter. The Associate DB2 Entry for product panel is displayed with the copied entry in the list.
   d. If you want to associate the copied entry, specify A against it, and press Enter. The Customizer Workplace panel is displayed with the copied entries in the list.

**What to do next**

Edit any of the parameters or generate the jobs.

**Related concepts:**

“Tools Customizer terminology” on page 101

Tools Customizer uses several unique terms that you should be familiar with before you begin to use Tools Customizer.
Removing DB2 entries

You can remove DB2 entries from the associated list.

About this task

When you remove DB2 entries from the associated list, any customization jobs for the entries are removed from the list of jobs on the Finish Product Customization panel, and they are deleted.

Procedure

On the Customizer Workplace panel, specify R next to one or more DB2 entries that you want to remove, and press Enter. The selected DB2 entries are removed from the associated list and added to the master list on the Associate DB2 Entry for Product panel, and the customization jobs are deleted.

Related concepts:
“Tools Customizer terminology” on page 101
Tools Customizer uses several unique terms that you should be familiar with before you begin to use Tools Customizer.

Deleting DB2 entries

You can delete DB2 entries from the master list.

About this task

When you delete DB2 entries from the master list, any associations and all customization jobs for products that are customized on the entries will be deleted.

Procedure

1. On the Customizer Workplace panel, issue the ASSOCIATE command. The Associate DB2 Entry for Product panel is displayed.
2. Specify D next to one or more DB2 entries that you want to delete, and press Enter. If the entry is associated with any products, the Delete Associated DB2 Entry panel for the first DB2 entry that you selected is displayed. Otherwise, the Delete DB2 Entry panel is displayed.
3. To delete the DB2 entries, press Enter. If the DB2 entries are associated with any products in the table on the Delete Associated DB2 Entry panel, any associations and all customization jobs for the products that are customized on it are deleted. Otherwise, only the DB2 entries are deleted. If you selected multiple DB2 entries to delete, the next DB2 entry that you selected is displayed on either the Delete Associated DB2 Entry panel or the Delete DB2 Entry panel. Otherwise, the Associate DB2 Entry for Product panel is displayed.

What to do next

If you selected multiple DB2 entries to delete, repeat step 3 until all selected entries are deleted. Then, continue the customization process.

Displaying customization jobs

You can view a list of the members that contain the customization jobs before or after you submit the jobs.
About this task

The customization jobs that you generate for one DB2 entry are also displayed when you customize DB2 Autonomics Director for another DB2 entry later.

Procedure

On the Customizer Workplace panel, issue the JOBLIST command. The Finish Product Customization panel is displayed. This panel shows the list of jobs that you have previously generated. They are grouped by job sequence number. Use this panel to browse or edit the generated jobs before you submit them.

Maintaining customization jobs

Instead of deleting customization jobs outside of Tools Customizer, you can maintain the correct jobs for DB2 Autonomics Director by completing the steps for recustomization.

About this task

You cannot delete or rename customization jobs from the customization library by starting an ISPF browse or edit session from the Finish Product Customization panel. If you try to delete customization jobs by using this method, the CCQC034S message is issued. If you try to rename customization jobs, the CCQC035S message is issued.

If you delete or rename customization jobs from the customization library by using ISPF outside of Tools Customizer, Tools Customizer will not recognize that the jobs were deleted, and the Finish Product Customization panel will still display them. If you browse or edit jobs that were deleted from the library outside of Tools Customizer, the CCQC027S message is issued.

Procedure

To maintain the correct customization jobs in the customization library, complete the steps for recustomization.

Using Tools Customizer in a multiple-LPAR environment

Currently, Tools Customizer supports only the local LPAR; however, you can propagate customizations to additional LPARs by using either of two different methods.

About this task

In a multiple-LPAR environment, Tools Customizer identifies the LPAR to which you are logged on. Tools Customizer uses this LPAR name for several different parameter settings, one of which is the data store. When you use the data store during the customization of DB2 Autonomics Director that is on a different LPAR, Tools Customizer issues message CCQD586S, which indicates that the product has already been customized based on values from the data store on the first LPAR. This message is issued to prevent the data store from becoming corrupted.

This behavior occurs in the following conditions:

• Tools Customizer is installed on a DASD device that is shared by multiple LPARs.
After a product is customized by using Tools Customizer, the data store is copied to another LPAR.

**Procedure**

To customize products running against a DB2 subsystem on an LPAR where Tools Customizer is not installed, consider using one of the following methods:

**Install one instance of Tools Customizer on one LPAR**

If you intend to reuse the customization values for all the instances of your products on all LPARs, use this method.

1. Associate all the DB2 entries in this one instance of Tools Customizer. The LPARs on which the DB2 subsystems reside do not matter.
2. Generate the customization jobs for each DB2 entry.
3. Copy the generated customization jobs to the LPAR to run against the specific DB2 entries. Some LPAR-specific edits might be required. You can make these edits in the customized jobs that you copied. Note that this situation is one of the few situations where you might need to make manual changes to the jobs that are customized by Tools Customizer.

**Install one instance of Tools Customizer on each LPAR**

If you do not want to reuse previous customization values and you want to start new customizations, use this method.

**Important:** This method will likely not be the preferred approach for most organizations because most organizations tend to use similar or identical customization values for each product instance on all LPARs.
Chapter 5. Troubleshooting

Use these topics to diagnose and correct problems that you experience with Autonomics Director for DB2 and with Tools Customizer.

Troubleshooting Autonomics Director for DB2 problems

Use the messages and instructions for obtaining diagnostic information in this section to solve problems with Autonomics Director for DB2.

Autonomics Director for DB2 messages

Use the information in these messages to help you diagnose and solve Autonomics Director for DB2 problems.

Message format

Autonomics Director for DB2 messages adhere to the following format:

\[ \text{DYXnnnx} \]

where:

\( \text{DYX} \) Indicates that the message was issued by Autonomics Director for DB2

\( \text{R or S} \) Indicates the stored procedure to which the message is related:

- \( \text{R} \) Indicates that the message is related to the RTS_snapshot stored procedure.
- \( \text{S} \) Indicates that the message is related to the autonomies director stored procedure.

\( nnn \) Indicates the message identification number

\( x \) Indicates the severity of the message:

- \( \text{E} \) Indicates that an error occurred, which might or might not require operator intervention.
- \( \text{I} \) Indicates that the message is informational only.
- \( \text{W} \) Indicates that the message is a warning to alert you to a possible error condition.

Each message also includes the following information:

**Explanation:**

The Explanation section explains what the message text means, why it occurred, and what its variables represent.

**System action:**

The System action section explains what the system will do in response to the event that triggered this message.

**User response:**

The User response section describes whether a response is necessary, what the appropriate response is, and how the response will affect the system or program.
### DYXR001E

The parameter `parameter_name` is not valid. Reason code = *n*.

**Explanation:** The specified parameter is not valid. The following reason codes explain why the value is invalid:

1. The value is invalid.
2. The value length is invalid.
3. The value is null.
4. The value is not null.

**System action:** Processing stops.

**User response:** Change the incorrect value specified on the SQL CALL statement.

### DYXR002E

The column `column_name` in the table `table_name` is not valid. The following list identifies the row: `row_identifier_list`. Reason code = *n*.

**Explanation:** The specified column in the specified table is invalid. The following reason codes explain why the column is invalid:

1. The value is invalid.
2. The value length is invalid.
3. The value is null.
4. The value is not null.

`Row_identifier_list` identifies the row with the invalid column. It consists of one or more pairs separated by a comma, where:

- `row_identifier` A column in the specified table.
- `id` The value of the `row_identifier` column.

**System action:** Processing stops.

**User response:** Specify a valid value for the specified column.

### DYXR003E

The procedure `procedure_name` returned with `execution_status`. Reason.

**Explanation:** The specified procedure did not complete when it was internally invoked. `Execution_status` can be warning or error. `Reason` can be a return code or a message returned by the specified procedure, or both.

**System action:** Processing stops.

**User response:** Review the return code, message, or both issued by the specified stored procedure. For more information about the return codes, see the explanations for the messages issued by the stored procedure.

### DYXR005E

The procedure `procedure_name` did not return any rows in the table `table_name`.

**Explanation:** The procedure `procedure_name` returned 0 rows when it was internally invoked. The procedure is expected to return one or more rows.

**System action:** Processing stops.

**User response:** Contact IBM Software Support.

### DYXR006E

The `object_type object_value` does not exist in the table `table_name`.

**Explanation:** The specified object does not exist in the table `table_name`.

**System action:** Processing stops.

**User response:** On the SQL CALL statement, specify a valid object that exists in the specified table.

### DYXR007E

The OPTIONS PREVIEW and LISTDEF statements generated by the procedure `procedure_name_1` exceed the maximum utility statement size that is allowed by the procedure `procedure_name_2`. The maximum size is `maximum_size`.

**Explanation:** The stored procedure `procedure_name_1` is internally invoking the stored procedure `procedure_name_2`, to which it has to pass a utility statement with an OPTIONS PREVIEW and a LISTDEF statement. However, the size of the generated utility statement exceeds the maximum size that is supported by `procedure_name_2`.

**System action:** Processing stops.

**User response:** Reduce the number of objects in the table SYSAUTO.OBJECT_LISTDEF that is associated with the object profile being expanded.

### DYXR008E

The SQL statement `SQL_statement` returned with `SQL_result` for `object_type=object_name`. `SQLCA_data`

**Explanation:** An SQL warning or error was returned when the SQL statement was issued for the specified DB2 object. `SQL_result` can be warning or error.

**System action:** Processing stops.

**User response:** See the additional information that is written to the SQLCA and complete the appropriate steps.

### DYXR009E

The current version of the table `table_name` is not supported by this procedure.

**Explanation:** The version of the specified table is not supported by the procedure that was run.

**System action:** Processing stops.
User response: Upgrade the specified table to a version that is supported by the procedure.

DYXR010E The values of the following parameters are not valid: parameter_list. All values must be either null or not null.
Explanation: The parameters specified in the message are not valid. The values of these parameters must all be either null or not null.
System action: Processing stops.
User response: Ensure that the parameters specified on the SQL CALL statement are either null or not null.

DYXS002I History ID = history_id
Explanation: This message indicates the history ID of this run of the Autonomics Director.
User response: No action is required.

DYXS003I Actual Start Time = hh:mm:ss
Explanation: This message indicates the time that the Autonomics Director started.
User response: No action is required.

DYXS004I Window Name = window_name
Explanation: This message indicates the name of the maintenance window for this run of the Autonomics Director.
User response: No action is required.

DYXS005I Window ID = window_id
Explanation: This message indicates the window ID used for this run of the Autonomics Director.
User response: No action is required.

DYXS006I Window Start CRON = cron_string
Explanation: This message displays the point-in-time string in UNIX cron format of the start of the maintenance window.
User response: No action is required.

DYXS007I Window Start Time = hh:mm:ss
Explanation: This message displays the start time that is defined for the maintenance window.
User response: No action is required.

DYXS008I Window Duration = hh:mm:ss
Explanation: This message displays the duration that is defined for the maintenance window.
User response: No action is required.

DYXS009I Window Overrun = hh:mm:ss
Explanation: This message displays the defined length of time that the maintenance window allows for a task to complete when the window closes.
User response: No action is required.

DYXS010I Window End Time = hh:mm:ss
Explanation: This message displays the end time of the maintenance window.
User response: No action is required.

DYXS100I Open actions retrieved: number_of_actions
Explanation: This message displays the total number of open actions that might be run in the maintenance window.
User response: No action is required.

DYXS101I Maximum Tasks = number_of_tasks
Explanation: This message displays the maximum number of tasks that the Autonomics Director can allocate during the maintenance window.
User response: No action is required.

DYXS102I Bypassing action ID action_id
Explanation: The action ID listed in the message text cannot be run within the time remaining in this maintenance window. The action is bypassed.
User response: Ensure that the expected run time for the action is less than the overall duration of the maintenance window. Adjust the priority for this action so that the action is dispatched earlier in the maintenance window.

DYXS102W Action duration exceeds time remaining in maintenance window.
Explanation: The estimated amount of time that the action will take is longer than the amount of time left in the maintenance window. The action is bypassed, but remains open for consideration in subsequent maintenance windows. Refer to subsequent messages to review the time estimate for the action and for the time left in the maintenance window.
User response: Ensure that the expected run time for the action is less than the overall duration of the maintenance window. Adjust the priority for this action.
so that the action is dispatched earlier in the maintenance window.

**DYXS103I** Action duration = hh:mm:ss

**Explanation:** This message displays the estimated amount of time that the action will take to run.

**User response:** No action is required.

**DYXS104I** Time remaining = hh:mm:ss

**Explanation:** This message displays the amount of time that is left in the maintenance window.

**User response:** No action is required.

**DYXS105I** Dispatching action ID IX | TS = object ACTION= action_key PRIORITY=priority

**Explanation:** This message indicates that an action is being dispatched to an open task and displays the details of the action.

**User response:** No action is required.

**DYXS106E** Maintenance window does not exist.

**Explanation:** The Autonomics Director could not find the maintenance window assigned to this run. The maintenance window might have been deleted.

**User response:** If the maintenance window was erroneously deleted, re-create it.

**DYXS107I** Window retrieved.

**Explanation:** The maintenance window was retrieved from SYSAUTO.TIMEWINDOWS.

**User response:** No action is required.

**DYXS108I** Timeperiod retrieved.

**Explanation:** The maintenance window time period was retrieved from SYSAUTO.TIMEPERIODS.

**User response:** No action is required.

**DYXS109E** Autonomic Director is executing outside defined maintenance window.

**Explanation:** This instance of the Autonomics Director was submitted or scheduled to run at a time that is outside the time period defined in the maintenance window.

**User response:** Do one of the following:
- Submit the Autonomics Director at a time that falls within the defined window start and duration of the maintenance window.
- Reschedule the Autonomics Director for a time that falls within the defined window start and duration of the maintenance window.
- Add a time period to the maintenance window that corresponds with the time that you want to run the Autonomics Director.

**DYXS800E** End of actions.

**Explanation:** This message indicates the end of the actions to be run by the Autonomics Director in this maintenance window.

**User response:** No action is required.

**DYXS801I** Waiting for remaining tasks to complete.

**Explanation:** This message indicates that the maintenance window is closed and the Autonomics Director is waiting for remaining tasks to complete before terminating.

**User response:** No action is required.

**DYXS802I** All tasks completed.

**Explanation:** This message indicates that the maintenance window is closed and all tasks are complete.

**User response:** No action is required.

**DYXS803I** Terminating.

**Explanation:** The Autonomics Director is terminating.

**User response:** No action is required.
DYXS804I Procedure ended.
Explanation: The Autonomics Director has ended.
User response: No action is required.

DYXS999E SQL error RC = return_code, Reason = reason_code

Gathering diagnostic information
Before you report a problem with Autonomics Director for DB2 to IBM Software Support, you need to gather the appropriate diagnostic information.

Procedure
Provide the following information for all Autonomics Director for DB2 problems:
• A clear description of the problem and the steps that are required to re-create the problem
• All messages that were issued as a result of the problem
• Product release number and the number of the last program temporary fix (PTF) that was installed
• The version of DB2/IMS that you are using and the type and version of the operating system that you are using

Provide additional information based on the type of problem that you experienced:

For online abends, provide the following information:
• A screen capture of the panel that you were using when the abend occurred
• The job log from the TSO session that encountered the abend
• The job log from the server
• A description of the task that you were doing before the abend occurred

For errors in batch processing, provide the following information:
• The complete job log
• Print output
• Contents of the data sets that were used during the processing

Troubleshooting Tools Customizer problems
Use the messages and instructions for obtaining diagnostic information in this section to solve problems with Tools Customizer.

Tools Customizer messages
Use the information in these messages to help you diagnose and solve Tools Customizer problems.

CCQB000I The product parameter data was saved in the data store.
Explanation: Changes that were made to the product parameters were saved in the data store.
System action: None.
User response: No action is required.

CCQB001I The DB2 parameter data was saved in the data store.
Explanation: Changes that were made to the DB2 parameters were saved in the data store.
System action: None.
User response: No action is required.
<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Explanation</th>
<th>System action</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCQB002I</td>
<td>The LPAR parameter data was saved in the data store.</td>
<td>Changes that were made to the LPAR parameters were saved in the data store.</td>
<td>None</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQB003E</td>
<td>At least one step must be selected in a selected task. The selected task is task_description.</td>
<td>When a task is selected, at least one step must be selected. A selected step is missing from the specified task.</td>
<td>Processing stops</td>
<td>Select a step in the specified task or deselect the task.</td>
</tr>
<tr>
<td>CCQB004I</td>
<td>The required information to run the Discover EXEC was saved in the data store.</td>
<td>The data store contains all the information that is required to run the Discover EXEC.</td>
<td>None</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQB004E</td>
<td>The conflicting values for the parameter_name parameter must be resolved before the information can be saved.</td>
<td>Two values for one parameter conflict with each other, and they must be resolved to save the information.</td>
<td>Processing stops</td>
<td>Resolve the conflicting values for the parameter.</td>
</tr>
<tr>
<td>CCQB005E</td>
<td>One row must be selected.</td>
<td>One row in the table must be selected.</td>
<td>Processing stops</td>
<td>Select one row.</td>
</tr>
<tr>
<td>CCQB007E</td>
<td>Only one row can be selected.</td>
<td>Multiple rows in the table are selected, but only one row is allowed to be selected.</td>
<td>Processing stops</td>
<td>Select only one row.</td>
</tr>
</tbody>
</table>
CCQC005S  The \textit{template\_name} template exceeds the number of allowed templates for a customization sequence. The template is in the \textit{library\_name} metadata library.

\textbf{Explanation:} The customization sequence can process only \textit{number} templates. The specified template cannot be processed because the customization sequence already contains the maximum number of templates.

\textbf{System action:} Processing stops.


CCQC006E  The jobs could not be generated for the \textit{group\_attach\_name} DB2 group attach name.

\textbf{Explanation:} The customization jobs could not be generated for the specified DB2 group attach name.

\textbf{System action:} Processing stops.


CCQC007E  The jobs could not be generated for the \textit{subsystem\_ID} DB2 subsystem.

\textbf{Explanation:} The customization jobs could not be generated for the specified DB2 subsystem.

\textbf{System action:} Processing stops.


CCQC008E  The jobs could not be generated for the \textit{member\_name} DB2 member.

\textbf{Explanation:} The customization jobs could not be generated for the specified DB2 member.

\textbf{System action:} Processing stops.


CCQC009S  The jobs were not generated for the DB2 entries.

\textbf{Explanation:} One or more errors occurred while customization jobs were being generated for the selected DB2 entries.

\textbf{System action:} Processing stops.

CCQC010S  The \textit{template\_name} template could not be accessed in the \textit{library\_name} metadata library.

