

Version 1 Release 6

*IBM Autonomics Director
for Db2 for z/OS
User's Guide*



Version 1 Release 6

*IBM Autonomics Director
for Db2 for z/OS
User's Guide*



Note:

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

Subsequent editions of this PDF will not be delivered in IBM Publications Center. Always download the latest edition from the Db2 Tools Product Documentation page.

June 19, 2019 edition

This edition applies to Version 1 Release 6 of Autonomics Director for Db2 for z/OS (product number 5655-V93) and to all subsequent releases and modifications until otherwise indicated in new editions.

© Copyright IBM Corporation 1996, 2019; Copyright Rocket Software Inc., 1996, 2019.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

About this information	v	Displaying customization jobs	49
Chapter 1. Db2 Autonomics Director overview	1	Maintaining customization jobs.	50
What's new in Db2 Autonomics Director	1	Using Tools Customizer in a multiple-LPAR environment	50
New and changed functions	1	Chapter 5. Using the sample batch job to start the Db2 Autonomics Director stored procedure	53
Service updates and support information	3	Chapter 6. Administering client, server, and agent communications for Db2 Autonomics Director.	55
Product documentation and updates	3	Establishing server, client, and agent communications	55
Accessibility features	4	Maintaining the Db2 Autonomics Director server.	55
Chapter 2. Preparing to customize Db2 Autonomics Director	5	Server environment.	56
Set up your environment prior to customization	6	Server security	56
Worksheets: Gathering required data set names.	7	Server output.	56
APF authorizing load libraries	8	Stopping the server.	56
Worksheets: Gathering parameter values for Db2 Autonomics Director.	9	Administrative commands	57
Chapter 3. Starting and preparing Tools Customizer for use	23	Maintaining the Db2 Autonomics Director agent	58
Starting Tools Customizer	23	Agent environment.	58
Modifying Tools Customizer user settings	24	Agent security	58
Changing display options	28	Agent output.	59
Chapter 4. Customizing Db2 Autonomics Director.	31	Stopping the agent	60
Roadmap: Customizing Db2 Autonomics Director for the first time.	31	Chapter 7. Troubleshooting	61
Roadmap: Recustomizing Db2 Autonomics Director	32	Gathering diagnostic information	61
Specifying the metadata library for the product to customize	33	Troubleshooting Tools Customizer problems	61
Creating and associating Db2 entries	35	Tools Customizer troubleshooting	61
Defining parameters	36	Tools Customizer messages	62
Defining Db2 Autonomics Director parameters	37	Db2 Autonomics Director messages	123
Defining LPAR parameters	39	Chapter 8. Reference	153
Defining Db2 parameters.	41	Tools Customizer reference	153
Generating customization jobs	43	Tools Customizer terminology and data sets	153
Submitting customization jobs	44	Notices	159
Browsing parameters	46	Index	163
Copying Db2 entries	47		
Removing Db2 entries.	48		
Deleting Db2 entries	49		

About this information

Autonomics Director for Db2® for z/OS® (also referred to as Db2 Autonomics Director) provides the framework for a comprehensive Db2 autonomics environment.

These topics provide instructions for installing, configuring, and using Db2 Autonomics Director.

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

- Plan for the installation of Db2 Autonomics Director
- Install and operate Db2 Autonomics Director
- Customize your Db2 Autonomics Director environment
- Diagnose and recover from Db2 Autonomics Director problems
- Use Db2 Autonomics Director with other Db2 products

Tip: To find the most current version of this information, always use IBM Knowledge Center, which is updated more frequently than PDF books.

Chapter 1. Db2 Autonomics Director overview

Db2 Autonomics Director provides the framework for a comprehensive Db2 autonomics environment. By using Db2 Autonomics Director and other Db2 tools that provide autonomics 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.

Db2 Autonomics Director supports both a passive or active approach to autonomics. For example, in a passive autonomics 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 autonomics 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.

Db2 Autonomics Director 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, Db2 Autonomics Director 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`.

Db2 Autonomics Director, when used in conjunction with Db2 Autonomic certified tools can save on CPU and free your DBA staff to focus on business critical problems.

What's new in Db2 Autonomics Director

This section describes recent technical changes to Db2 Autonomics Director.

New and changed information is marked like this paragraph, with a vertical bar to the left of a change. Editorial changes that have no technical significance are not marked.