\textbf{Explanation:} The specified template could not be accessed because the user does not have RACF® access to the data set, the data set has incorrect data characteristics, or the data set is not cataloged.

\textbf{System action:} Processing stops.

\textbf{User response:} Ensure that you have RACF access to the data set, that the characteristics are correct according to the specifications of the product that you are customizing, and that the data set is cataloged. If the problem persists, contact IBM Software Support.

CCQC011S  The \textit{template\_name} template could not be written to the \textit{library\_name} customization library.

\textbf{Explanation:} The specified template could not be accessed because the user does not have RACF access to the data set, the data set has incorrect data characteristics, or the data set is not cataloged.

\textbf{System action:} Processing stops.

\textbf{User response:} Ensure that you have RACF access to the data set, that the characteristics are correct according to the specifications of the product that you are customizing, and that the data set is cataloged. If the problem persists, contact IBM Software Support.

CCQC012W  The job card was generated with default values because the JOB keyword was missing.

\textbf{Explanation:} Default values were used to generate the job card because the JOB keyword was not specified in the first line of the job card.

\textbf{System action:} The job card was generated with default values.

\textbf{User response:} No action is required. To generate the job card with your own values, add the JOB keyword in the first line of the job card.

CCQC013W  The job card was generated with the default value for the programmer name because the specified programmer name exceeded 20 characters.

\textbf{Explanation:} Default values were used to generate the job card because the specified programmer name contained too many characters.

\textbf{System action:} The job card was generated with default values.
User response: No action is required. To generate the job card with your own values, add a valid programmer name in the job card. A valid programmer name is 1 - 20 characters.

CCQC014W The job card was generated with default values because the JOB keyword was not followed by a space.

Explanation: Default values were used to generate the job card because a space did not follow the JOB keyword.

System action: The job card was generated with default values.

User response: No action is required. To generate the job card with your own values, add a space after the JOB keyword in the job card.

CCQC015S The template_name template in the library_name metadata library contains the following file-tailoring control statement: statement_name. This control statement is not valid in a template_type template.

Explanation: The template_type template cannot contain the specified type of file-tailoring control statement.

System action: Processing stops.


CCQC016S The )DOT file-tailoring control statement exceeded the number of allowed occurrences for the template_name template in the library_name metadata library.

Explanation: The )DOT file-tailoring control statement can occur only a limited number of times in the specified template.

System action: Processing stops.


CCQC017S The nested )DOT file-tailoring control statements exceeded the number of allowed occurrences in the template_name template in the library_name metadata library.

Explanation: Nested )DOT file-tailoring control statements can occur only number times.

System action: Processing stops.


CCQC018S The template_name template in the library_name metadata library is not valid because it does not contain any data.

Explanation: The specified template is missing required data.

System action: Processing stops.


CCQC019S The template_name template in the library_name metadata library is not valid because an )ENDDOT file-tailoring control statement is missing.

Explanation: An )ENDDOT file-tailoring control statement is required in the specified template.

System action: Processing stops.


CCQC021S The template_name template in the library_name metadata library is not valid because the template must start with the parameter_name job card parameter.

Explanation: The specified template must start with the specified job card parameter.

System action: Processing stops.


CCQC022S The parameters used in a )DOT file-tailoring control statement exceeded the number of allowed parameters in the template_name template. The template is in the library_name metadata library. The error occurs in )DOT section section_number.

Explanation: A )DOT file-tailoring control statement can contain only a limited number of parameters.

System action: Processing stops.

The )DOT file-tailoring control statement must include the table-name table name in the template_name template. The template is in the library_name metadata library. The error occurs in )DOT section section_number.

**Explanation:** The )DOT file-tailoring control statement is missing a required table name.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

---

ISPF file tailoring failed for the template_name template in the library_name metadata library.

**Explanation:** An error occurred during ISPF file tailoring for the specified template.

**System action:** Processing stops.

**User response:** Review the Tools Customizer-generated trace data set and the ISPF file tailoring trace data set. To create an ISPF file tailoring trace data set, complete the following steps:

1. Run Tools Customizer until the error is about to occur.
2. Specify the ISPFTTRC command, and press Enter.
3. Issue the Tools Customizer command that issues the error.
4. Specify the ISPFTTRC command, and press Enter. The ISPF file tailoring trace data set is created. It adheres the following naming convention: TSO_ID.ISPF.TTRACE, where TSO_ID is the TSO user ID that is being used.

If the problem persists, gather the following information and contact IBM Software Support:

- A screen capture of the Tools Customizer error. Ensure that the complete error message is displayed by pressing PF1.
- The Tools Customizer trace data set. It adheres to the following naming convention: TSO_ID.CCQ.TRACE, where TSO_ID is the TSO user ID that is running Tools Customizer.
- The ISPF file tailoring trace data set.

---

Customized jobs do not exist because they have not been generated.

**Explanation:** The list of customized jobs cannot be displayed because the product has not been customized for any DB2 entries.

**System action:** None.

**User response:** Complete the steps to customize a product. Customized jobs are generated when all required product, LPAR parameters, and DB2 parameters are defined and at least one DB2 entry on which to customize the product has been selected.

---

The value of the "customized" attribute for the parameter_name parameter in the library_name metadata library template does not match the value that was previously specified. The value is value_name, and the previously specified value is value_name.

**Explanation:** The value for the "customized" attribute for a parameter must match the value that was previously specified.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

---

The job_name customization job was not found in the library_name customization library.

**Explanation:** The selected customization job does not exist in the customization library.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

---

The library_name customization library was not found.

**Explanation:** The customization library does not exist.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

---

The customization jobs were generated for Product_name.

**Explanation:** The customization jobs were generated for the specific product.

**System action:** None.

**User response:** No action is required.

---

The customization jobs cannot be generated because at least one DB2 entry must be associated with this product.

**Explanation:** The product that you are customizing requires at least one DB2 entry to be associated with it before customization jobs can be generated.
CCQC031I  The jobs were generated for the associated DB2 entries.

Explanation: The customization jobs were generated for the DB2 entries that are associated with the product.

System action: None.

User response: None.

CCQC032S  The customization jobs were not generated for Product_name.

Explanation: A severe error occurred while the jobs were being generated for the specified product.

System action: None.


CCQC033S  The customization_library_name has no customized jobs.

Explanation: The specified customization library cannot be browsed or edited because it is empty.

System action: None.

User response: Generate customization jobs for the specified library, and browse or edit the library again.

CCQC034S  The specified operation is not allowed.

Explanation: Issuing commands against customization jobs from the customization library from an ISPF browse or edit session that was started on the Finish Product Customization panel is restricted.

System action: None.

User response: To make changes to customization jobs, follow the steps for recustomization.

CCQC035E  Before you generate customization jobs, edit the product parameters to select one or more tasks or steps, and then issue the G line command or the GENERATEALL command again.

Explanation: One or more tasks or steps must be selected before customization jobs can be generated.

System action: None.

User response: Edit the product parameters to select one or more tasks or steps. Then, issue the G line command or the GENERATEALL command again.

CCQC036E  Before you exit the Product Parameters panel, you must select one or more tasks or steps to generate customization jobs or issue the CANCEL command.

Explanation: One or more tasks or steps must be selected to generate customization jobs or the CANCEL command must be issued before you can exit the Product Parameters panel.

System action: None.

User response: Select one or more tasks or steps, or issue the CANCEL command.

CCQD000W  The member_name environment index member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

Explanation: While determining if the specified environment index member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the warning.

CCQD001S  The member_name environment index member is not valid. The PL/I XML parser issued the following exception error code: code_number.

Explanation: While determining if the specified environment index member is valid, the PL/I XML parser issued an exception error code.

System action: Processing continues.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the error.

CCQD002S  The XML structure of the member_name environment index member is not valid. The element_name element is unknown.

Explanation: The specified environment index member contains an unknown element.

System action: Processing stops.


CCQD003S  The XML structure of the member_name environment index member is not valid. Content is not allowed for the element_name element, but content was found.
CCQD004S  The XML structure of the member_name environment index member is not valid. Content is required for the element_name element, but content was not found.

Explanation:  The specified element does not contain required content.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQD005S  The XML structure of the member_name environment index member is not valid. The content length for the element_name element exceeds maximum_number characters.

Explanation:  The specified element contains too many characters.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQD006S  The XML structure of the member_name environment index member is not valid. The element_name element cannot occur more than maximum_number times.

Explanation:  The specified element occurs too many times in the environment index member.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQD007S  The XML structure of the member_name environment index member is not valid. The element_name element must occur at least minimum_number times.

Explanation:  The specified element does not occur enough times in the environment index member.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQD008S  The XML structure of the member_name environment index member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation:  The specified attribute occurs too many times in the environment index member.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQD009S  The XML structure of the member_name environment index member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation:  The specified attribute does not occur enough times in the environment index member.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQD010S  The XML structure of the member_name environment index member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation:  Content was found in an attribute that cannot contain content. The name of the attribute and the name of the element that contains it are indicated in the message text.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQD011S  The XML structure of the member_name environment index member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.

Explanation:  An attribute does not contain required content. The name of the attribute and the name of the element that contains it are indicated in the message text.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.
CCQD012S The XML structure of the member_name environment index member is not valid. The content length for the element_name element exceeds maximum_number characters.

**Explanation:** An element contains too many characters. The name of the element and the maximum number of allowed characters are indicated in the message text.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

CCQD013S The XML structure of the member_name environment index member is not valid. The attribute_name attribute in the element_name element is unknown.

**Explanation:** The environment index member contains an unknown attribute. The name of the unknown attribute and the name of the element that contains it are indicated in the message text.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

CCQD050S The following LPAR serial number is duplicated in the environment index member: serial_number.

**Explanation:** The environment index member contains duplicate LPAR serial numbers. The duplicate serial number is indicated in the message text.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

CCQD051S The following DB2 serial number is duplicated in the environment index member: serial_number.

**Explanation:** The environment index member contains duplicate DB2 serial numbers. The duplicate serial number is indicated in the message text.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

CCQD052S The following DB2 group attach name is duplicated in the environment index member: group_attach_name.

**Explanation:** The environment index member contains duplicate group attach names.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

CCQD053S The reference to the following DB2 subsystem for a DB2 group attach name is duplicated in the environment index member: subsystem_ID.

**Explanation:** The environment index member contains duplicate references to a DB2 subsystem for a DB2 group attach name.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

CCQD054S The reference to the following DB2 subsystem for the LPAR_name LPAR is duplicated in the environment index member: subsystem_ID.

**Explanation:** The environment index member contains duplicate references to a DB2 subsystem for an LPAR. The duplicate subsystem ID is indicated in the message text.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

CCQD055S The following DB2 group attach name was not found in the environment index member: group_attach_name.

**Explanation:** A group attach name that is referenced by a DB2 member does not exist in the environment index member.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

CCQD056S The following LPAR was not found in the environment index member: LPAR_name.

**Explanation:** The LPAR does not exist in the environment index member.
CCQD057S The following LPAR is duplicated in the environment index member: LPAR_name.

Explanation: The environment index member contains duplicate LPARs. The name of the duplicate LPAR name is indicated in the message text.

System action: Processing stops.


CCQD100W The member_name product index member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

Explanation: While determining if the product index member is valid, the PL/I XML parser issued the specified exception warning code.

System action: Processing continues.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the specified exception warning code.

CCQD101S The member_name product index member is not valid. The PL/I XML parser issued the following exception error code: code_number.

Explanation: While determining if the product index member is valid, the PL/I XML parser issued the specified exception error code.

System action: Processing stops.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the specified exception error code.

CCQD102S The XML structure of the member_name product index member is not valid. The element_name element is unknown.

Explanation: The specified product index member contains an unknown element.

System action: Processing stops.


CCQD103S The XML structure of the member_name product index member is not valid. Content is not allowed for the element_name element, but content was found.

Explanation: Content was found for an element that cannot contain content.

System action: Processing stops.


CCQD104S The XML structure of the member_name product index member is not valid. Content is required for the element_name element, but content was not found.

Explanation: The specified element does not contain required content.

System action: Processing stops.


CCQD105S The XML structure of the member_name product index member is not valid. The content length for the element_name element exceeds maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.


CCQD106S The XML structure of the member_name product index member is not valid. The element_name element cannot occur more than maximum_number times.

Explanation: The specified element occurs too many times in the product index member.

System action: Processing stops.


CCQD107S The XML structure of the member_name product index member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur
CCQD108S  The XML structure of the *member_name* product index member is not valid. The *attribute_name* attribute in the *element_name* element cannot occur more than *maximum_number* times.

**Explanation:** An attribute occurs too many times. The name of the attribute and the element that contains it are indicated in the message text.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

CCQD109S  The XML structure of the *member_name* product index member is not valid. The *attribute_name* attribute in the *element_name* element must occur at least *minimum_number* times.

**Explanation:** The specified attribute does not occur enough times in the product index member.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

CCQD110S  The XML structure of the *member_name* product index member is not valid. Content is not allowed for the *attribute_name* attribute in the *element_name* element, but content was found.

**Explanation:** An attribute cannot contain content. The name of the attribute and the element that contains it are indicated in the message text.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

CCQD111S  The XML structure of the *member_name* product index member is not valid. Content is required for the *attribute_name* attribute in the *element_name* element, but content was not found.

**Explanation:** An attribute requires content. The name of the attribute and the element that contains it are indicated in the message text.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

CCQD112S  The content of the *member_name* product index member is not valid. The *configuration_id* configuration ID for the *configuration-name* configuration name is not unique.

**Explanation:**

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

CCQD113S  The content of the *member_name* product index member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.

**Explanation:** The specified attribute in the product index member is unknown.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

CCQD118S  The content of the *member_name* product index member is not valid. The *configuration_id* configuration ID for the *configuration-name* configuration name is not unique.

**Explanation:**

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

CCQD120S  The content of the *member_name* product index member is not valid. The pack ID *pack_id* that is referenced by product prefix *product_prefix* in the metadata library *library_name* could not be found.

**Explanation:** The specified pack ID could not be found in the metadata library.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.
<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Explanation</th>
<th>System action</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCQD121I</td>
<td>The specified pack contains the component_name, which was previously specified as a stand-alone product.</td>
<td>The specified component of the pack was previously specified as a stand-alone product.</td>
<td>None.</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQD122I</td>
<td>The specified component metadata library was previously specified as part of the pack_name.</td>
<td>The specified metadata library for the component was previously specified as part of a pack.</td>
<td>None.</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQD123E</td>
<td>The customization library library_name is being used by another product or component. Specify another customization library qualifier on the Tools Customizer Settings panel.</td>
<td>A different product or component is using the specified customization library.</td>
<td>None.</td>
<td>Specify another customization library qualifier on the Tools Customizer Settings panel.</td>
</tr>
<tr>
<td>CCQD300W</td>
<td>The member_name product environment member is not valid. The PL/I XML parser issued the following exception warning code: code_number.</td>
<td>While determining if the product environment member is valid, the PL/I XML parser issued the specified exception warning code.</td>
<td>Processing continues.</td>
<td>See the Enterprise PL/I for z/OS Programming Guide for more information about the specified exception warning code.</td>
</tr>
<tr>
<td>CCQD301S</td>
<td>The member_name product environment member is not valid. Content is required for the element_name element, but content was not found.</td>
<td>The specified element does not contain required content.</td>
<td>Processing stops.</td>
<td>See the Enterprise PL/I for z/OS Programming Guide for more information about the specified exception warning code.</td>
</tr>
<tr>
<td>CCQD302S</td>
<td>The XML structure of the member_name product environment member is not valid. The element_name element is unknown.</td>
<td>The specified product environment member contains an unknown element.</td>
<td>Processing stops.</td>
<td>See the Enterprise PL/I for z/OS Programming Guide for more information about the specified exception error code.</td>
</tr>
<tr>
<td>CCQD303S</td>
<td>The XML structure of the member_name product environment member is not valid. Content is not allowed for the element_name element, but content was found.</td>
<td>Content was found for an element that cannot contain content.</td>
<td>Processing stops.</td>
<td>See the Enterprise PL/I for z/OS Programming Guide for more information about the specified exception error code.</td>
</tr>
<tr>
<td>CCQD304S</td>
<td>The XML structure of the member_name product environment member is not valid. Content is required for the element_name element, but content was not found.</td>
<td>The specified element does not contain required content.</td>
<td>Processing stops.</td>
<td>See the Enterprise PL/I for z/OS Programming Guide for more information about the specified exception error code.</td>
</tr>
<tr>
<td>CCQD305S</td>
<td>The XML structure of the member_name product environment member is not valid. The content length for the element_name element exceeds maximum_number characters.</td>
<td>The specified element contains too many characters.</td>
<td>Processing stops.</td>
<td>See the Enterprise PL/I for z/OS Programming Guide for more information about the specified exception error code.</td>
</tr>
</tbody>
</table>
CCQD306S The XML structure of the member_name product environment member is not valid. The element_name element cannot occur more than maximum_number times.

Explanation: The specified element occurs too many times in the product environment member.

System action: Processing stops.


CCQD307S The XML structure of the member_name product environment member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur enough times in the product environment member.

System action: Processing stops.


CCQD308S The XML structure of the member_name product environment member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation: The specified attribute occurs too many times. The name of the attribute and the element that contains it are indicated in the message text.

System action: Processing stops.


CCQD309S The XML structure of the member_name product environment member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation: The specified attribute does not occur enough times in the product environment member.

System action: Processing stops.


CCQD310S The XML structure of the member_name product environment member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation: The specified attribute cannot contain content. The name of the attribute and the element that contains it are indicated in the message text.

System action: Processing stops.


CCQD311S The XML structure of the member_name product environment member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.

Explanation: The specified attribute requires content. The name of the attribute and the name of the element that contains it are indicated in the message text.

System action: Processing stops.


CCQD312S The XML structure of the member_name product environment member is not valid. The content length for the element_name element exceeds maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.


CCQD313S The XML structure of the member_name product environment member is not valid. The attribute_name attribute in the element_name element is unknown.

Explanation: The specified attribute in the product environment member is unknown.

System action: Processing stops.

CCQD350I The subsystem_ID DB2 subsystem is associated with this product.

Explanation: The specified DB2 subsystem was added and saved in the Tools Customizer data store for the product to be customized.

System action: Processing continues.

User response: No action is required.

CCQD351I The member_name DB2 member for the group_attach_name DB2 group attach name is associated with this product.

Explanation: The specified DB2 member for the group attach name was added and saved in the Tools Customizer data store for the product to be customized.

System action: Processing continues.

User response: No action is required.

CCQD352I The group_attach_name DB2 group attach name is associated with this product.

Explanation: The specified DB2 group attach name was added and saved in the Tools Customizer data store for the product to be customized.

System action: Processing continues.

User response: No action is required.

CCQD353E The subsystem_ID DB2 subsystem is already associated with this product.

Explanation: The specified DB2 subsystem cannot be added for the product to be customized because it already exists in the product environment in the data store.