New and changed functions

This topic summarizes the recent enhancements and changes in Db2 Autonomics Director.

June 19, 2019 edition

Description	Related APARs
Messages were added to provide information about Db2 Autonomics Director stop and start activity and when a calculated priority is overridden by a user priority. Messages “DYXS810I” on page 131, “DYXS811I” on page 131, “DYXS812I” on page 131, “DYXS813I” on page 132, and “DYXS814I” on page 132 were added.	PH13044
The default value for the Tools Customizer parameter SMTP task name was incorrect. The correct default is SMTPTASK. The topic “Worksheets: Gathering parameter values for Db2 Autonomics Director” on page 9 was updated.	None

2019-02-13 edition

Description	Related APARs
The Db2 Automation Tool extension for IBM Data Server Manager depends on specific Db2 Automation Tool and Db2 Autonomics Director APARs being applied in order to work correctly. Information about those dependencies was added to “Set up your environment prior to customization” on page 6.	None

2018-12-12 edition

Description	Related APARs
The schema name that contains the Db2 Autonomics Director tables must be SYSAUTO; therefore, the DB2 Autonomics Schema field was removed from Tools Customizer panel CCQPDB2. The topic “Worksheets: Gathering parameter values for Db2 Autonomics Director” on page 9 was updated.	PI95846
A new Tools Customizer parameter allows you to set a timeout limit for server/agent communications. The topic “Worksheets: Gathering parameter values for Db2 Autonomics Director” on page 9 was updated.	PH01292
Instructions for configuring Db2 Autonomics Director for using long passwords with Data Server Manager were added to “Set up your environment prior to customization” on page 6.	PI95313
The following messages were added: DYXP041E, DYXY067I, DYXZ032E, DXYZ033E, DYXZ034E, DYXZ035E, DYXZ036E, DYXZ037E, DYXZ038E, and DYXZ039E.	None

2017-12-19 edition

Description	Related APARs
Information was added to the “Worksheets: Gathering parameter values for Db2 Autonomics Director” on page 9 to indicate that additional software is required when FIPS 140-2 mode is enabled.	None
Db2 version support was updated in the topic “Set up your environment prior to customization” on page 6.	None
Message DYXS001I was modified to add the subsystem ID and additional build information.	PI74405

Description	Related APARs
<p>Messages with prefixes DYXC, DYXP, DYXS, DYXT, DYXV, DYXX, DYYX, and DYZZ were missing from the user guide and have been added.</p> <p>See “Db2 Autonomics Director messages” on page 123 for more information.</p>	None

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 most current version of this information is available on IBM Knowledge Center:

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

A PDF version of this information is available on the Db2 Tools Product Documentation web page; however, IBM Knowledge Center is updated more frequently than PDF books. The Db2 Tools Product Documentation web page is located at:

<http://www.ibm.com/support/docview.wss?uid=swg27020910>

IBM Redbooks® publications that cover Db2 Tools are available from the following web page:

<http://www.redbooks.ibm.com>

The IBM Information Management System website shows how IT organizations can maximize their investment in Db2 databases while staying ahead of today's top data management challenges:

<https://www.ibm.com/analytics/us/en/db2/db2-for-zos/>

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 helps IBM to provide quality information. Send any comments that you have about this book or other Db2 Tools documentation to comments@us.ibm.com. Include the name and version number of the product and the title and number of the book. If you are commenting on specific text, provide the location of the text (for example, a chapter, topic, or section title).

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 Db2 Autonomics Director

Before you start to customize Db2 Autonomics Director 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.

Task	Link to detailed instructions	Status
Tools Customizer basics		
Prior to beginning the customization process, familiarize yourself with Tools Customizer terminology and data sets, and other basic information about Tools Customizer.	<ul style="list-style-type: none">• “Tools Customizer terminology” on page 153• “Data sets that Tools Customizer uses during customization” on page 156	
Software requirements		
Verify that your environment meets the minimum software requirements. To install and use Db2 Autonomics Director, 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.	“Verify that your environment meets software requirements” on page 6	
SMP/E installation		
Verify that Db2 Autonomics Director and Tools Customizer for z/OS have been installed correctly. These components are installed by using standard SMP/E processing.	“Verify that Db2 Autonomics Director has been installed successfully” on page 7	
Additional precustomization requirements		
Optional: Set up the Db2 administrative task scheduler.	“Verify that the Db2 administrative task scheduler is enabled” on page 7	
Gather data set names		
During the customization process, you must specify data set names for the following components: <ul style="list-style-type: none">• Tools Customizer• FEC (common code)• Db2 Autonomics Director	“Worksheets: Gathering required data set names” on page 7	
APF authorization		
The following data sets must be APF authorized: <ul style="list-style-type: none">• SDYXLOAD• SFECLOAD	“APF authorizing load libraries” on page 8	
Gather parameter values		