System action: None.

User response: Ensure that the DB2 subsystem is specified correctly. If the problem persists, contact IBM Software Support.

CCQD354E The member_name DB2 member for the group_attach_name DB2 group attach name is already associated with this product.

Explanation: The specified DB2 member for the group attach name cannot be added for the product to be customized because it already exists in the product environment in the data store.

System action: None.

User response: Ensure that the DB2 group attach name is specified correctly. If the problem persists, contact IBM Software Support.

CCQD355E The group_attach_name DB2 group attach name is already associated with this product.

Explanation: The specified DB2 group attach name cannot be added for the product to be customized because it already exists in the product environment in the data store.

System action: Processing stops.

User response: Ensure that the DB2 group attach name is specified correctly. If the problem persists, contact IBM Software Support.

CCQD356S The library_name metadata library is already associated with the maximum number of allowed DB2 entries for this product.

Explanation: The specified metadata library cannot be associated with more DB2 entries because it is already associated with the number of DB2 entries that are allowed.

System action: Processing stops.

User response: Delete an associated DB2 entry, and associate the specified library with another DB2 entry again.

CCQD357I The subsystem_ID DB2 subsystem is unassociated with this product.

Explanation: The specified DB2 SSID was unassociated with the product that you are customizing.

System action: Processing continues.

User response: No action is required.

CCQD358I The member_name DB2 member for the group_attach_name DB2 group attach name is unassociated with this product.

Explanation: The specified DB2 member for the DB2 group attach name was unassociated with the product that you are customizing.

System action: Processing continues.

User response: No action is required.

CCQD359I The group_attach_name DB2 group attach name is unassociated with this product.

Explanation: The specified DB2 group attach name was unassociated with the product that you are customizing.

System action: Processing continues.

User response: No action is required.
CCQD360S  The library_name metadata library is not associated with the specified DB2 subsystem subsystem_ID.

Explanation: The specified DB2 subsystem and metadata library are not associated with each other.

System action: None.

User response: Ensure that the DB2 subsystem and the metadata library are associated. If the problem persists, contact IBM Software Support.

CCQD361S  The library_name metadata library is not associated with the specified DB2 data sharing group member member_name for the group_attach_name DB2 group attach name.

Explanation: The specified DB2 data sharing group member for the group attach name and metadata library are not associated with each other.

System action: None.

User response: Ensure that the DB2 data sharing group member for the group attach name and the metadata library are associated. If the problem persists, contact IBM Software Support.

CCQD362S  The library_name metadata library is not associated with the specified group_attach_name DB2 group attach name.

Explanation: The specified DB2 group attach name and metadata library are not associated with each other.

System action: None.

User response: Ensure that the DB2 group attach name and the metadata library are associated. If the problem persists, contact IBM Software Support.

CCQD401S  The customization parser issued the code_number error code while it parsed the product customization member member_name. See the PL/I programming guide for more information about this XML parser terminating exception code.

Explanation: While determining if the specified member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the error.

CCQD500W  The data_set_name data store data set was not found.

Explanation: Tools Customizer could not find the specified data store data set.

System action: None.

User response: No action is required.

CCQD501W  The data_set_name data store data set was not found, so it was created.

Explanation: Tools Customizer created the specified data set because it could not be found.

System action: None.

User response: No action is required.

CCQD502E  The data_set_name data store data set is not writable.

Explanation: Tools Customizer cannot write to the specified data set.

System action: None.

User response: Ensure that the data set is writable.

CCQD503E  The data_set_name data store data set could not be opened with the disposition_type disposition.

Explanation: Tools Customizer could not open the data set with the specified disposition.

System action: Processing stops.

User response: Ensure that you have WRITE authority access to this data set.

CCQD504E  The data_set_name data store data set could not be opened with the option_name option.

Explanation: Tools Customizer could not open the data set with the specified option.
System action: Processing stops.
User response: Ensure that you have WRITE authority access to this data set.

---

CCQD505E The data_set_name data store data set could not be created.
Explanation: Tools Customizer could not create the specified data set.
System action: Processing stops.
User response: Ensure that you have the authority to create data sets and that the DASD is not full.

---

CCQD510I The DB2 SSID and DB2 group attach name were created.
Explanation: The DB2 SSID and DB2 group attach name were created and saved in the data store.
System action: None.
User response: No action is required.

---

CCQD511E The DB2 entry already exists in the list of DB2 entries to be associated.
Explanation: The DB2 entry cannot be added because it already exists in the list of DB2 entries to be associated.
System action: None.
User response: Specify a different DB2 entry.

---

CCQD512S An error occurred while a DB2 entry was being created.
Explanation: A severe error occurred while a DB2 entry was being created.
System action: Processing stops.

---

CCQD513E The specified DB2 entry already exists and is associated with the current product on the Customizer Workplace panel.
Explanation: The DB2 entry cannot be added because it already exists and it is already associated with the product to be customized.
System action: None.
User response: Press F3 to go to the Customizer Workplace panel to see the DB2 entry, or specify a different DB2 entry.

---

CCQD514E A value is required for a DB2 subsystem, a DB2 group attach name, or both before they can be created.
Explanation: Required information is missing. A DB2 subsystem, a DB2 group attach name, or both must be specified.
System action: None.
User response: Specify a DB2 subsystem, a DB2 group attach name, or both.

---

CCQD515E The specified DB2 entry already exists in the list of DB2 entries and is already associated with the current product.
Explanation: The DB2 entry has already been created and associated with the product that you want to customize.
System action: None.
User response: Specify a different DB2 entry.

---

CCQD516S An error occurred while a DB2 entry was being copied.
Explanation: A severe error occurred while a DB2 entry was being copied.
System action: Processing stops.

---

CCQD517S An error occurred while a DB2 entry was being copied.
Explanation: A severe error occurred while a DB2 entry was being copied.
System action: Processing stops.

---

CCQD518E A value is required for a DB2 subsystem, a DB2 group attach name, or both before they can be copied.
Explanation: Required information is missing. A DB2 subsystem, a DB2 group attach name, or both must be specified.
System action: None.
User response: Specify a DB2 subsystem, a DB2 group attach name, or both.
CCQD519I  The DB2 entry was copied.
Explanation:  The DB2 entry was copied and saved in the Tools Customizer data store.
System action:  None.
User response:  No action is required.

CCQD520S  The DB2 entry was copied to the list of DB2 entries but was not associated because the product is already associated with the allowed number of DB2 entries.
Explanation:  The DB2 entry was not completely copied because a product can be associated with only 1200 DB2 entries.
System action:  Processing stops.
User response:  Remove a DB2 entry from the list, and copy the specified DB2 entry again.

CCQD521E  Line_command is not a valid line command.
Explanation:  The specified line command is not valid. Valid line commands are on the panel.
System action:  Processing stops.
User response:  Specify a valid line command.

CCQD522E  The subsystem_ID DB2 subsystem ID occurs more than once in the list. Each row must be unique.
Explanation:  The specified DB2 subsystem ID can be used only once.
System action:  Processing stops.
User response:  Specify a different DB2 subsystem ID.

CCQD523E  The group_attach_name DB2 group attach name occurs more than once in the list. Each row must be unique.
Explanation:  The specified DB2 group attach name can be used only once.
System action:  Processing stops.
User response:  Specify a different DB2 group attach name.

CCQD524E  The member_name DB2 member for the DB2 group attach name occurs more than once in the list. Each row must be unique.
Explanation:  The specified DB2 member for the DB2 group attach name can be used only once.
System action:  Processing stops.
User response:  Specify another DB2 subsystem.

CCQD525I  The DB2 entries were created.
User response:  No action is required.

CCQD526E  The subsystem_ID DB2 subsystem ID occurs more than once in the list. Each DB2 subsystem ID must be unique.
Explanation:  The specified DB2 subsystem ID can be used only once.
System action:  Processing stops.
User response:  Specify a different DB2 subsystem ID.

CCQD527I  DB2 group attach names cannot be created during the copy process.
Explanation:  The ability to create DB2 group attach names is not available during the copy process.
System action:  None.
User response:  Create DB2 group attach names by issuing the CREATE command on the Customizer Workplace panel.

CCQD528E  The metadata_library metadata library is already associated with number DB2 entries. The maximum number of associated DB2 entries for this metadata library is 256.
Explanation:  A metadata library can be associated with a maximum of 256 DB2 entries. The specified metadata library is already associated with 256.
System action:  Processing stops.
User response:  Remove an existing association between the specified metadata library and a DB2 entry, and associate the specified the metadata library with another entry.

CCQD529I  At least one row is required.

CCQD560E  The subsystem_ID DB2 subsystem already exists and is associated with the current product on the Customizer Workplace panel.
Explanation:  The specified DB2 subsystem exists and is associated with the product that you are customizing.
System action:  None.
User response:  Specify another DB2 subsystem.
CCQD561E The member_name DB2 member for the group_attach_name DB2 group attach name already exists and is associated with the current product on the Customizer Workplace panel.

Explanation: The specified DB2 data sharing group for the DB2 group attach name exists and is associated with the product that you are customizing.

System action: None.

User response: Specify another DB2 subsystem.

CCQD562E The group_attach_name DB2 group attach name already exists and is associated with the current product on the Customizer Workplace panel.

Explanation: The specified DB2 group attach name exists and is associated with the product that you are customizing. The subsystem is in the table on the Customizer Workplace panel.

System action: None.

User response: Specify another DB2 group attach name.

CCQD563E A value is required for a DB2 subsystem, a DB2 group attach name, or both before they can be created.

Explanation: A DB2 subsystem, a DB2 group attach name, or both are not specified so one or both of them cannot be created.

System action: None.

User response: Specify a value for the DB2 subsystem, the DB2 group attach name, or both.

CCQD565E The subsystem_ID DB2 subsystem already exists in the list of DB2 entries and is already associated with the current product.

Explanation: The specified subsystem is already associated.

System action: None.

User response: Specify a different DB2 subsystem.

CCQD566E The member_name DB2 member for the group_attach_name DB2 group attach name already exists in the list of DB2 entries and is already associated with the current product.

Explanation: The specified DB2 member is already associated.

System action: None.

User response: Specify a different DB2 member.

CCQD567E The group_attach_name DB2 group attach name already exists in the list of DB2 entries and is already associated with the current product.

Explanation: The specified DB2 group attach name is already associated.

System action: None.

User response: Specify another DB2 group attach name.

CCQD568I To customize product_name, at least one DB2 entry must be associated with this product.

Explanation: The specified product requires at least one associated DB2 entry.

System action: None.

User response: To continue the customization process for the specified product, associate one or more DB2 entries with it.

CCQD569I To customize the product_name product configuration, at least one DB2 entry must be associated with this configuration.

Explanation: The configuration for the specified product requires at least one associated DB2 entry.

System action: None.

User response: To continue the customization process for the configuration of the specified product, associate one or more DB2 entries with the configuration.

CCQD577W The mode_name DB2 mode of the subsystem_ID DB2 subsystem is not supported by the product.

Explanation: The product does not support the specified DB2 mode.

System action: None.

User response: Specify a supported DB2 mode.

CCQD578W The mode_name DB2 mode of the member_name DB2 member for the DB2 group is not supported by the product.

Explanation: The product does not support the specified DB2 mode.

System action: None.

User response: Specify a supported DB2 mode.
The mode_name DB2 mode of the group_name DB2 group attach name is not supported by the product.

Explanation: The product does not support the specified DB2 mode.

System action: None.

User response: Specify a supported DB2 mode.

The subsystem_ID DB2 subsystem was copied to the list of DB2 entries but was not associated because the product is already associated with the allowed number of DB2 entries.

Explanation: The copied DB2 subsystem was not associated with the product because the product is associated with the maximum number of DB2 entries.

System action: None.

User response: Remove an associated DB2 entry and associate the product with the copied DB2 subsystem.

The member_name DB2 member for the group_attach_name DB2 group attach name was copied to the list of DB2 entries but was not associated because the product is already associated with the allowed number of DB2 entries.

Explanation: The copied DB2 member for the DB2 group attach name was not associated with the product because the product is associated with the maximum number of DB2 entries.

System action: None.

User response: Remove an associated DB2 entry and associate the product with the copied DB2 member.

The group_attach_name DB2 group attach name was copied to the list of DB2 entries but was not associated because the product is already associated with the allowed number of DB2 entries.

Explanation: The copied DB2 group attach name was not associated with the product because the product is associated with the maximum number of DB2 entries.

System action: None.

User response: Remove an associated DB2 entry and associate the product with the copied DB2 group attach name.

The level_number DB2 level of the subsystem_name DB2 subsystem is not supported by the product.

Explanation: The product does not support the specified DB2 level.

System action: Processing continues.

User response: Specify a supported level of DB2.

The level_number DB2 level of the member_name DB2 member of the group_name DB2 group is not supported by the product.

Explanation: The product does not support the specified DB2 level.

System action: Processing continues.

User response: Specify a supported level of DB2.

The level_number DB2 level of the group_name DB2 group attach name is not supported by the product.

Explanation: The product does not support the specified DB2 level.
System action: Processing continues.
User response: Specify a supported level of DB2.

CCQD593I  The subsystem_ID DB2 subsystem was deleted.
User response: No action is required.

CCQD594I  The member_name DB2 for the group_attach_name DB2 group attach name was deleted.
User response: No action is required.

CCQD595I  The group_attach_name DB2 group attach name was deleted.
User response: No action is required.

CCQD596E  The subsystem_ID DB2 subsystem was not deleted.
Explanation: An internal error occurred while the specified DB2 subsystem was being deleted.
System action: Processing stops.

CCQD597E  The member_name DB2 member for the group_attach_name DB2 group attach name was not deleted.
Explanation: An internal error occurred while the specified DB2 member was being deleted.
System action: Processing stops.

CCQD598E  The group_attach_name DB2 group attach name was not deleted.
Explanation: An internal error occurred while the specified DB2 group attach name was being deleted.
System action: Processing stops.

CCQD600W  The member_name product customization member is not valid. The PL/I XML parser issued the following exception warning code: code_number.
Explanation: While determining if the XML structure of the product customization member is valid, the PL/I XML parser issued an exception warning code.
System action: Processing continues.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

CCQD601S  The member_name product customization member is not valid. The PL/I XML parser issued the following exception error code: code_number.
Explanation: While determining if the XML structure of the product customization member is valid, the PL/I XML parser issued an exception error code.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code.

CCQD602S  The XML structure of the member_name product customization member is not valid. The element_name element is unknown.
Explanation: The data store member contains an unknown element.
System action: Processing stops.

CCQD603S  The XML structure of the member_name product customization member is not valid. Content is not allowed for the element_name element, but content was found.
Explanation: The specified element cannot contain content.
System action: Processing stops.

CCQD604S  The XML structure of the member_name product customization member is not valid. Content is required for the element_name element, but content was not found.
Explanation: The specified element is missing required content.
System action: Processing stops.
CCQD605S  The XML structure of the member_name product customization member is not valid. The content length for the element_name element exceeds maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.


CCQD606S  The XML structure of the member_name product customization member is not valid. The element_name element cannot occur more than maximum_number times.

Explanation: The specified element occurs too many times.

System action: Processing stops.


CCQD607S  The XML structure of the member_name product customization member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur enough times.

System action: Processing stops.


CCQD608S  The XML structure of the member_name product customization member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation: The specified attribute occurs too many times.

System action: Processing stops.


CCQD609S  The XML structure of the member_name product customization member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.


CCQD610S  The XML structure of the member_name product customization member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation: The specified attribute cannot contain content.

System action: Processing stops.


CCQD611S  The XML structure of the member_name product customization member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.

Explanation: The specified attribute does not contain required content.

System action: Processing stops.


CCQD612S  The XML structure of the member_name product customization member is not valid. The content length for the element_name element exceeds maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.

**CCQD613S** The XML structure of the member_name product customization member is not valid. The attribute_name attribute in the element_name element is unknown.

**Explanation:** The specified attribute in the data store member is unknown.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

---

**CCQD614S** The content of the member_name product customization member is not valid. The value of the element_name element is not valid. The value is value_name.

**Explanation:** The specified value is not valid.

**System action:** Processing stops.

**User response:** See “Gathering diagnostic information” on page 99. Contact IBM Software Support.

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**CCQD700W** The member_name DB2 data member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

**Explanation:** While determining if the XML structure of the DB2 data member is valid, the PL/I XML parser issued an exception warning code.

**System action:** Processing continues.

**User response:** See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

---

**CCQD701S** The member_name DB2 data member is not valid. The PL/I XML parser issued the following exception error code: code_number.

**Explanation:** While determining if the XML structure of the DB2 data member is valid, the PL/I XML parser issued an exception error code.

**System action:** Processing continues.

**User response:** See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code.

---

**CCQD750W** The value_number value in the member_name DB2 parameter parameter_name was skipped because only maximum_number values are allowed.

**Explanation:** The specified value was skipped because it exceeds the number of allowed values in the DB2 parameter.

**System action:** Processing continues.

**User response:** No action is required. To stop this message from being issued, remove the extra values from the DB2 parameter.

---

**CCQD800W** The member_name LPAR data member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

**Explanation:** While determining if the XML structure of the LPAR data member is valid, the PL/I XML parser issued an exception warning code.

**System action:** Processing continues.

**User response:** See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

---

**CCQD801S** The member_name LPAR data member is not valid. The PL/I XML parser issued the following exception error code: code_number.

**Explanation:** While determining if the XML structure of the LPAR data member is valid, the PL/I XML parser issued an exception error code.

**System action:** Processing continues.

**User response:** See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code.

---

**CCQD850W** The value_number value in the LPAR parameter parameter_name was skipped because only maximum_number values are allowed.

**Explanation:** The specified value was skipped because it exceeds the number of allowed values in the LPAR parameter.

**System action:** Processing continues.

**User response:** No action is required. To stop this message from being issued, remove the extra values from the LPAR parameter.

---

**CCQD851I** The subsystem_ID DB2 subsystem is copied to the member_name DB2 member for the group_attach_name DB2 group attach name.