Task	Link to detailed instructions	Status
During the customization process, you must specify parameter values for Db2 Autonomics Director, for Db2, and for your LPAR.	"Worksheets: Gathering parameter values for Db2 Autonomics Director" on page 9	
Customize Db2 Autonomics Director		
Start Tools Customizer by running a REXX EXEC from the ISPF Command Shell panel.	"Starting Tools Customizer" on page 23	
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.	"Modifying Tools Customizer user settings" on page 24	
Complete the steps in the appropriate customization roadmap based on the type of customization that you are performing.		
Customizing Db2 Autonomics Director for the first time Follow this roadmap if you do not have a customized version of Db2 Autonomics Director, and you need to customize it for the first time.	"Roadmap: Customizing Db2 Autonomics Director for the first time" on page 31	
Recustomizing Db2 Autonomics Director Follow this roadmap if you have a customized version of Db2 Autonomics Director but you want to change one or more parameter values.	"Roadmap: Recustomizing Db2 Autonomics Director" on page 32	

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 V2.01 (5650-ZOS) or later.

Ensure that you are using one of the following versions of Db2 for z/OS, until end of support for the given Db2 version:

- Db2 V11 (5615-DB2®)
- Db2 Value Unit Edition V11.1 (5697-P43)
- Db2 12 for z/OS (5650-DB2)
- Db2 12 for z/OS Value Unit Edition (5770-AF3)

If you plan to use the Db2 Automation Tool extension for IBM Data Server Manager with Db2 Autonomics Director, you must ensure that the appropriate Db2 Automation Tool and Db2 Autonomics Director PTFs are applied to your system, along with the corresponding Data Server Manager service pack. When installing the Data Server Manager V2.1.5.2 hotfix1 (Q4 2018), the following Db2 Automation Tool and Db2 Autonomics Director PTFs are required:

- Db2 Automation Tool V4.3 APAR PH06143 (PTF UI61033)
- Db2 Autonomics Director V1.6 PH06142 (PTF UI61032)

Configuration for passphrases

If you will use passphrases (long passwords) when logging in to your mainframe sessions, ensure that the Db2 Autonomics Director server is configured as follows:

- Db2 Autonomics Director V1.6 APAR PI95313 must be installed.
- Data Server Manager Version 2.1, Release 2.1.5.0, Build 20180115_0946 or later must be installed.
- If your organization uses passwords that are case sensitive, ensure that the Db2 Autonomics Director server is configured as follows:
`<uppercase-passwords>false</uppercase-passwords>`

This will ensure that passwords that are entered are not automatically changed to uppercase.

- The login IDs that are used for Db2 access must be configured for use with passphrases via your security software (such as RACF®).

Verify that Db2 Autonomics Director has been installed successfully

See the Program Directory for Db2 Autonomics Director, publication number GI13-4654, for installation instructions.

Verify that Tools Customizer for z/OS has been installed successfully

Tools Customizer for z/OS provides a standardized ISPF approach to customizing IBM Db2 for z/OS Tools. See the Program Directory for IBM Tools Customizer for z/OS, GI13-4653-00 for installation instructions.

Verify that the Db2 administrative task scheduler is enabled

If you plan to use the Db2 administrative scheduler to run Db2 Autonomics Director tasks, the 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:

Data set name	Description	Special requirements	Your data set name
SCCQDENU	Metadata library for Tools Customizer		
SCCQLOAD	Executable load module library for Tools Customizer		
SCCQMENU	ISPF messages for Tools Customizer		
SCCQPENU	ISPF panels for Tools Customizer		

Data set name	Description	Special requirements	Your data set name
SCCQSAMP	Sample members for Tools Customizer		
SCCQTENU	Table library for Tools Customizer	You must have write access to this data set.	