**User response:** No action is required.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCQD852I</td>
<td>The member_name DB2 member for the group_attach_name DB2 group attach name is copied to the member_name DB2 member for the group_attach_name DB2 group attach name.</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQD854I</td>
<td>The member_name DB2 member for the group_attach_name DB2 group attach name is copied to multiple DB2 entries.</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQD900W</td>
<td>The member_name product data member is not valid. The PL/I XML parser issued the following exception warning code: code_number.</td>
<td>See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.</td>
</tr>
<tr>
<td>CCQD901S</td>
<td>The member_name product data member is not valid. The PL/I XML parser issued the following exception error code: code_number.</td>
<td>Specify a DB2 group attach name, DB2 subsystem ID, or both.</td>
</tr>
<tr>
<td>CCQD950W</td>
<td>The value_number value in the product parameter parameter_name was skipped because only maximum_number values are allowed.</td>
<td>Tools Customizer stops.</td>
</tr>
<tr>
<td>CCQD960I</td>
<td>The subsystem_ID DB2 subsystem was changed to the member_name DB2 member for the group_attach_name DB2 group attach name.</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQD961I</td>
<td>The member_name DB2 member for the group_attach_name DB2 group attach name was changed to the subsystem_ID DB2 subsystem.</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQD962I</td>
<td>The member_name DB2 member for the group_attach_name DB2 group attach name was changed to the member_name DB2 member for the group_attach_name DB2 group attach name.</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQD963E</td>
<td>The DB2 group attach name cannot be blank when the DB2 subsystem ID is blank.</td>
<td>Specify a DB2 group attach name, DB2 subsystem ID, or both.</td>
</tr>
<tr>
<td>CCQE000S</td>
<td>The specified message field name or message message_ID was not found.</td>
<td>Contact IBM Software Support.</td>
</tr>
<tr>
<td>CCQE001E</td>
<td>An incorrect trace level was specified. Valid trace levels are 0 - 4.</td>
<td>Specify a valid trace level 0 - 4.</td>
</tr>
<tr>
<td>CCQH001W</td>
<td>The specified option option_name is not valid.</td>
<td>Tools Customizer stops.</td>
</tr>
</tbody>
</table>
CCQH006W Before you customize a product, verify your user settings.

Explanation: The user settings must be verified before a product can be customized.

System action: Tools Customizer stops.

User response: Specify a valid option on the panel.

CCQH007E Check the user settings. One or more current values are not valid.

Explanation: One or more of the values in the user settings is not valid.

System action: Tools Customizer stops.

User response: Verify the user settings.

CCQH008W Before you use Tools Customizer, you must select option 0 to verify your user settings.

Explanation: The user settings must be changed before a product can be customized.

System action: Tools Customizer stops.

User response: Ensure that the specified values for the user settings are valid.

CCQH009E You must select option 0 to change your user settings.

Explanation: User settings must be changed before a product can be customized.

System action: Tools Customizer stops.

User response: Change the user settings.

CCQI000W The XML structure of the member_name DB2 parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

Explanation: While determining if the DB2 parameter metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

CCQI001S The XML structure of the member_name DB2 parameter metadata member is not valid. The PL/I XML parser issued the following exception error code: code_number.

Explanation: While determining if the DB2 parameter metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code.

CCQI002S The XML structure of the member_name DB2 parameter metadata member is not valid. The element_name element is unknown.

Explanation: The specified element in the DB2 parameter metadata member is unknown.

System action: Processing stops.


CCQI003S The XML structure of the member_name DB2 parameter metadata member is not valid. Content is not allowed for the element_name element, but content was found.

Explanation: The specified element cannot contain content.

System action: Processing stops.


CCQI004S The XML structure of the member_name DB2 parameter metadata member is not valid. Content is required for the element_name element, but content was not found.

Explanation: The specified element requires content.

System action: Processing stops.


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CCQI005S  The XML structure of the member_name DB2 parameter metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.


CCQI006S  The XML structure of the member_name DB2 parameter metadata member is not valid. The content length for the element_name element must be at least minimum_number characters.

Explanation: The specified element does not contain enough characters.

System action: Processing stops.


CCQI007S  The XML structure of the member_name DB2 parameter metadata member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur enough times.

System action: Processing stops.


CCQI008S  The XML structure of the member_name DB2 parameter metadata member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation: The specified attribute occurs too many times.

System action: Processing stops.


CCQI009S  The XML structure of the member_name DB2 parameter metadata member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation: The specified attribute did not occur enough times.

System action: Processing stops.


CCQI010S  The XML structure of the member_name DB2 parameter metadata member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation: The specified attribute cannot have content.

System action: Processing stops.


CCQI011S  The XML structure of the member_name DB2 parameter metadata member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.

Explanation: The specified attribute is missing required content.

System action: Processing stops.


CCQI012S  The XML structure of the member_name DB2 parameter metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.

CCQI013S The XML structure of the member_name DB2 parameter metadata member is not valid. The attribute_name attribute in the element_name element is unknown.

Explanation: The specified attribute in the DB2 parameter metadata member is unknown.

System action: Processing stops.


CCQI014S The content of the member_name DB2 parameter metadata member is not valid because the value of the element_name element is incorrect. The value is value_name.

Explanation: The specified value of the element is not a valid value.

System action: Processing stops.


CCQI015S The content of the DB2 parameter metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value of the attribute is value_name.

Explanation: The specified value of the attribute is not a valid value.

System action: Processing stops.


CCQI016S The content of the DB2 parameter metadata member is not valid because the data type of the element_name element is incorrect. The value is value_name.

Explanation: The specified data type is not a valid data type.

System action: Processing stops.


CCQI017S The content of the DB2 parameter metadata member is not valid because the data type of the attribute_name attribute in the element_name element is incorrect. The value of the attribute is value_name.

Explanation: The specified data type is not a valid data type.

System action: Processing stops.


CCQI050S The member_name DB2 parameter metadata member was not found in the data_set_name data set.

Explanation: Tools Customizer could not find the specified DB2 parameter metadata member.

System action: Processing stops.


CCQI051S The parameter_name LPAR parameter in the template_name template does not have associated metadata in the member_name LPAR parameter metadata member.

Explanation: The specified template does not contain metadata for an LPAR parameter. The name of the LPAR parameter metadata member, the name of the LPAR parameter, and the name of the template are indicated in the message text.

System action: Processing stops.


CCQI052S The parameter_name product parameter in the template_name template does not have associated metadata in the member_name product parameter metadata member.

Explanation: The specified template does not contain metadata for a product parameter. The name of the product parameter metadata member, the name of the product parameter, and the name of the template are indicated in the message text.

System action: Processing stops.

CCQI053E  The following metadata data set was not found: data_set_name.

Explanation:  Tools Customizer could not find the specified metadata data set.

System action:  Processing stops.

User response:  Ensure that the metadata data set is specified correctly. If the problem persists, contact IBM Software Support.

CCQI054E  The following metadata data set could not be opened: data_set_name.

Explanation:  Tools Customizer could not open the specified LPAR metadata data set.

System action:  Processing stops.

User response:  Ensure the metadata data set was specified correctly.

CCQI055S  The CCQ$DB2 DB2 parameter metadata member was not found in the data_set_name Tools Customizer metadata data set.

Explanation:  Tools Customizer could not find the DB2 parameter metadata member in the specified Tools Customizer metadata data set.

System action:  Processing stops.


CCQI056S  The CCQ$LPAR LPAR parameter metadata member was not found in the data_set_name data set.

Explanation:  Tools Customizer could not find the specified LPAR parameter metadata member.

System action:  Processing stops.


CCQI057S  The member_name product parameter metadata member was not found in the data_set_name data set.

Explanation:  The product parameter metadata member was not found in the specified data set.

System action:  Processing stops.


CCQI058I  product_name does not have any DB2 parameters.

Explanation:  DB2 parameters are not required to customize the specified product.

System action:  Processing continues.

User response:  No action is required.

CCQI059I  product_name does not have any LPAR parameters.

Explanation:  LPAR parameters are not required to customize the specified product.

System action:  Processing continues.

User response:  No action is required.

CCQI060S  The parameter_name DB2 parameter in the task_description task condition does not have associated metadata in the member_name DB2 parameter metadata member.

Explanation:  Associated metadata is missing for the specified DB2 parameter in a task.

System action:  Processing stops.


CCQI061S  The parameter_name LPAR parameter in the task_description task condition does not have associated metadata in the member_name LPAR parameter metadata member.

Explanation:  Associated metadata is missing for the specified LPAR parameter in a task.

System action:  Processing stops.


CCQI062S  The parameter_name product parameter in the task_description task condition does not have associated metadata in the member_name product parameter metadata member.

Explanation:  Associated metadata is missing for the specified product parameter in a task.

System action:  Processing stops.

CCQI063S The parameter_name DB2 parameter in the task_description task and the step_description step does not have associated metadata in the member_name DB2 parameter metadata member.

Explanation: Associated metadata is missing for the specified DB2 parameter in a task and step.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI064S The parameter_name LPAR parameter in the task_description task and the step_description step does not have associated metadata in the member_name LPAR parameter metadata member.

Explanation: Associated metadata is missing for the specified LPAR parameter in a task and step.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI065S The parameter_name product parameter in the task_description task and the step_description step does not have associated metadata in the member_name product parameter metadata member.

Explanation: Associated metadata is missing for the specified product parameter in a task and step.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI066S The parameter_name DB2 parameter in the task_description task, step_description step, and template_name template condition does not have associated metadata in the member_name DB2 parameter metadata member.

Explanation: Associated metadata is missing for the specified DB2 parameter in a task, step, and template.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI067S The parameter_name LPAR parameter in the task_description task, step_description step, and template_name template condition does not have associated metadata in the member_name LPAR parameter metadata member.

Explanation: Associated metadata is missing for the specified LPAR parameter in a task, step, and template.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI068S The parameter_name product parameter in the task_description task, step_description step, and template_name template condition does not have associated metadata in the member_name product parameter metadata member.

Explanation: Associated metadata is missing for the specified product parameter in a task, step, and template.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI069S Product metadata does not support multiple configurations, but the template_name product template contains the parameter_name parameter. Enable multiple configurations support for this product, and try again.

Explanation: The specified template contains a parameter for multiple configurations, but the product is not enabled to support multiple configurations.

System action: Processing stops.

User response: Enable multiple configurations support, and try again.

CCQI070E The parameter_name DB2 parameter metadata member is not valid. The default length for the parameter_element_name parameter element exceeds the length of the parameter. The default length is default_length, and the specified length is specified_length. The default length will be truncated accordingly.

Explanation: The specified length cannot be shorter than the default length.

System action: Processing stops.
CCQI071E  The parameter_name LPAR parameter metadata member is not valid. The default length for the parameter-element_name parameter element exceeds the length of the parameter. The default length is default_length, and the specified length is specified_length. The default length will be truncated accordingly.

Explanation: The specified length cannot be shorter than the default length.

System action: Processing stops.


CCQI071E  The parameter_name LPAR parameter metadata member is not valid. The default length for the parameter-element_name parameter element exceeds the length of the parameter. The default length is default_length, and the specified length is specified_length. The default length will be truncated accordingly.

Explanation: The specified length cannot be shorter than the default length.

System action: Processing stops.


CCQI072E  The parameter_name product parameter metadata member is not valid. The default length for the parameter-element_name parameter element exceeds the length of the parameter. The default length is default_length, and the specified length is specified_length. The default length will be truncated accordingly.

Explanation: The specified length cannot be shorter than the default length.

System action: Processing stops.


CCQI073E  The XML structure of the member_name LPAR parameter metadata member is not valid. The following value of the attribute_name attribute in the element_name element already exists: value_name.

Explanation: The specified value already exists for an attribute.

System action: Processing stops.


CCQI074E  The XML structure of the member_name LPAR parameter metadata member is not valid. The following value of the attribute_name attribute in the element_name element already exists: value_name.

Explanation: The specified value already exists for an attribute.

System action: Processing stops.


CCQI075E  The XML structure of the member_name product parameter metadata member is not valid. The following value of the attribute_name attribute in the element_name element already exists: value_name.

Explanation: The specified value already exists for an attribute.

System action: Processing stops.


CCQI076S  The XML structure of the member_name DB2 parameter metadata member is not valid. The parameter_name parameter refers to the section-name section. This section was not found in the DB2 parameter metadata member.

Explanation: The specified value already exists for an attribute.

System action: Processing stops.


CCQI077E  The XML structure of the member_name LPAR parameter metadata member is not valid. The parameter_name parameter refers to the section-name section. This section was not found in the LPAR parameter metadata member.

Explanation: The specified parameter refers to a section that is not in the LPAR parameter metadata member.

System action: Processing stops.

CCQI078S  The XML structure of the member_name product parameter metadata member is not valid. The parameter_name parameter refers to the section-name section. This section was not found in the product parameter metadata member.

Explanation: The specified parameter refers to a section that is not in the product parameter metadata member.

System action: Processing stops.


CCQI080S The content of the member_name DB2 parameter metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value of the attribute is value_name.

Explanation: The specified value for an attribute in the DB2 parameter metadata member is not valid.

System action: Processing stops.


CCQI081S The content of the member_name LPAR parameter metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value of the attribute is value_name.

Explanation: The specified value for an attribute in the LPAR parameter metadata member is not valid.

System action: Processing stops.


CCQI082S The content of the member_name product parameter metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value of the attribute is value_name.

Explanation: The specified value for an attribute in the product parameter metadata member is not valid.

System action: Processing stops.


CCQI090S The product-defined DB2 parameter parameter_name in the member_name parameter metadata member references the section_ID section ID, but this ID does not exist in either the parameter metadata member or the DB2 parameter metadata member.

Explanation: A section that does not exist in the parameter metadata member or the DB2 parameter metadata member is referenced by the specified DB2 parameter.

System action: Processing stops.


CCQI091S The product-defined LPAR parameter in the member_name parameter metadata member references the section_ID section ID, but this ID does not exist in either the parameter metadata member or the LPAR parameter metadata member.

Explanation: A section that does not exist in the parameter metadata member or the LPAR parameter metadata member is being referenced by the specified LPAR parameter.

System action: Processing stops.


CCQI092S The overridden DB2 parameter parameter_name in the member_name parameter metadata member does not exist in the DB2 parameter metadata member.

Explanation: The specified parameter does not exist.

System action: Processing stops.


CCQI093S The overridden LPAR parameter parameter_name in the member_name parameter metadata member does not exist in the LPAR parameter metadata member.

Explanation: The specified parameter does not exist.

System action: Processing stops.

CCQI094S  The CCQ$$PRD product customization parameter metadata member was not found in the data_set_name data set.

Explanation:  The specified data set must contain the CCQ$$PRD product customization parameter metadata member.

System action:  Processing stops.


CCQI100W  The XML structure of the member_name LPAR parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

Explanation:  While determining if the LPAR parameter metadata member is valid, the PL/I XML parser issued an exception warning code.

System action:  Processing continues.

User response:  See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

CCQI101S  The XML structure of the member_name LPAR parameter metadata member is not valid. The PL/I XML parser issued the following exception error code: code_number.

Explanation:  While determining if the LPAR parameter metadata member is valid, the PL/I XML parser issued an exception error code.

System action:  Processing stops.

User response:  See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code.

CCQI102S  The XML structure of the member_name LPAR parameter metadata member is not valid. The element_name element is unknown.

Explanation:  The specified element in the LPAR parameter metadata member is unknown.

System action:  Processing stops.


CCQI103S  The XML structure of the member_name LPAR parameter metadata member is not valid. Content is not allowed for the element_name element, but content was found.

Explanation:  The specified element cannot contain content.

System action:  Processing stops.


CCQI104S  The XML structure of the member_name LPAR parameter metadata member is not valid. Content is required for the element_name element, but content was not found.

Explanation:  The specified element requires content.

System action:  Processing stops.


CCQI105S  The XML structure of the member_name LPAR parameter metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation:  The specified element contains too many characters.

System action:  Processing stops.


CCQI106S  The XML structure of the member_name LPAR parameter metadata member is not valid. The content length for the element_name element must be at least minimum_number characters.

Explanation:  The specified element does not contain enough characters.

System action:  Processing stops.

CCQI107S The XML structure of the member_name LPAR parameter metadata member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur enough times.

System action: Processing stops.


CCQI108S The XML structure of the member_name LPAR parameter metadata member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation: The specified attribute occurs too many times.

System action: Processing stops.


CCQI109S The XML structure of the member_name LPAR parameter metadata member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation: The specified attribute did not occur enough times.

System action: Processing stops.


CCQI110S The XML structure of the member_name LPAR parameter metadata member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation: The specified attribute cannot have content.

System action: Processing stops.


CCQI111S The XML structure of the member_name LPAR parameter metadata member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.

Explanation: The specified attribute is missing required content.

System action: Processing stops.


CCQI112S The XML structure of the member_name LPAR parameter metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.


CCQI113S The XML structure of the member_name LPAR parameter metadata member is not valid. The attribute_name attribute in the element_name element is unknown.

Explanation: The specified attribute in the LPAR parameter metadata member is unknown.

System action: Processing stops.


CCQI114S The content of the member_name LPAR parameter metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation: The specified value for an element in the LPAR parameter metadata member is not valid.

System action: Processing stops.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
<th>Explanation</th>
<th>System action</th>
<th>User response</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CCQI115S</strong></td>
<td>The content of the member_name LPAR parameter metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value of the attribute is value_name.</td>
<td>The specified value for an attribute in the LPAR parameter metadata member is not valid.</td>
<td>Processing stops.</td>
<td>See “Gathering diagnostic information” on page 99 Contact IBM Software Support.</td>
</tr>
<tr>
<td><strong>CCQI116S</strong></td>
<td>The content of the member_name LPAR parameter metadata member is not valid because the data type of the element_name element is incorrect. The value is value_name.</td>
<td>The specified data type value for an element in the LPAR parameter metadata member is not valid.</td>
<td>Processing stops.</td>
<td>See “Gathering diagnostic information” on page 99 Contact IBM Software Support.</td>
</tr>
<tr>
<td><strong>CCQI117S</strong></td>
<td>The content of the member_name LPAR parameter metadata member is not valid because the data type of the attribute_name attribute in the element_name element is incorrect. The value is value_name.</td>
<td>The specified data type value for an attribute in the LPAR parameter metadata member is not valid.</td>
<td>Processing stops.</td>
<td>See “Gathering diagnostic information” on page 99 Contact IBM Software Support.</td>
</tr>
<tr>
<td><strong>CCQI120S</strong></td>
<td>The XML structure of the member_name DB2 parameter metadata member is not valid. The element_name element in the parameter_name parameter contains duplicate values for the element_name element. The duplicate value is value_name.</td>
<td>An element contains the specified duplicate value.</td>
<td>Processing stops.</td>
<td>See “Gathering diagnostic information” on page 99 Contact IBM Software Support.</td>
</tr>
<tr>
<td><strong>CCQI121S</strong></td>
<td>The XML structure of the member_name LPAR parameter metadata member is not valid. The element_name element in the parameter_name parameter contains duplicate values for the element_name element. The duplicate value is value_name.</td>
<td>An element contains the specified duplicate value.</td>
<td>Processing stops.</td>
<td>See “Gathering diagnostic information” on page 99 Contact IBM Software Support.</td>
</tr>
<tr>
<td><strong>CCQI122S</strong></td>
<td>The XML structure of the member_name product customization parameter metadata member is not valid. The element_name element in the parameter_name parameter contains duplicate values for the element_name element. The duplicate value is value_name.</td>
<td>An element contains the specified duplicate value.</td>
<td>Processing stops.</td>
<td>See “Gathering diagnostic information” on page 99 Contact IBM Software Support.</td>
</tr>
<tr>
<td><strong>CCQI123S</strong></td>
<td>The XML structure of the member_name discover metadata member is not valid. The element_name element in the parameter_name parameter contains duplicate values for the element_name element. The duplicate value is value_name.</td>
<td>An element contains the specified duplicate value.</td>
<td>Processing stops.</td>
<td>See “Gathering diagnostic information” on page 99 Contact IBM Software Support.</td>
</tr>
<tr>
<td><strong>CCQI124S</strong></td>
<td>The XML structure of the member_name product customization parameter metadata member is not valid. The element_name element in the parameter_name parameter contains duplicate values for the element_name element. The duplicate value is value_name.</td>
<td>An element contains the specified duplicate value.</td>
<td>Processing stops.</td>
<td>See “Gathering diagnostic information” on page 99 Contact IBM Software Support.</td>
</tr>
</tbody>
</table>
Explanation: An element contains the specified duplicate value.
System action: Processing stops.

**CCQI200W**  
The XML structure of the member_name information metadata member is not valid. The PL/I XML parser issued the following exception warning code: code_number.
Explanation: While determining if the information metadata member is valid, the PL/I XML parser issued an exception warning code.
System action: Processing continues.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

**CCQI201S**  
The XML structure of the member_name information metadata member is not valid. The PL/I XML parser issued the following exception error code: code_number.
Explanation: While determining if the information metadata member is valid, the PL/I XML parser issued an exception error code.
System action: Processing continues.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code.

**CCQI202S**  
The XML structure of the member_name information metadata member is not valid. The element_name element is unknown.
Explanation: The specified element in the information metadata member is unknown.
System action: Processing stops.

**CCQI203S**  
The XML structure of the member_name information metadata member is not valid. Content is not allowed for the element_name element, but content was found.
Explanation: The specified element cannot contain content.
System action: Processing stops.

**CCQI204S**  
The XML structure of the member_name information metadata member is not valid. Content is required for the element_name element, but content was not found.
Explanation: The specified element requires content.
System action: Processing stops.

**CCQI205S**  
The XML structure of the member_name information metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.
Explanation: The specified element contains too many characters.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code.

**CCQI206S**  
The XML structure of the member_name information metadata member is not valid. The content length for the element_name element must be at least minimum_number characters.
Explanation: The specified element does not contain enough characters.
System action: Processing stops.

**CCQI207S**  
The XML structure of the member_name information metadata member is not valid. The element_name element must occur at least minimum_number times.
Explanation: The specified element does not occur enough times.
System action: Processing stops.
CCQI208S  The XML structure of the member_name information metadata member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation:  The specified attribute occurs too many times.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI209S  The XML structure of the member_name information metadata member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation:  The specified attribute did not occur enough times.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI210S  The XML structure of the member_name information metadata member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation:  The specified attribute cannot have content.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI211S  The XML structure of the member_name information metadata member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.

Explanation:  The specified attribute is missing required content.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI212S  The XML structure of the member_name information metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation:  The specified element contains too many characters.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI213S  The XML structure of the member_name information metadata member is not valid. The attribute_name attribute in the element_name element is unknown.

Explanation:  The specified attribute in the information metadata member is unknown.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI214S  The content of the member_name information metadata member is not valid because the value of the element_name element is incorrect. The value is value_name.

Explanation:  The specified value for an element in the information metadata member is not valid.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.

CCQI215S  The content of the member_name information metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation:  The specified value for an attribute in the information metadata member is not valid.

System action:  Processing stops.

User response:  See “Gathering diagnostic information” on page 99 Contact IBM Software Support.
| CCQI216S | The content of the member_name information metadata member is not valid because the data type of the element_name element is incorrect. The value is value_name. |
| Explanation: | The specified data type value for an element in the information metadata member is not valid. |
| System action: | Processing stops. |

| CCQI217S | The content of the member_name information metadata member is not valid because the data type of the attribute_name attribute in the element_name element is incorrect. The value is value_name. |
| Explanation: | The specified data type value for an attribute in the information metadata member is not valid. |
| System action: | Processing stops. |

| CCQI218S | The content of the member_name information metadata member is not valid. The length of the value_name value of the attribute_name attribute is longer than the value_name value of the attribute_name attribute. |
| Explanation: | The first specified value cannot be longer than the second specified value. |
| System action: | Processing stops. |

| CCQI219S | The content of the member_name information metadata member is not valid. The value_name value of the attribute_name attribute contains the value_name value. |
| Explanation: | The first specified value cannot be longer than the second specified value. |
| System action: | Processing stops. |

| CCQI220S | The XML structure of the member_name information metadata member is not valid. Content for the attribute_name attribute in the element_name element exceed maximum_number characters. |
| Explanation: | The specified attribute contains too many characters. |
| System action: | Processing stops. |

| CCQI223S | The XML structure of the member_name information metadata member is not valid. The value that is specified for the DB2 Level already exists. The value is value_name. |
| Explanation: | The specified value already exists. |
| System action: | Processing stops. |
| User response: | Specify a different DB2 level. If the problem persists, contact IBM Software Support. |

| CCQI224S | The XML structure of the member_name information metadata member is not valid. The value that is specified for the DB2 Mode already exists. The value is value_name. |
| Explanation: | The specified value already exists. |
| System action: | Processing stops. |
| User response: | Specify a different DB2 mode. If the problem persists, contact IBM Software Support. |

| CCQI250S | The information metadata member was not found in the data_set_name data set. |
| Explanation: | Tools Customizer could not find the information metadata member in the specified data set. |
| System action: | Processing stops. |
| User response: | If this message was issued on the Specify the Metadata Library (CCQPHLQ) panel, specify the product metadata library. The name of this library is hlq.SDYXDENU. Do not specify the Tools Customizer metadata library, which is hlq.SCCQDENU. |
| If the problem persists, identify the name of the Tools Customizer trace data set and contact IBM Software Support. |
CCQI251E The member_name member was not accessible in the data_set_name data set.

Explanation: The specified member could not be accessed in the data set.

System action: Processing stops.

User response: Specify the correct metadata library.

CCQI252S The information metadata member was not found in the library_name component metadata library that is part of the library_name pack metadata library. The name of the pack is pack_name.

Explanation: The specified component metadata library does not contain the information metadata member.

System action: Processing stops.

User response: Specify the correct metadata library.

CCQI253E The library_name Tools Customizer metadata library is not current. Update the metadata library on the Tools Customizer Settings panel.

Explanation: The specified metadata library is not current.

System action: Processing stops.

User response: Specify a current metadata library on the Tools Customizer Settings panel.

CCQI300W The XML structure of the member_name sequence metadata member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

Explanation: While determining if the sequence metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

CCQI301S The XML structure of the member_name sequence metadata member is not valid. The element_name element is unknown.

Explanation: The specified element in the sequence metadata member is unknown.

System action: Processing stops.


CCQI302S The XML structure of the member_name sequence metadata member is not valid. Content is not allowed for the element_name element, but content was found.

Explanation: The specified element cannot contain content.

System action: Processing stops.


CCQI303S The XML structure of the member_name sequence metadata member is not valid. Content is required for the element_name element, but content was not found.

Explanation: The specified element is missing required content.

System action: Processing stops.


CCQI304S The XML structure of the member_name sequence metadata member is not valid. Content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.


CCQI305S The XML structure of the member_name sequence metadata member is not valid.
CCQI306S The XML structure of the member_name sequence metadata member is not valid. The element_name element cannot occur more than maximum_number times.

Explanation: The specified element occurs too many times.

System action: Processing stops.


CCQI307S The XML structure of the member_name sequence metadata member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur enough times.

System action: Processing stops.


CCQI308S The XML structure of the member_name sequence metadata member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation: The specified attribute occurs too many times.

System action: Processing stops.


CCQI309S The XML structure of the member_name sequence metadata member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.


CCQI310S The XML structure of the member_name sequence metadata member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation: The specified value for an element in the sequence metadata member is not valid.

System action: Processing stops.


CCQI311S The XML structure of the member_name sequence metadata member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.

Explanation: The specified attribute in the sequence metadata member is unknown.

System action: Processing stops.


CCQI312S The XML structure of the member_name sequence metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.


CCQI313S The XML structure of the member_name sequence metadata member is not valid. The attribute_name attribute in the element_name element is unknown.

Explanation: The specified attribute in the sequence metadata member is unknown.

System action: Processing stops.


CCQI314S The content of the member_name sequence metadata member is not valid because the value of the element_name element is incorrect. The value is value_name.

Explanation: The specified value for an element in the sequence metadata member is not valid.

System action: Processing stops.

CCQI315S  The content of the member_name sequence metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation: The specified value for an attribute in the sequence metadata member is not valid.

System action: Processing stops.


CCQI316S  The content of the member_name sequence metadata member is not valid because the data type of the element_name element is incorrect. The value is value_name.

Explanation: The specified data type value for an element in the sequence metadata member is not valid.

System action: Processing stops.


CCQI317S  The content of the member_name sequence metadata member is not valid because the data type of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation: The specified data type value for an attribute in the sequence metadata member is not valid.

System action: Processing stops.


CCQI350S  The XML structure of the member_name sequence metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation: A specified value for an attribute in the sequence metadata member is not valid.

System action: Processing stops.


CCQI351S  The member_name sequence metadata member was not found in the data_set_name metadata data set.

Explanation: Tools Customizer could not find the specified sequence metadata member in the metadata data set.

System action: Processing stops.


CCQI352S  The template_name product template was not found in the data_set_name metadata data set.

Explanation: Tools Customizer could not find the specified product template in the data set.

System action: Processing stops.


CCQI353S  The sequence metadata member was not found in the data_set_name component data set that is part of the data_set_name pack.

Explanation: Tools Customizer could not find the sequence metadata member.

System action: Processing stops.


CCQI360S  The XML structure of the member_name sequence metadata member is not valid. The value of the attribute_name attribute in the element_name element already exists.

Explanation: The specified attribute contains a value that already exists.

System action: Processing stops.


CCQI361S  The XML structure of the member_name sequence metadata member is not valid. The condition element on the level_type level already contains a relational operator.

Explanation: A relational operator already exists for the condition element on the specified level.
CCQI362S  The XML structure of the member_name sequence metadata member is not valid. The condition element on the level_type level must contain only one content string or content number element.

Explanation: Only one content string element or content number element can be contained in the condition element on the specified level.

System action: Processing stops.
User response: See “Gathering diagnostic information” on page 99 | Contact IBM Software Support.

CCQI363S  The XML structure of the member_name sequence metadata member is not valid. The condition element in the element_name element with the attribute_name attribute must contain either the content string element or content number element.

Explanation: Either the content string element or the content number element must be in the condition element.

System action: Processing stops.
User response: See “Gathering diagnostic information” on page 99 | Contact IBM Software Support.

CCQI400W  The XML structure of the member_name parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

Explanation: While determining the parameter metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

CCQI401S  The XML structure of the member_name parameter metadata member is not valid. Content is not allowed for the element_name element, but content was found.

Explanation: The specified element cannot contain content.

System action: Processing stops.
User response: See “Gathering diagnostic information” on page 99 | Contact IBM Software Support.

CCQI402S  The XML structure of the member_name parameter metadata member is not valid. The element_name element is unknown.

Explanation: The specified element in the parameter metadata member is unknown.

System action: Processing stops.
User response: See “Gathering diagnostic information” on page 99 | Contact IBM Software Support.

CCQI403S  The XML structure of the member_name parameter metadata member is not valid. Content is required for the element_name element, but content was not found.

Explanation: The specified element requires content.

System action: Processing stops.
User response: See “Gathering diagnostic information” on page 99 | Contact IBM Software Support.

CCQI404S  The XML structure of the member_name parameter metadata member is not valid. Content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.
User response: See “Gathering diagnostic information” on page 99 | Contact IBM Software Support.

CCQI405S  The XML structure of the member_name parameter metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.
User response: See “Gathering diagnostic information” on page 99 | Contact IBM Software Support.
<table>
<thead>
<tr>
<th>CCQI406S</th>
<th>The XML structure of the <code>member_name</code> parameter metadata member is not valid. The content length for the <code>element_name</code> element must be at least <code>minimum_number</code> characters.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The specified element does not contain enough characters.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Processing stops.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>See “Gathering diagnostic information” on page 99. Contact IBM Software Support.</td>
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<th>CCQI407S</th>
<th>The XML structure of the <code>member_name</code> parameter metadata member is not valid. The <code>element_name</code> element must occur at least <code>minimum_number</code> times.</th>
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<tr>
<td><strong>Explanation:</strong></td>
<td>The specified element does not occur enough times.</td>
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<tr>
<td><strong>System action:</strong></td>
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<th>CCQI408S</th>
<th>The XML structure of the <code>member_name</code> parameter metadata member is not valid. The <code>attribute_name</code> attribute in the <code>element_name</code> element cannot occur more than <code>maximum_number</code> times.</th>
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<tr>
<td><strong>Explanation:</strong></td>
<td>The specified attribute occurs too many times.</td>
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<td><strong>System action:</strong></td>
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<th>CCQI410S</th>
<th>The XML structure of the <code>member_name</code> parameter metadata member is not valid. Content is not allowed for the <code>attribute_name</code> attribute in the <code>element_name</code> element, but content was found.</th>
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<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>The specified attribute cannot have content.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Processing stops.</td>
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<td><strong>User response:</strong></td>
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<th>CCQI411S</th>
<th>The XML structure of the <code>member_name</code> parameter metadata member is not valid. Content is required for the <code>attribute_name</code> attribute in the <code>element_name</code> element, but content was not found.</th>
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<td><strong>Explanation:</strong></td>
<td>The specified attribute is missing required content.</td>
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<td><strong>System action:</strong></td>
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<th>CCQI412S</th>
<th>The XML structure of the <code>member_name</code> parameter metadata member is not valid. The content length for the <code>element_name</code> element cannot exceed <code>maximum_number</code> characters.</th>
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<td><strong>Explanation:</strong></td>
<td>The specified element contains too many characters.</td>
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<tr>
<td><strong>System action:</strong></td>
<td>Processing stops.</td>
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<td><strong>Explanation:</strong></td>
<td>The specified attribute in the parameter metadata member is unknown.</td>
</tr>
<tr>
<td><strong>System action:</strong></td>
<td>Processing stops.</td>
</tr>
<tr>
<td><strong>User response:</strong></td>
<td>See “Gathering diagnostic information” on page 99. Contact IBM Software Support.</td>
</tr>
</tbody>
</table>
CCQI414S  The content of the member_name parameter metadata member is not valid because the value of the element_name element is incorrect. The value is value_name.

Explanation: The specified value for an element in the parameter metadata member is not valid.

System action: Processing stops.


CCQI415S  The content of the member_name parameter metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation: The specified value for an attribute in the parameter metadata member is not valid.

System action: Processing stops.


CCQI416S  The content of the member_name parameter metadata member is not valid because the data type of the element_name element is incorrect. The value is value_name.

Explanation: The specified data type value for an element in the parameter metadata member is not valid.

System action: Processing stops.


CCQI417S  The content of the member_name parameter metadata member is not valid because the data type of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation: The specified data type value for an attribute in the parameter metadata member is not valid.

System action: Processing stops.


CCQI420S  The XML structure of the member_name parameter metadata member is not valid. The element_name element is unknown for the overridden DB2 parameter.

Explanation:

System action: Processing stops.


CCQI421S  The XML structure of the member_name parameter metadata member is not valid. The element_name element is unknown for the overridden LPAR parameter.

Explanation:

System action: Processing stops.


CCQI422S  The XML structure of the member_name parameter metadata member is not valid. The attribute_name attribute in the element_name element is unknown for the overridden DB2 parameter.

Explanation:

System action: Processing stops.


CCQI423S  The XML structure of the member_name parameter metadata member is not valid. The attribute_name attribute in the element_name element is unknown for the overridden LPAR parameter.

Explanation:

System action: Processing stops.


CCQI450S  The member_name product parameter metadata member was not found in the data_set_name data set.

Explanation: Tools Customizer could not find the specified product parameter metadata member.

System action: Processing stops.
CCQI510W  The data_set_name data store data set does not exist.
Explanation: The specified data store data set does not exist.
System action: Processing continues.

CCQI511S  The data_set_name data store data set cannot be opened by using the disposition_type disposition.
Explanation: The specified data store data set could not be opened with the specified disposition.
System action: Processing continues.

CCQI512S  The data_set_name data store data set cannot be opened by using the option-type option.
Explanation: The specified data store data set was unable to be opened with the specified option.
System action: Processing stops.

CCQI600W  The XML structure of the member_name product customization parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: code_number.
Explanation: While determining if the product customization parameter metadata member is valid, the PL/I XML parser issued an exception error code.
System action: Processing continues.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the warning.

CCQI601S  The XML structure of the member_name product customization parameter metadata member is not valid. The element_name element is unknown.
Explanation: The specified product customization parameter metadata member contains an unknown element.
System action: Processing stops.

CCQI602S  The XML structure of the member_name product customization parameter metadata member is not valid. Content is not allowed for the element_name element, but content was found.
Explanation: Content was found in an element that cannot contain content.
System action: Processing stops.

CCQI603S  The XML structure of the member_name product customization parameter metadata member is not valid. Content is required for the element_name element, but content was not found.
Explanation: The specified element does not contain required content.
System action: Processing stops.

CCQI604S  The XML structure of the member_name product customization parameter metadata member is not valid. The content length for the element_name element 'cannot exceed maximum_number characters.
Explanation: The specified element contains too many characters.
System action: Processing stops.
System action: Processing stops.

CCQI607S The XML structure of the member_name product customization parameter metadata member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur enough times in the product customization parameter metadata member.

System action: Processing stops.

CCQI608S The XML structure of the member_name product customization parameter metadata member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation: The specified attribute occurs too many times in the product customization parameter metadata member.

System action: Processing stops.

CCQI609S The XML structure of the member_name product customization parameter metadata member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation: The specified attribute occurs too many times in the product customization parameter metadata member.

System action: Processing stops.

CCQI610S The XML structure of the member_name product customization parameter metadata member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation: Content was found in an element that cannot contain content.

System action: Processing stops.

CCQI611S The XML structure of the member_name product customization parameter metadata member is not valid. Content is required for the attribute_name attribute 'in the element_name element, but content was not found.

Explanation: The specified attribute does not contain required content.

System action: Processing stops.

CCQI612S The XML structure of the member_name product customization parameter metadata member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation: The specified attribute occurs too many times in the product customization parameter metadata member.

System action: Processing stops.

CCQI613S The XML structure of the member_name product customization parameter metadata member is not valid. The attribute_name attribute is unknown.

Explanation: The specified product customization parameter metadata member contains an unknown attribute.
System action: Processing stops.