Data set names of Db2 Autonomics Director

Identify and record the following Db2 Autonomics Director data set names. During the customization process, you will enter the following values on panel CCQPPRD.

Data set name	Description	Special requirements	Your data set name
SDYXDBRM	DBRM library for Db2 Autonomics Director		
SDYXLOAD	Executable load module library for Db2 Autonomics Director	You must APF authorize this data set.	
SDYXDENU	Metadata library for Db2 Autonomics Director		

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.

Data set name	Description	Special requirements	Your data set name
SFECDBRM	DBRM library for FEC common code		
SFECLOAD	Executable load module library for FEC common code	You must APF authorize this data set.	
SFECMENU	ISPF messages for FEC common code		
SFECPENU	ISPF panels for FEC common code		
SFECSAMP	Sample members for FEC common code		

APF authorizing load libraries

Some of the programs in Db2 Autonomics Director load libraries must be APF-authorized to run.

Procedure

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

- SDYXLOAD
- SFECLOAD

Attention: Do not APF authorize any Tools Customizer load libraries. APF authorizing Tools Customizer load libraries results in an abend.

Worksheets: Gathering parameter values for Db2 Autonomics Director

During the customization process, you will need to provide parameter values for Db2 Autonomics Director, for Db2, and for your LPAR. As part of customization, you must provide several values that are related to Db2 Automation Tool and FEC common code, which may not yet be installed. Refer to the notes in the worksheet regarding those values.

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 Db2 Autonomics Director.

After the customization jobs are generated, they are grouped by the job sequence number. In this topic, the jobs use an 8-character member naming convention that follows the format of *ssjjjdd*, where:

- *ss* is the job sequence number, which is an alphabetic character (A - Z) followed by a numeric character (0 - 9). For example, a job sequence number is A0, A1, ..., Z9.
- *jjjj* is derived from the job template name. The product assigns the job template name.
- *dd* is a set of two alphanumeric characters (AA - 99) that Tools Customizer assigns to identify a Db2 entry.

For example, the job shown as *ssCF2Add* in this topic might be generated as A4CF2AAA.

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 Db2 Autonomics Director metadata data set.

Parameter	Discovered?	Source of this value
Product metadata library This value is the library that you specified on the Specify the Product to Customize panel. This field is scrollable. Place your cursor anywhere on the field and press PF11 to view its full contents.	No	This value is specified on the Specify the Product to Customize panel (CCQPHLQ)
LPAR The LPAR field displays the LPAR on which you are customizing Db2 Autonomics Director.	No	This value is supplied by Db2 Autonomics Director.
Product name This value displays the product that is being customized. In this example, IBM Autonomics Director for Db2 for z/OS should be displayed in this field. This field is scrollable. Place your cursor anywhere on the field and press PF11 to view its full contents.	No	This value is provided by the product metadata file.

Parameter	Discovered?	Source of this value
Version The Version field displays the version, release and maintenance of the product you are customizing in the format <i>Vn.Rn.nn</i> .	No	This value is provided by the product metadata file.
Customization lib The fully qualified name of the data set that will contain the generated jobs. The default data set name is the concatenation of Customization Library Qualifier in the Tools Customizer Settings panel (CCQPSET) with LPAR and product or pack component information. If the data set name exceeds 42 characters, enclose the name in quotation marks. ALTER or UPDATE authorization to this data set is required.	No	This value is derived from the user-specified customization library qualifier on the Tools Customizer Settings panel (CCQPSET).
Vol The volume name in which the Customization Library data set will reside. If left blank, the volume name will be decided by the system.	No	None

Common 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.

Parameter	Required?	Default value	Your value
DB2 Autonomics high-level qualifier The high-level qualifier of the Db2 Autonomics Director data sets.	Yes	DB2TOOL.DYX160	
Started task PROCLIB Defines the data set name where you want to store the WLM PROC that is used with Db2 Autonomics Director. If the data set name is longer than 42 characters, you must enclose it in quotation marks.	Yes	DYX.PROCLIB	

Task: Create or Drop DB2 Autonomics 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:

- *ssDROPdd*, which is based on the DYXDROP template

- *ssDDL1dd*, which is based on the DYXDDL1 template

Required authority

The user ID that runs these jobs to drop and create Db2 objects must have SYSADM authority on the Db2 subsystems.