CCQI614S  The XML structure of the member_name product customization parameter metadata member is not valid. The value of the element_name element is not valid. The value is value_name.
Explanation: The specified value of the element is not a valid value.
System action: Processing stops.

CCQI615S  The XML structure of the member_name product customization parameter metadata member is not valid. The value of the attribute_name attribute for the element_name element is not valid. The value is value_name.
Explanation: The specified value of the attribute is not a valid value.
System action: Processing stops.

CCQI616S  The XML structure of the member_name product customization parameter metadata member is not valid. The data type of the element_name element is ‘not valid. The value of the element is value_name.
Explanation: The specified data type is not a valid data type.
System action: Processing stops.

CCQI617S  The XML structure of the member_name product customization parameter metadata member is not valid. The data type of the attribute_name attribute for the element_name element is not valid. The value of the attribute is value_name.
Explanation: The specified data type is not a valid data type.
System action: Processing stops.

CCQI650S  The XML structure of the member_name product customization parameter metadata member is not valid. The following value of the attribute_name attribute in the element_name element already exists: value_name.
Explanation: The specified value for an attribute already exists.
System action: Processing stops.

CCQI651S  The XML structure of the member_name product customization parameter metadata member is not valid. The parameter_name parameter refers to the following section, which was not found in the member_name product customization parameter metadata member: section-name.
Explanation: The specified section is not in the product customization parameter metadata member.
System action: Processing stops.

CCQI652S  The member_name product customization parameter metadata member not valid. The default length for the element_name parameter element exceeds the length of the parameter. The default length is default_length, and the specified length is specified_length. The default length will be truncated accordingly.
Explanation: The specified length cannot be shorter than the default length.
System action: Processing stops.

CCQI653S  The content of the member_name product customization parameter metadata member is not valid. The value of the attribute_name attribute in the element_name element is not valid. The value of the attribute is value_name.
CCQI700W  The XML structure of the member_name solution pack metadata member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

Explanation: While determining if the specified solution pack metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the warning.

CCQI701S  The XML structure of the member_name solution pack metadata member is not valid. The PL/I XML parser issued the following exception error code: code_number.

Explanation: While determining if the specified solution pack metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the error.

CCQI702S  The XML structure of the member_name solution pack metadata member is not valid. The element_name element is unknown.

Explanation: The specified solution pack metadata member contains an unknown element.

System action: Processing stops.


CCQI703S  The XML structure of the member_name solution pack metadata member is not valid. Content is not allowed for the element_name element, but content was found

Explanation: Content was found in an element that cannot contain content.

System action: Processing stops.


CCQI704S  The XML structure of the member_name solution pack metadata member is not valid. Content is required for the element_name element, but content was not found.

Explanation: The specified element does not contain required content.

System action: Processing stops.


CCQI705S  The XML structure of the member_name solution pack metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.

System action: Processing stops.


CCQI706S  The XML structure of the member_name solution pack metadata member is not valid. The element_name element cannot occur more than maximum_number times.

Explanation: The specified element occurs too many times.

System action: Processing stops.


CCQI707S  The XML structure of the member_name solution pack metadata member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur enough times.

System action: Processing stops.

<table>
<thead>
<tr>
<th>Condition Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCQI708S</td>
<td>The XML structure of the member_name solution pack metadata member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.</td>
</tr>
<tr>
<td><strong>Explanation</strong>:</td>
<td>The specified attribute occurs too many times.</td>
</tr>
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<td><strong>System action</strong>:</td>
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<td>CCQI709S</td>
<td>The XML structure of the member_name solution pack metadata member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.</td>
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<tr>
<td><strong>Explanation</strong>:</td>
<td>The specified attribute does not occur enough times.</td>
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<tr>
<td>CCQI710S</td>
<td>The XML structure of the member_name solution pack metadata member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.</td>
</tr>
<tr>
<td><strong>Explanation</strong>:</td>
<td>The specified attribute cannot have content.</td>
</tr>
<tr>
<td><strong>System action</strong>:</td>
<td>Processing stops.</td>
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<td>CCQI711S</td>
<td>The XML structure of the member_name solution pack metadata member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.</td>
</tr>
<tr>
<td><strong>Explanation</strong>:</td>
<td>The specified attribute is missing content.</td>
</tr>
<tr>
<td><strong>System action</strong>:</td>
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<td>CCQI712S</td>
<td>The XML structure of the member_name solution pack metadata member is not valid. The content length for the attribute_name attribute in the element_name element cannot exceed maximum_number characters.</td>
</tr>
<tr>
<td><strong>Explanation</strong>:</td>
<td>The specified attribute contains too many characters.</td>
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<td><strong>System action</strong>:</td>
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<tr>
<td>CCQI713S</td>
<td>The XML structure of the member_name solution pack metadata member is not valid. The attribute_name attribute in the element_name element is unknown.</td>
</tr>
<tr>
<td><strong>Explanation</strong>:</td>
<td>The specified attribute in the solution pack metadata member is unknown.</td>
</tr>
<tr>
<td><strong>System action</strong>:</td>
<td>Processing stops.</td>
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<tr>
<td>CCQI714S</td>
<td>The XML structure of the member_name solution pack metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value is value_name.</td>
</tr>
<tr>
<td><strong>Explanation</strong>:</td>
<td>The specified value of the element is not a valid value.</td>
</tr>
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<td><strong>System action</strong>:</td>
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<td>CCQI715S</td>
<td>The XML structure of the member_name solution pack metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value of the attribute is value_name.</td>
</tr>
<tr>
<td><strong>Explanation</strong>:</td>
<td>The specified value of the attribute is not a valid value.</td>
</tr>
<tr>
<td><strong>System action</strong>:</td>
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CCQI716S  The XML structure of the member_name solution pack metadata member is not valid because the data type of the element_name element is incorrect. The value is value_name.

Explanation: The specified data type is not a valid data type.

System action: Processing stops.


CCQI717S  The XML structure of the member_name solution pack metadata member is not valid because the data type of the attribute_name attribute in the element_name element is incorrect. The value of the attribute is value_name.

Explanation: The specified data type is not a valid data type.

System action: Processing stops.


CCQI720S  The XML structure of the member_name solution pack metadata member is not valid. The msg element is required for the component_name component that is not customizable.

Explanation: The msg element is required for the specified component, which cannot be customized by using Tools Customizer.

System action: Processing stops.


CCQI750S  The solution pack metadata member was not found in the library_name metadata library.

Explanation: Tools Customizer could not find the solution pack metadata member in the specified library.

System action: Processing stops.


CCQM002E  The command_name line command is not valid: .

Explanation: The specified line command is not valid.

System action: Processing continues.

User response: Specify a valid line command on the panel.
CCQO000W  The XML structure of the member_name discover parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: code_number.

Explanation: While determining if the discover parameter metadata member is valid, the PL/I XML parser issued an exception warning code.
System action: Processing continues.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception warning code.

CCQO001S  The XML structure of the member_name discover parameter metadata member is not valid. The PL/I XML parser issued the following exception error code: code_number.

Explanation: While determining if the Discover metadata member is valid, the PL/I XML parser issued an exception error code.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code. Contact IBM Software Support.

CCQO002S  The XML structure of the member_name discover parameter metadata member is not valid. The element_name element is unknown.

Explanation: The specified element in the discover parameter metadata member is unknown.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code. Contact IBM Software Support.

CCQO003S  The XML structure of the member_name discover parameter metadata member is not valid. Content is not allowed for the element_name element, but content was found.

Explanation: The specified element cannot contain content.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code. Contact IBM Software Support.

CCQO004S  The XML structure of the member_name discover parameter metadata member is not valid. Content is required for the element_name element, but content was not found.

Explanation: The specified element is missing required content.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code. Contact IBM Software Support.

CCQO005S  The XML structure of the member_name discover parameter metadata member is not valid. The content length for the element_name element cannot exceed maximum_number characters.

Explanation: The specified element contains too many characters.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code. Contact IBM Software Support.

CCQO006S  The XML structure of the member_name discover parameter metadata member is not valid. The element_name element cannot occur more than maximum_number times.

Explanation: The specified element occurs too many times.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code. Contact IBM Software Support.

CCQO007S  The XML structure of the member_name discover parameter metadata member is not valid. The element_name element must occur at least minimum_number times.

Explanation: The specified element does not occur enough times.
System action: Processing stops.
User response: See the Enterprise PL/I for z/OS Programming Guide for more information about the exception error code. Contact IBM Software Support.
CCQ008S  The XML structure of the member_name discover parameter metadata member is not valid. The attribute_name attribute in the element_name element cannot occur more than maximum_number times.

Explanation: The specified attribute occurs too many times.

System action: Processing stops.


CCQ009S  The XML structure of the member_name discover parameter metadata member is not valid. The attribute_name attribute in the element_name element must occur at least minimum_number times.

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.


CCQ010S  The XML structure of the member_name discover parameter metadata member is not valid. Content is not allowed for the attribute_name attribute in the element_name element, but content was found.

Explanation: The specified attribute cannot contain content.

System action: Processing stops.


CCQ011S  The XML structure of the member_name discover parameter metadata member is not valid. Content is required for the attribute_name attribute in the element_name element, but content was not found.

Explanation: The specified attribute requires content.

System action: Processing stops.


CCQ012S  The XML structure of the member_name discover parameter metadata member is not valid. The content length for the attribute_name attribute in the element_name element in the cannot exceed maximum_number characters.

Explanation: The specified attribute contains too many characters.

System action: Processing stops.


CCQ013S  The XML structure of the member_name discover parameter metadata member is not valid. The attribute_name attribute in the element_name element is unknown.

Explanation: The specified attribute is unknown.

System action: Processing stops.


CCQ014S  The content of the member_name discover parameter metadata member is not valid because the value of the element_name element is incorrect. The value is value_name.

Explanation: The specified value for an element in the discover parameter metadata member is not valid.

System action: Processing stops.


CCQ015S  The content of the member_name discover parameter metadata member is not valid because the value of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation: The specified value for an attribute in the discover parameter metadata member is not valid.

System action: Processing stops.

CCQO016S The content of the member_name discover parameter metadata member is not valid because the data type of the element_name element is incorrect. The value is value_name.

Explanation: The specified data type value for an element in the discover parameter metadata member is not valid.

System action: Processing stops.


CCQO017S The content of the member_name product parameter metadata member is not valid because the data type of the attribute_name attribute in the element_name element is incorrect. The value is value_name.

Explanation: The specified data type value for an attribute in the product parameter metadata member is not valid.

System action: Processing stops.


CCQO050S The data_set_name Discover REXX EXEC data set could not be initialized or was not found.

Explanation: Tools Customizer could not find or could not initialize the specified Discover REXX EXEC data set.

System action: Processing stops.

User response: Ensure that the Discover REXX EXEC is specified correctly.

CCQO051W The data_sharing_group_ID data sharing group ID cannot contain more than four characters.

Explanation: The specified data sharing group ID contains too many characters.

System action: Processing continues.

User response: Ensure that the specified data sharing group ID does not exceed four characters.

CCQO052S The REXX_EXEC_name Discover REXX EXEC was not found in the data_set_name Discover data set.

Explanation: Tools Customizer could not find the Discover REXX EXEC in the specified data set.

System action: Processing stops.

User response: Ensure that the Discover data set was specified correctly.

CCQO053W The LPAR_name LPAR name cannot contain more than eight characters.

Explanation: The specified LPAR name contains too many characters.

System action: Processing continues.

User response: Ensure that the specified LPAR name does not exceed eight characters.

CCQO054W The subsystem_ID DB2 SSID cannot contain more than four characters. The record was not processed.

Explanation: The specified DB2 SSID contains too many characters.

System action: Processing continues.

User response: Ensure that the specified DB2 SSID does not exceed four characters.

CCQO055W The parameter_name DB2 group attach name parameter is in the record_name Discover record, but a DB2 group attach name was not specified. The record was not processed.

Explanation: The Discover record contains a data sharing group parameter, but a DB2 group attach name was not specified.

System action: Processing continues.

User response: Ensure that information is specified correctly on the Discover Customized Product Information panel.

CCQO056W The parameter_name DB2 parameter in the record_name Discover record did not have a DB2 group attach name or a DB2 SSID. The record was not processed.

Explanation: The Discover record did not have a DB2 group attach name or a DB2 subsystem ID in the DB2 parameter.

System action: Processing continues.

User response: Ensure that information is specified correctly on the Discover Customized Product Information panel.

CCQO057W The Discover EXEC could not find the parameter_name parameter in the metadata for the product to be customized. The record was not processed.
Explanation: The specified parameter could not be found in the metadata for the product to be customized.

System action: Processing continues.

User response: Ensure that information is specified correctly on the Discover Customized Product Information panel.

CCQO058W The parameter_name product parameter name in the record_type Discover record does not start with CCQ_LPR_, CCQ_DB2_, or CCQ_PRD_. The record was not processed.

Explanation: The parameter in the record does not start with CCQ_DB2_, CCQ_LPAR_, or CCQ_PRD_.

System action: Processing continues.

User response: If this parameter is required, contact IBM Software Support.

CCQO059W The parameter_name product parameter cannot contain more than 72 characters. The record was not processed.

Explanation: The specified product parameter contains too many characters.

System action: Processing continues.

User response: Ensure that the specified product parameter does not exceed 72 characters.

CCQO060W The record_name Discover record from the REXX EXEC output must start with the following record_type: record_type. The record was not processed.

Explanation: A Discover record from the REXX EXEC output must start with the specified DB2 record type.

System action: Processing continues.

User response: If you do not have a previously customized version of the product, do not run the Discover EXEC. Press END to go to the Customizer Workplace panel.

Explanation: This message is issued when you customize a product for the first time. It prompts you to use the Discover EXEC to discover data from a previous customization of the specified product.

System action: Processing continues.

User response: Using the Discover EXEC saves time and reduces errors that can occur when parameters are specified manually. If you want to use the Discover EXEC, specify the required information on the Discover Customized Product Information panel. Otherwise, press End to continue without discovering data from a previous customization of the product.

Tip: Using the Discover EXEC saves time and reduces errors that can occur when parameters are specified manually. If you want to use the Discover EXEC, specify the required information on the Discover Customized Product Information panel. Otherwise, press End to continue without discovering data from a previous customization of the product.

CCQO062W The Discover EXEC could not find the following parameter_name parameter in the DB2 metadata. The record was not processed.

Explanation: The specified parameter is missing in the DB2 metadata.

System action: Processing continues.


CCQO064W The Discover-record Discover record did not have a parameter_name. The record was not processed.

Explanation: A parameter name was missing in the Discover record.

System action: Processing continues.


CCQO065W The value for the parameter_name parameter is ignored because it has more than maximum_number characters, which is the maximum length that is defined in the metadata. The value is parameter_value.

Explanation: The specified value exceeded the maximum allowed length, which was defined in the metadata. Tools Customizer truncated the extra characters.

System action: Processing continues.


CCQO066W The record_name Discover record from the Discover REXX EXEC output does not have a parameter value. The record was not processed.

Explanation: The Discover record was missing a parameter value from the Discover EXEC output.

System action: Processing continues.

User response: Ensure that information was specified correctly on the Discover Customized Product Information panel.
correctly on the Discover Customized Product Information panel.

CCQO067W  The parameter_name parameter is defined in the metadata to support one value, but more than one value was found. The last value was used.

Explanation: The definition of the parameter in the metadata supports one value, but more than one value was specified. Only the last value was used.

System action: Processing continues.

User response: Ensure that information was specified correctly on the Discover Customized Product Information panel.

CCQO068W  The value of the parameter_name parameter is ignored because the parameter is defined as internal=true. The value is value_name.

Explanation: The specified value of the parameter is ignored because it is defined as internal=true.

System action: Processing continues.

User response: Ensure that information was specified correctly on the Discover Customized Product Information panel.

CCQO069W  The Discover EXEC did not find the parameter_name parameter in the LPAR metadata. The record was not processed.

Explanation: The specified parameter is missing from the LPAR metadata.

System action: Processing continues.

User response: Ensure that information was specified correctly on the Discover Customized Product Information panel.

CCQO070W  The record_type Discover record contains an incorrect delimiter between the Environment section and the Data section. The record was not processed.

Explanation: Tools Customizer found an incorrect delimiter between the Environment section and the Data section.

System action: None.

User response: No action is required.

CCQO071W  The member_name member could not be found in the data_set_name Discover data set.

Explanation: Tools Customizer could not find the specified Discover data set.

CCQO072S  The member_name discover metadata member was not found in the data_set_name metadata data set.

Explanation: Tools Customizer could not find the specified metadata member in the data set.

System action: Processing stops.


CCQO073E  The member_name discover metadata member is not valid because the default length for the element_name parameter element exceeds the length of the parameter. The default length is default_length, and the specified length is specified_length. The default length will be truncated accordingly.

Explanation: The default length for the specified parameter element is longer than the parameter.

System action: Processing continues.

User response: No action is required.

CCQO074S  The content of the member_name discover metadata member is not valid. The value of the attribute_name attribute in the element_name element is not valid. The value of the attribute is value_name.

Explanation: The specified value is not valid.

System action: Processing stops.


CCQO075W  The configuration_ID configuration ID in the record_name Discover record is incorrect. The record was not processed.

Explanation: The specified configuration ID is not correct.

System action: Processing continues.

User response: No action is required.

CCQO076W  The configuration_ID configuration ID cannot contain more than maximum_number characters. The record was not processed.

Explanation: The specified configuration ID contains too many characters.
**CCQO77S** The discover metadata member was not found in the `data_set_name` component data set that is part of the `data_set_name` pack.

**Explanation:** The discover metadata member was not found in the specified component data set.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

**CCQO080I** `Product_name` does not support the Discover process.

**Explanation:** The specified product does not support the Discover process.

**System action:** None.

**User response:** No action is required.

**CCQP000E** The value of the `mode_name` DB2 mode is not valid for the `level_name` DB2 level.

**Explanation:** The specified DB2 mode is not valid for the DB2 level.

**System action:** Processing stops.

**User response:** Specify a valid DB2 mode for the DB2 level.

**CCQP001E** The value of the `mode_name` DB2 mode is missing.

**Explanation:** The specified DB2 mode is not defined.

**System action:** Processing stops.

**User response:** Specify a valid value for the DB2 mode.

**CCQP002E** The value of the `mode_name` DB2 level is missing.

**Explanation:** The specified DB2 level is not defined.

**System action:** Processing stops.

**User response:** Specify a value for the DB2 level.

**CCQP003E** The value of the `level_name` DB2 level is not valid.

**Explanation:** The specified DB2 level does not have a valid name.

**System action:** Processing stops.

**User response:** Specify a valid value for the DB2 level.

**CCQP004S** The `parameter_name` parameter does not exist in the `CCQ$DB2` DB2 parameter metadata member.

**Explanation:** The `CCQ$DB2` DB2 parameter metadata member does not contain the specified parameter.

**System action:** Processing stops.

**User response:** See "Gathering diagnostic information" on page 99. Contact IBM Software Support.

**CCQP005E** The value of the `subsystem_ID` DB2 SSID is missing.

**Explanation:** The specified DB2 SSID is not defined.

**System action:** Processing stops.

**User response:** Specify a valid value for the DB2 SSID.

**CCQP006E** The value of the `group_attach_name` DB2 group attach name is missing.

**Explanation:** The specified DB2 group attach name is not defined.

**System action:** Processing stops.

**User response:** Specify a valid DB2 group attach name.

**CCQQ000E** Specify a valid metadata library. Each qualifier of the library must start with an alphabetic character and must be 1-8 alphanumeric characters. The library name must be 1-44 characters.

**Explanation:** The metadata library was not specified in the correct format. The high-level qualifier must contain alphanumeric characters, and the first character cannot be numeric. The name cannot contain wildcard characters, such as asterisks (*) and percent signs (%).

**System action:** Tools Customizer prompts for the correct library name.

**User response:** Specify a library in the correct format.

If the message was issued on the Specify the Metadata Library (CCQPHLQ) panel, specify the product metadata library. The name of this library is `hlq.SDYXDENU`.

Do not specify the Tools Customizer metadata library, which is `hlq.SCCQDENU`.

**CCQQ001E** The `data_set_name` data set name that was specified for the metadata library was not found.

**Explanation:** The data set does not exist, or the data set name was written in the incorrect format. The high-level qualifier must contain alphanumeric characters, and the first character cannot be numeric.
The name cannot contain wildcard characters, such as asterisks (*) and percent signs (%).

**System action:** Tools Customizer prompts for the correct data set name.

**User response:** Specify a data set name in the correct format.

**Explanation:** Tools Customizer could not open the data set.

**System action:** Tools Customizer prompts for an available data set.

**User response:** Ensure that the specified data set is available for Tools Customizer to open it.

**Explanation:** The specified data set name was not specified in the correct format.

**System action:** None.

**User response:** Specify the data set name in the following format: HLO.SxxxSAMP, where xxx is the three-character prefix for the product.

**Explanation:** Another user is using the specified data set.

**System action:** None.

**User response:** Ensure that the specified data set is not being used.

**Explanation:** The specified data set name was not specified in the correct format.

**System action:** None.

**User response:** Specify another metadata library.

**Explanation:** The specified metadata library is not in the catalog.

**System action:** None.

**User response:** Specify a valid command.

**Explanation:** Tools Customizer is being invoked for the first time or the previous ISPF session ended before Tools Customizer was exited. In both cases, the fields on this panel are populated with default values. Review these default values or specify new values to be used to customize products or packs.

**System action:** Processing stops.

**User response:** Review and accept the default settings, or specify new settings.

**Explanation:** The specified command is not a valid command on the panel.

**System action:** Processing stops.

**User response:** Specify a valid command.
User response: Ensure that the data set name is specified correctly because the data set will be allocated with this name after the values are saved.

CCQS003W The data_set_name Discover data set was not found so it was created.
Explanation: Tools Customizer could not find the specified data set.
System action: Processing continues.
User response: Ensure that the data set name is specified correctly.

CCQS004I The settings were saved.
Explanation: The settings that you changed were saved.
System action: Processing continues.
User response: No action is required.

CCQS006W The length of a qualifier for the data_set_name customization library data set exceeds 26 characters.
Explanation: The qualifier for the customization library data set is too long. The qualifier cannot exceed 26 characters.
System action: Processing continues.
User response: Specify a qualifier that is 26 characters or less.

CCQS007E The discover data set data_set_name could not be opened with the option-type option.
Explanation: The specified option could not open the Discover data set.
System action: None.
User response: Specify a valid Discover data set.

CCQS008E An error occurred while the data_set_name Discover data set was being created.
Explanation: While the specified data set was being created, an error occurred.
System action: Processing continues.
User response: Ensure that you have WRITE authority access to this data set.

CCQS010E The customization library qualifier is not valid.
Explanation: The customization library qualifier that was specified is not valid.
System action: None.
User response: Specify a valid qualifier for the customization library.

CCQS011E The group attach option is not valid.
Explanation: The group attach option that was specified is not valid.
System action: None.
User response: Specify a valid option for the group attach option.

CCQS012E The Tools Customizer metadata library is not valid.
Explanation: The metadata library that was specified is not a valid data set.
System action: None.
User response: Specify a valid data set for the metadata library.

CCQS013E The Discover data set is not valid.
Explanation: The Discover data set that was specified is not a valid data set.
System action: None.
User response: Specify a valid Discover data set.

CCQS014E The data store data set is not valid.
Explanation: The data set that was specified is not a valid data set.
System action: None.
User response: Specify a valid data store data set.

CCQS015E Tools Customizer is already running.
Explanation: A session of Tools Customizer is already running in your environment. Only one Tools Customizer session is allowed.
System action: None.
User response: The trace data set is being used. Free the trace data set, and start Tools Customizer again.
CCQS018E Information on the first line of the job card exceeds 57 characters.

Explanation: The first line of the job card can contain only 57 characters. This character limit includes a continuation character.

System action: Tools Customizer clears the first line of the job card.

User response: Specify information that does not exceed 57 characters on the first line of the job card.

CCQS019E The required trace data set, data_set_name, is currently not accessible.

Explanation: The trace data set must be accessible.

System action: Processing stops.

User response: Ensure that the trace data set is accessible.

CCQS020E An error occurred while the customization library data set was being created. ALTER authority on the high-level qualifier for the customization library data set is required.

Explanation: To create the customization library data set, ALTER authority on the specified high-level qualifier must be granted.

System action: None.

User response: Ensure that ALTER authority for the specified customization library data set is granted.

CCQS021E The value value_name in the field that contains the cursor position is not valid.

Explanation: The specified value is not valid.

System action: None.

User response: Specify a valid value.

CCQS022E An error occurred while the customization library data set was being opened. UPDATE authority on the high-level qualifier for the customization library data set is required.

Explanation: To open the customization library data set, UPDATE authority on the specified high-level qualifier must be granted.

System action: None.

User response: Ensure that UPDATE authority for the specified customization library data set is granted.

CCQS023E An error occurred while the customization library data set was being opened. UPDATE authority on the high-level qualifier for the customization library data set is required.

Explanation: To open the customization library data set, UPDATE authority on the specified high-level qualifier must be granted.

System action: None.

User response: Ensure that UPDATE authority for the specified customization library data set is granted, or specify a different high-level qualifier for the customization library data set on the Tools Customizer Settings panel.

CCQS024E An error occurred while the customization library data set was being created. ALTER authority on the high-level qualifier for the customization library data set is required.

Explanation: To create the customization library data set, ALTER authority on the specified high-level qualifier must be granted.

System action: None.

User response: Ensure that ALTER authority for the specified customization library data set is granted, or specify a different high-level qualifier for the customization library data set on the Tools Customizer Settings panel.

CCQS030E The following command is not a valid CREATE statement: command_statement.

Explanation: The specified CREATE command statement is invalid because it contains blanks or alphabetic characters.

System action: Processing stops.

User response: Specify a valid CREATE command statement. The correct syntax is CREATE nn, where nn is 1 - 99.

CCQS031E The following command is not a valid CREATE statement: command_statement.

Explanation: The number that can be specified with the CREATE command is 1 - 99.

System action: Processing stops.

User response: Specify a valid CREATE command
statement. The correct syntax is CREATE \textit{nn}, where \textit{nn} is 1 - 99.

\textbf{CCQT000I}  The product configuration ID \textit{copied\_configuration\_ID} was successfully copied from \textit{configuration\_ID}.

\textbf{Explanation:}  The specified configuration ID was copied.
\textbf{System action:}  None.
\textbf{User response:}  No action is required.

\textbf{CCQT001E}  The \textit{command\_name} line command was specified more than once, which is not allowed.

\textbf{Explanation:}  The specified line command cannot be specified more than one time.
\textbf{System action:}  Processing stops.
\textbf{User response:}  Specify the line command only once.

\textbf{CCQT002E}  The \textit{configuration\_ID} configuration ID already exists. Specify a different configuration ID.

\textbf{Explanation:}  The specified configuration ID exists.
\textbf{System action:}  Processing stops.
\textbf{User response:}  Ensure that the specified configuration ID is unique.

\textbf{CCQT003I}  The product configuration ID \textit{configuration\_ID} was created.

\textbf{Explanation:}  The specified configuration ID was created.
\textbf{System action:}  None.
\textbf{User response:}  No action is required.

\textbf{CCQT004I}  The product configuration ID \textit{configuration\_ID} was removed.

\textbf{Explanation:}  The specified configuration ID was removed.
\textbf{System action:}  None.
\textbf{User response:}  No action is required.

\textbf{CCQT005E}  The product configuration ID \textit{configuration\_ID} is not valid. The product configuration ID cannot contain a colon (:).

\textbf{Explanation:}  The specified configuration ID contains a colon (:), but a colon is not valid.
\textbf{System action:}  Processing stops.

\textbf{User response:}  Specify a configuration ID that does not contain a colon.

\textbf{CCQT006E}  The \textit{configuration\_ID} configuration ID exists. Specify a different configuration ID.

\textbf{Explanation:}  The specified configuration ID exists.
\textbf{System action:}  Processing stops.
\textbf{User response:}  Specify another configuration ID.

\textbf{CCQT007E}  The \textit{configuration\_ID} configuration ID exists but was removed from the list of configurations. To use this configuration ID, you must restore it.

\textbf{Explanation:}  The specified configuration ID exists but was removed from the list of available configuration.
\textbf{System action:}  Processing stops.
\textbf{User response:}  Specify another configuration ID. To restore the specified configuration ID, issue the CREATE command, and specify the same configuration ID again.

\textbf{CCQT008E}  The \textit{configuration\_ID} configuration ID exceeds maximum_number characters.

\textbf{Explanation:}  The specified configuration ID contains too many characters.
\textbf{System action:}  Processing stops.
\textbf{User response:}  Specify another configuration ID that does not exceed the maximum number of characters that was set by DB2 Autonomics Director.

\textbf{CCQT010I}  Create request for \textit{configuration\_ID} configuration was cancelled by user.

\textbf{Explanation:}  The request to create the specified configuration was canceled.
\textbf{System action:}  Processing stops.
\textbf{User response:}  No action is required.

\textbf{CCQT011I}  The \textit{configuration\_ID} configuration was not copied.

\textbf{Explanation:}  The specified configuration was not copied.
\textbf{System action:}  Processing stops.
\textbf{User response:}  No action is required.
<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCQT012I</td>
<td>The configuration_ID configuration was not removed.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The specified configuration was not removed.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQT013I</td>
<td>None of the configurations were copied or removed. All of the previously selected configurations are deselected.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The selected configurations were not copied or removed, and they are deselected.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQT014E</td>
<td>Specify Y or N and press Enter to continue, or press End to cancel.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>A function requires input.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>To continue, specify Y or N and press Enter. Otherwise, press End to cancel.</td>
</tr>
<tr>
<td>CCQT015E</td>
<td>The command_name command is not allowed during the process of &quot;Select&quot; configuration line command.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The specified command is not allowed while the line command for selecting configurations is processing.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>Remove the specified line command.</td>
</tr>
<tr>
<td>CCQT016I</td>
<td>The configuration_ID configuration was not created.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The specified configuration was not created.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQT017I</td>
<td>The configuration_ID configuration was not copied.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The specified configuration was not copied.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQT018E</td>
<td>Specify Y or N, and press Enter.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>A function requires input.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>To continue, specify Y or N, and press Enter.</td>
</tr>
<tr>
<td>CCQT019I</td>
<td>The select configuration_ID configuration process ended.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The select process for the specified configuration is finished.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQT020E</td>
<td>The configuration_ID configuration was not created because the data store was not accessible.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The specified configuration was not created because the data store could not be accessed.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>Ensure that the data store is accessible and create the configuration again.</td>
</tr>
<tr>
<td>CCQT021E</td>
<td>The configuration_ID configuration was not copied because the data store was not accessible.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The specified configuration was not copied because the data store could not be accessed.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>Ensure that the data store is accessible and copy the configuration again.</td>
</tr>
<tr>
<td>CCQT025I</td>
<td>The configuration_ID configuration was not updated.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The specified configuration was not updated because the edit process was canceled.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing stops.</td>
</tr>
<tr>
<td>User response:</td>
<td>No action is required.</td>
</tr>
<tr>
<td>CCQT027I</td>
<td>The product configuration was successfully updated.</td>
</tr>
<tr>
<td>Explanation:</td>
<td>The configuration was updated.</td>
</tr>
<tr>
<td>System action:</td>
<td>Processing continue.</td>
</tr>
<tr>
<td>User response:</td>
<td>No action is required.</td>
</tr>
</tbody>
</table>
Gathering diagnostic information

Before you report a problem with Tools Customizer to IBM Software Support, you need to gather the appropriate diagnostic information.

Procedure

Provide the following information for all Tools Customizer problems:

- A clear description of the problem and the steps that are required to re-create the problem
- Relevant screen captures
- All messages that were issued as a result of the problem
- Product release number and the number of the last program temporary fix (PTF) that was installed
- The version of DB2 that you are using and the type and version of the operating system that you are using
- The Tools Customizer trace data set
- The Tools Customizer data store data set and the high_level_qualifier.SCCQTENU data set

Determining the trace data set name

You will need to identify the name of the trace data set if you cannot allocate the trace data set, the trace data set runs out of space, or IBM Software Support asks for it.

The name of the trace data set depends on the prefix setting in the TSO profile. To identify the name of the trace data set, you must know the prefix setting.

- If PREFIX is set, the name of the trace data set is prefix.CCQ.TRACE, where prefix is the TSO prefix that you specified in the profile.
- If NOPREFIX is set, the name of the trace data set is user_ID.CCQ.TRACE, where user_ID is your TSO user ID.
Chapter 6. Tools Customizer reference

Before you use Tools Customizer, you should understand the Tools Customizer terminology and the data sets that Tools Customizer uses during customization.

Tools Customizer terminology and data sets

Before you use Tools Customizer, you should understand the Tools Customizer terminology and the data sets that Tools Customizer uses during customization.

Tools Customizer terminology

Tools Customizer uses several unique terms that you should be familiar with before you begin to use Tools Customizer.

Products and components

How an IBM Tool is packaged determines whether it is referred to as a product or as a component in the Tools Customizer documentation and interface. An IBM Tool that is ordered as a stand-alone entity (that is, not as part of a solution pack) is referred to as a product. An IBM Tool that is part of a solution pack is referred to as a component. Some IBM Tools are available in both formats; therefore, the same IBM Tool can be referred to as a product or as a component depending on how it is packaged.

DB2 entry

You can customize DB2 Autonomics Director on one or more DB2 entries. A DB2 entry can be any of the following items:

DB2 subsystem

A distinct instance of a relational database management system (RDBMS) that is not part of a data sharing group. An example of a DB2 subsystem name is DB01.

DB2 group attach name

DB2 Autonomics Director does not support DB2 group attach names.

DB2 data sharing member

A DB2 subsystem that is assigned by the cross-system coupling facility (XCF) to a data sharing group. An example of a DB2 data sharing member name is DB02.

Tools Customizer maintains the following lists of DB2 entries:

Associated list

The list of DB2 entries that are associated with DB2 Autonomics Director. If the product to be customized requires DB2 entries, you can customize DB2 Autonomics Director only on DB2 entries that are in the associated list. When you customize DB2 Autonomics Director, this list is displayed in the DB2 Entries, Associations, and Parameter Status section of the Customizer Workplace panel.

You can add and copy DB2 entries to the associated list. When you add or copy DB2 entries to the associated list, the entries are associated with DB2 Autonomics Director.

Master list
The list of all DB2 entries that are defined but are not associated with DB2 Autonomics Director. Tools Customizer obtains information about these DB2 entries either from entries that were created manually or from the customizations of other products that were discovered. If you remove a DB2 entry from the associated list, the DB2 entry is added to the master list. When you create a new DB2 entry, it is added to the master list, and when you associate the new entry with DB2 Autonomics Director, it is removed from the master list and added to the associated list. The master list is displayed on the Associate a DB2 Entry for Product panel.

If the associated list does not have the DB2 entries on which you want to customize DB2 Autonomics Director, you can associate existing entries from the master list to the associated list.

You can create new DB2 entries and copy existing entries to the master list.

**High-level qualifier**

The high-level qualifier is considered to be all of the qualifiers except the lowest level qualifier. A high-level qualifier includes a mid-level qualifier.

**Product parameters**

Parameters that are specific to DB2 Autonomics Director. These parameters are defined by DB2 Autonomics Director and are stored in a data member that is defined by DB2 Autonomics Director.

**LPAR parameters**

Parameters on the local LPAR that are required to customize DB2 Autonomics Director. These parameters are defined by Tools Customizer and are stored in an LPAR parameter data member.

**DB2 parameters**

Parameters for a DB2 entry. These parameters are defined by Tools Customizer and are stored in a DB2 parameter data member.

**Status type**

**Product, LPAR, and DB2 entry status type**

After you specify the product that you want to customize, the product, the LPAR, and the DB2 entries have a status. The status is partly based on whether required parameters are defined. For some products, LPAR parameters or DB2 parameters might not be required. In these cases, the status is Not Required.

To customize DB2 Autonomics Director, all of the required parameters must be defined.

If required parameters for the product parameters, LPAR parameters, or DB2 parameters are not defined, the status of the parameters is Incomplete. Define values for parameters by manually editing them or by generating the customization jobs and specifying values for all of the required parameters that are displayed on the panels.

When values for all of the required parameters are defined, the status is Ready to Customize. Customization jobs can be generated only when all of the required parameters are defined and the status is Ready to Customize or Customized for the product parameters, LPAR parameters, and DB2 parameters for the DB2 entries on which DB2 Autonomics Director will be customized.
The following table shows the meaning of the status types. Each status is defined differently for each type of parameter.

**Table 12. Status types for the product, the LPAR, and the DB2 entries**

<table>
<thead>
<tr>
<th>Status</th>
<th>Product</th>
<th>LPAR</th>
<th>DB2 entries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incomplete</td>
<td>The required product parameters are not defined, or the required product parameters are defined but LPAR parameters, DB2 parameters, or both are not defined.</td>
<td>The required parameters are not defined.</td>
<td>The required parameters are not defined.</td>
</tr>
<tr>
<td>Discovered</td>
<td>The product parameter definitions were discovered by using the product Discover EXEC.</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Ready to Customize</td>
<td>The required product, LPAR, and DB2 parameters are defined, the status is Ready to Customize or Customized for the LPAR and at least one associated DB2 entry. You can generate the customization jobs.</td>
<td>The required LPAR parameters are defined or LPAR parameters are not required.</td>
<td>The required DB2 parameters are defined or DB2 parameters are not required.</td>
</tr>
<tr>
<td>Customized</td>
<td>The jobs are customized on the local LPAR.</td>
<td>The jobs are customized for the product or for all of the associated DB2 entries on the local LPAR.</td>
<td>The jobs are customized for the DB2 entry.</td>
</tr>
<tr>
<td>Errors in Customization</td>
<td>N/A</td>
<td>N/A</td>
<td>Errors occurred while the customization jobs were being generated.</td>
</tr>
<tr>
<td>Not Required</td>
<td>N/A</td>
<td>LPAR parameters are not required.</td>
<td>DB2 parameters are not required.</td>
</tr>
</tbody>
</table>

**Related tasks:**

“Creating and associating DB2 entries” on page 22
You can create new DB2 entries and associate them with DB2 Autonomics Director.

“Copying DB2 entries” on page 32
You can copy associated and not associated DB2 entries to other DB2 entries or to new DB2 entries.

“Removing DB2 entries” on page 34
You can remove DB2 entries from the associated list.
**Data sets that Tools Customizer uses during customization**

Tools Customizer uses several unique data sets during the customization process. Familiarize yourself with these data sets before you begin to use Tools Customizer.

Several different data sets are required to customize DB2 Autonomics Director with Tools Customizer. These data sets are supplied by DB2 Autonomics Director, supplied by Tools Customizer, or allocated by Tools Customizer.

DB2 Autonomics Director provides the following data sets:

**Metadata library**

Contains the metadata for the product to be customized. Tools Customizer uses the metadata to determine which tasks, steps, and parameters to display on the Product Parameters panel, the LPAR Parameters panel, and the DB2 Parameters panel. This data set also contains the templates that Tools Customizer uses to generate the customization jobs.

The metadata library naming convention is `high_level_qualifier.SDYXDENU`, where `high_level_qualifier` is all of the segments of the data set name except the lowest-level qualifier.

You specify the metadata library on the Specify the Metadata Library panel. READ access to this data set is required.

**Discover EXEC library**

Contains the DB2 Autonomics Director Discover EXEC. When you customize DB2 Autonomics Director, you can use the Discover EXEC to automatically retrieve and store product information, such as parameter values from an already customized product. Tools Customizer saves the discovered information in the data store.

The default name of the data set is the high-level qualifier for the metadata library plus a lowest-level qualifier. For DB2 Autonomics Director, the lowest-level qualifier is `SDYXDENU`. You can change the default value on the Discover Customized Product Information panel. EXECUTE access to this data set is required.

Tools Customizer provides the following data sets:

**Tools Customizer metadata library**

Contains the metadata for the DB2 and LPAR parameters that are required to customize DB2 Autonomics Director. Tools Customizer uses the metadata to determine which parameters to display on the DB2 Parameters panel and the LPAR Parameters panel. In addition, Tools Customizer uses information in the metadata library to determine whether additional DB2 and LPAR parameters need to be displayed on these panels. As you customize different products, different DB2 and LPAR parameters might need to be defined.

The default name of the data set is `DB2TOOL.CCQ110.SCCQDENU`. You can change the default value on the Tools Customizer Settings panel. READ access to this data set is required.

**Tools Customizer table library**

Stores information about jobs that are customized. Job information that is stored includes a description of the job, its member name and template name, the SSID, and when the job was generated.

The default name of the data set is `DB2TOOL.CCQ110.SCCQTENU`. WRITE access to this data set is required.
Tools Customizer requires that the following data sets exist during the customization process. If the data sets do not exist, Tools Customizer automatically allocates them.

**Discover output data set**
Contains the output that is generated when you run the DB2 Autonomics Director Discover EXEC. The DB2 Autonomics Director Discover EXEC retrieves the metadata and values for the parameters from a previous customization of DB2 Autonomics Director.

The default name of the data set is DB2TOOL.CCQ110.DISCOVER. You can change the default value on the Tools Customizer Settings panel or the Discover Customized Product Information panel. WRITE access to this data set is required.

**Data store data set**
Contains product, LPAR, and DB2 parameter values, and DB2 entry associations. Tools Customizer uses this data set to permanently store all information that is acquired about the product, DB2 subsystems, and LPAR when you customize products on the local LPAR.

The default name of the data set is DB2TOOL.CCQ110.DATASTOR. You can change the default value on the Tools Customizer Settings panel. WRITE access to this data set is required.

**Customization library**
Contains the customization jobs that Tools Customizer generates for DB2 Autonomics Director.

Tools Customizer checks whether a customization library name was specified for more than one instance of the same version of the same product. If the same customization library name is specified for more than one product of the same version, the CCQD123E message is issued to prevent you from overwriting previously generated customization jobs. Ensure that you specify unique qualifier for the customization library for each instance of the product.

To customize DB2 Autonomics Director, submit the members of the data set in the order in which they are displayed on the Finish Product Customization panel.

The data set naming convention is `hlq.$LPAR_name$.xyzvrm`, where:

- `hlq` is the value of the **Customization library qualifier** field on the Tools Customizer Settings panel (CCQPSET)
- `LPAR_name` is the four-character LPAR name
- `xyzvrm` is the three-letter product identifier with the version, release, and modification level

For example, the data set name might be DB2TOOL.PRODUCT.CUST.$MVS1$.XYZ410.

WRITE access to this data set is required.

Tools Customizer allocates the data sets for the discover output, the data store, and the customization library with the attributes that are shown in the following table:
Table 13. Data set attributes for allocating the Discover output, data store, and customization library data sets

<table>
<thead>
<tr>
<th>Data set</th>
<th>Organization</th>
<th>Record format</th>
<th>Record length</th>
<th>Block size</th>
<th>Data set name type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discover output data set</td>
<td>PO</td>
<td>Variable block</td>
<td>16383</td>
<td>32760</td>
<td>LIBRARY</td>
</tr>
<tr>
<td>Data store data set</td>
<td>PO</td>
<td>Variable block</td>
<td>16383</td>
<td>32760</td>
<td>LIBRARY</td>
</tr>
<tr>
<td>Product customization library</td>
<td>PO</td>
<td>Fixed block</td>
<td>80</td>
<td>32720</td>
<td>LIBRARY</td>
</tr>
</tbody>
</table>

Restrictions:

- Multiple users cannot simultaneously share the discover output data set, data store data set, Tools Customizer metadata library, and metadata library.
- You cannot share the data store data set across multiple LPARs with shared DASD or copy the data store data set to another LPAR. Tools Customizer creates many cross-references between product and DB2 associations. Therefore, if you share or copy the data store data set, member names that are empty or that do not exist might be generated.
Chapter 7. Reference

Reference information supports the tasks that you must complete to install, customize, and use Autonomics Director for DB2.

How to read syntax diagrams

The following rules apply to the syntax diagrams that are used in this information:

- Read the syntax diagrams from left to right, from top to bottom, following the path of the line. The following conventions are used:
  - The >>--- symbol indicates the beginning of a syntax diagram.
  - The ---> symbol indicates that the syntax diagram is continued on the next line.
  - The >--- symbol indicates that a syntax diagram is continued from the previous line.
  - The --->< symbol indicates the end of a syntax diagram.
- Required items appear on the horizontal line (the main path).

[Syntax Diagram Example]

- Optional items appear below the main path.

[Syntax Diagram Example]

If an optional item appears above the main path, that item has no effect on the execution of the syntax element and is used only for readability.

[Syntax Diagram Example]

- If you can choose from two or more items, they appear vertically, in a stack.
  If you must choose one of the items, one item of the stack appears on the main path.

[Syntax Diagram Example]

If choosing one of the items is optional, the entire stack appears below the main path.

[Syntax Diagram Example]

If one of the items is the default, it appears above the main path, and the remaining choices are shown below.
An arrow returning to the left, above the main line, indicates an item that can be repeated.

If the repeat arrow contains a comma, you must separate repeated items with a comma.

A repeat arrow above a stack indicates that you can repeat the items in the stack.

- Keywords, and their minimum abbreviations if applicable, appear in uppercase. They must be spelled exactly as shown. Variables appear in all lowercase italic letters (for example, column-name). They represent user-supplied names or values.
- Separate keywords and parameters by at least one space if no intervening punctuation is shown in the diagram.
- Enter punctuation marks, parentheses, arithmetic operators, and other symbols exactly as shown in the diagram.
- Footnotes are shown by a number in parentheses; for example, (1).

**Tools Customizer reference**

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You can customize DB2 Autonomics Director on one or more DB2 entries. A DB2 entry can be any of the following items:

**DB2 subsystem**
A distinct instance of a relational database management system (RDBMS) that is not part of a data sharing group. An example of a DB2 subsystem name is DB01.

**DB2 group attach name**
DB2 Autonomics Director does not support DB2 group attach names.

**DB2 data sharing member**
A DB2 subsystem that is assigned by the cross-system coupling facility (XCF) to a data sharing group. An example of a DB2 data sharing member name is DB02.

Tools Customizer maintains the following lists of DB2 entries:

**Associated list**
The list of DB2 entries that are associated with DB2 Autonomics Director. If the product to be customized requires DB2 entries, you can customize DB2 Autonomics Director only on DB2 entries that are in the associated list. When you customize DB2 Autonomics Director, this list is displayed in the DB2 Entries, Associations, and Parameter Status section of the Customizer Workplace panel.

You can add and copy DB2 entries to the associated list. When you add or copy DB2 entries to the associated list, the entries are associated with DB2 Autonomics Director.

**Master list**
The list of all DB2 entries that are defined but are not associated with DB2 Autonomics Director. Tools Customizer obtains information about these DB2 entries either from entries that were created manually or from the customizations of other products that were discovered. If you remove a DB2 entry from the associated list, the DB2 entry is added to the master list. When you create a new DB2 entry, it is added to the master list, and when you associate the new entry with DB2 Autonomics Director, it is removed from the master list and added to the associated list. The master list is displayed on the Associate a DB2 Entry for Product panel.

If the associated list does not have the DB2 entries on which you want to customize DB2 Autonomics Director, you can associate existing entries from the master list to the associated list.

You can create new DB2 entries and copy existing entries to the master list.

**High-level qualifier**
The high-level qualifier is considered to be all of the qualifiers except the lowest level qualifier. A high-level qualifier includes a mid-level qualifier.

**Product parameters**
Parameters that are specific to DB2 Autonomics Director. These parameters are defined by DB2 Autonomics Director and are stored in a data member that is defined by DB2 Autonomics Director.

**LPAR parameters**
Parameters on the local LPAR that are required to customize DB2
Autonomics Director. These parameters are defined by Tools Customizer and are stored in an LPAR parameter data member.

DB2 parameters
Parameters for a DB2 entry. These parameters are defined by Tools Customizer and are stored in a DB2 parameter data member.

Status type

Product, LPAR, and DB2 entry status type

After you specify the product that you want to customize, the product, the LPAR, and the DB2 entries have a status. The status is partly based on whether required parameters are defined. For some products, LPAR parameters or DB2 parameters might not be required. In these cases, the status is Not Required.

To customize DB2 Autonomics Director, all of the required parameters must be defined.

If required parameters for the product parameters, LPAR parameters, or DB2 parameters are not defined, the status of the parameters is Incomplete. Define values for parameters by manually editing them or by generating the customization jobs and specifying values for all of the required parameters that are displayed on the panels.

When values for all of the required parameters are defined, the status is Ready to Customize. Customization jobs can be generated only when all of the required parameters are defined and the status is Ready to Customize or Customized for the product parameters, LPAR parameters, and DB2 parameters for the DB2 entries on which DB2 Autonomics Director will be customized.

The following table shows the meaning of the status types. Each status is defined differently for each type of parameter.

Table 14. Status types for the product, the LPAR, and the DB2 entries

<table>
<thead>
<tr>
<th>Status</th>
<th>Product</th>
<th>LPAR</th>
<th>DB2 entries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incomplete</td>
<td>The required product parameters are not defined, or the required product parameters are defined but LPAR parameters, DB2 parameters, or both are not defined.</td>
<td>The required parameters are not defined.</td>
<td>The required parameters are not defined.</td>
</tr>
<tr>
<td>Discovered</td>
<td>The product parameter definitions were discovered by using the product Discover EXEC.</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Status</td>
<td>Product</td>
<td>LPAR</td>
<td>DB2 entries</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Ready to Customize</td>
<td>The required product, LPAR, and DB2 parameters are defined, the status is Ready to Customize or Customized for the LPAR and at least one associated DB2 entry. You can generate the customization jobs.</td>
<td>The required LPAR parameters are defined or LPAR parameters are not required.</td>
<td>The required DB2 parameters are defined or DB2 parameters are not required.</td>
</tr>
<tr>
<td>Customized</td>
<td>The jobs are customized on the local LPAR.</td>
<td>The jobs are customized for the product or for all of the associated DB2 entries on the local LPAR.</td>
<td>The jobs are customized for the DB2 entry.</td>
</tr>
<tr>
<td>Errors in Customization</td>
<td>N/A</td>
<td>N/A</td>
<td>Errors occurred while the customization jobs were being generated.</td>
</tr>
<tr>
<td>Not Required</td>
<td>N/A</td>
<td>LPAR parameters are not required.</td>
<td>DB2 parameters are not required.</td>
</tr>
</tbody>
</table>

Related tasks:
- “Creating and associating DB2 entries” on page 22
  You can create new DB2 entries and associate them with DB2 Autonomics Director.
- “Copying DB2 entries” on page 32
  You can copy associated and not associated DB2 entries to other DB2 entries or to new DB2 entries.
- “Removing DB2 entries” on page 34
  You can remove DB2 entries from the associated list.

Data sets that Tools Customizer uses during customization
Tools Customizer uses several unique data sets during the customization process. Familiarize yourself with these data sets before you begin to use Tools Customizer.

Several different data sets are required to customize DB2 Autonomics Director with Tools Customizer. These data sets are supplied by DB2 Autonomics Director, supplied by Tools Customizer, or allocated by Tools Customizer.

DB2 Autonomics Director provides the following data sets:

Metadata library
Contains the metadata for the product to be customized. Tools Customizer uses the metadata to determine which tasks, steps, and parameters to display on the Product Parameters panel, the LPAR Parameters panel, and the DB2 Parameters panel. This data set also contains the templates that Tools Customizer uses to generate the customization jobs.

The metadata library naming convention is high_level_qualifier.SDYXDENU, where high_level_qualifier is all of the segments of the data set name except the lowest-level qualifier.
You specify the metadata library on the Specify the Metadata Library panel. READ access to this data set is required.

**Discover EXEC library**
Contains the DB2 Autonomics Director Discover EXEC. When you customize DB2 Autonomics Director, you can use the Discover EXEC to automatically retrieve and store product information, such as parameter values from an already customized product. Tools Customizer saves the discovered information in the data store.

The default name of the data set is the high-level qualifier for the metadata library plus a lowest-level qualifier. For DB2 Autonomics Director, the lowest-level qualifier is SDYXDENU. You can change the default value on the Discover Customized Product Information panel. EXECUTE access to this data set is required.

Tools Customizer provides the following data sets:

**Tools Customizer metadata library**
Contains the metadata for the DB2 and LPAR parameters that are required to customize DB2 Autonomics Director. Tools Customizer uses the metadata to determine which parameters to display on the DB2 Parameters panel and the LPAR Parameters panel. In addition, Tools Customizer uses information in the metadata library to determine whether additional DB2 and LPAR parameters need to be displayed on these panels. As you customize different products, different DB2 and LPAR parameters might need to be defined.

The default name of the data set is DB2TOOL.CCQ110.SCCQDENU. You can change the default value on the Tools Customizer Settings panel. READ access to this data set is required.

**Tools Customizer table library**
Stores information about jobs that are customized. Job information that is stored includes a description of the job, its member name and template name, the SSID, and when the job was generated.

The default name of the data set is DB2TOOL.CCQ110.SCCQTENU. WRITE access to this data set is required.

Tools Customizer requires that the following data sets exist during the customization process. If the data sets do not exist, Tools Customizer automatically allocates them.

**Discover output data set**
Contains the output that is generated when you run the DB2 Autonomics Director Discover EXEC. The DB2 Autonomics Director Discover EXEC retrieves the metadata and values for the parameters from a previous customization of DB2 Autonomics Director.

The default name of the data set is DB2TOOL.CCQ110.DISCOVER. You can change the default value on the Tools Customizer Settings panel or the Discover Customized Product Information panel. WRITE access to this data set is required.

**Data store data set**
Contains product, LPAR, and DB2 parameter values, and DB2 entry associations. Tools Customizer uses this data set to permanently store all information that is acquired about the product, DB2 subsystems, and LPAR when you customize products on the local LPAR.
The default name of the data set is DB2TOOL.CCQ110.DATASTOR. You can change the default value on the Tools Customizer Settings panel. WRITE access to this data set is required.

**Customization library**
Contains the customization jobs that Tools Customizer generates for DB2 Autonomics Director.

Tools Customizer checks whether a customization library name was specified for more than one instance of the same version of the same product. If the same customization library name is specified for more than one product of the same version, the CCQD123E message is issued to prevent you from overwriting previously generated customization jobs.
Ensure that you specify unique qualifier for the customization library for each instance of the product.

To customize DB2 Autonomics Director, submit the members of the data set in the order in which they are displayed on the Finish Product Customization panel.

The data set naming convention is `hlq.$LPAR_name$.xyzvrm`, where:
- `hlq` is the value of the **Customization library qualifier** field on the Tools Customizer Settings panel (CCQPSET)
- `LPAR_name` is the four-character LPAR name
- `xyzvrm` is the three-letter product identifier with the version, release, and modification level

For example, the data set name might be DB2TOOL.PRODUCT.CUST.$MVS1$.XYZ410.

WRITE access to this data set is required.

Tools Customizer allocates the data sets for the discover output, the data store, and the customization library with the attributes that are shown in the following table:

<table>
<thead>
<tr>
<th>Data set</th>
<th>Organization</th>
<th>Record format</th>
<th>Record length</th>
<th>Block size</th>
<th>Data set name type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discover output data set</td>
<td>PO</td>
<td>Variable block</td>
<td>16383</td>
<td>32760</td>
<td>LIBRARY</td>
</tr>
<tr>
<td>Data store data set</td>
<td>PO</td>
<td>Variable block</td>
<td>16383</td>
<td>32760</td>
<td>LIBRARY</td>
</tr>
<tr>
<td>Product customization library</td>
<td>PO</td>
<td>Fixed block</td>
<td>80</td>
<td>32720</td>
<td>LIBRARY</td>
</tr>
</tbody>
</table>

**Restrictions:**
- Multiple users cannot simultaneously share the discover output data set, data store data set, Tools Customizer metadata library, and metadata library.
- You cannot share the data store data set across multiple LPARs with shared DASD or copy the data store data set to another LPAR. Tools Customizer creates many cross-references between product and DB2 associations. Therefore, if you share or copy the data store data set, member names that are empty or that do not exist might be generated.
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