Step or parameter	Required?	Default value	Your value
Drop DB2 Autonomics objects Drops existing tables before a new set of tables is created. If you have a previously customized set of tables and want to create a new set, select this step. This step is optional.	No	Not selected	
Create or update repository Create or upgrade the Db2 Autonomics Director tables and stored procedures. This step is required.	Yes	Selected	
DB2 Autonomics temporary package This parameter specifies the temporary package name that will be used during customization.	Yes	DYX16TMK	
DB2 Autonomics temporary plan This parameter specifies the temporary plan name that will be used during customization.	Yes	DYX16TMP	

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:

- *ssFREEdd*, which is based on the DYXFREE template
- *ssBINDdd*, which is based on the DYXBIND template

Required authority

The user ID that runs these jobs must have SYSADM authority on the Db2 subsystems.

Step or parameter	Required?	Default value	Your value
Free packages and plans Frees the Db2 Autonomics Director packages and plans before the BIND job is run. This step is optional.	No	Not selected	
Bind packages and plans Binds the Db2 Autonomics Director packages and plans. This step is required.	Yes	Selected	

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 *ssGRANdd* job, which is based on the DYXGRANT template.

Required authority

The user ID that runs these jobs must have SYSADM authority on the Db2 subsystems.

Step or parameter	Required?	Default value	Your value
Grant EXECUTE privilege on the plans Grants the EXECUTE privilege on the plans. This step is required.	Yes	Selected	

Task: Set up WLM environment for DB2 Autonomics

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 *ssWLMdd* job, which is based on the DYXWLM template.

Required authority

The user ID that runs these jobs must have update access to the destination data set that will store the PROCLIB.

Step or parameter	Required?	Default value	Your value
Define Db2 Autonomics Director WLM address space Defines the WLM address space in which the Db2 Autonomics Director stored procedures run.	Yes	Selected	

Task: Create batch jobs to drive DB2 autonomics

Description

Creates the batch jobs to run Db2 Autonomics Director or RTS Snapshot. During the customization process, you will enter these values on panel CCQPPRD.

This task is optional.

Jobs generated

This task generates the following jobs:

- *ssRUN1dd*, which is based on the DYXRUN1 template
- *ssTSNAdd*, which is based on the DYXTSNAB template

Required authority

The user ID that runs these jobs must have update access to the destination data sets that will store the Db2 Autonomics and RTS Snapshot batch jobs.

Step or parameter	Required?	Default value	Your value
Create batch job to run DB2 Autonomics Creates the batch job to run Db2 Autonomics Director.	No	Not selected	
Data set to store DB2 Autonomics job This parameter specifies the data set name where you want to store the sample jobs to start Db2 Autonomics Director. If the data set name is longer than 42 characters, it must be enclosed in quotation marks.	Yes	DYX.JCLLIB	
Create batch job to run RTS Snapshot Creates the batch job to run RTS Snapshot.	No	Not selected	
Data set to store RTS Snapshot job This parameter specifies the data set name where you want to store the sample jobs to start RTS snapshot. If the data set name is longer than 42 characters, it must be enclosed in quotation marks.	Yes	DYX.JCLLIB	

Task: Create DB2 Autonomics server/agent configuration

Description

Installs the Db2 Autonomics Director server/agent configuration. Select this task if you plan to use Data Server Manager with Db2 Autonomics Director.

This task is optional.

Jobs generated

This task generates the following:

- *ssAGTJB* job, which is based on the *DYXAGTJB* template. Run this job on each LPAR that houses your Db2 SSIDs. This job creates an agent on each LPAR.
- *ssSRVJB* job, which is based on the *DYXSRVJB* template. Run this job only once, on one of the LPARS that houses your Db2 SSIDs. This job creates one server to service all agents.
- *ssSSLCR* job, which is based on the *DYXSSLCR* template. Run this job only once, on the same LPAR that you run the server job. This job generates a key database for the server.

Note: If FIPS 140-2 mode is enabled, z/OS Cryptographic Services Integrated Cryptographic Service Facility (ICSF) is required.

- *ssSRVCF* configuration data set, which is based on the *DYXSRVCF* template.
- *ssAGTCF* configuration data set, which is based on the *DYXAGTCF* template.
- *ssAGTST* job, which is based on the *DYXAGTST* template. Run this job on each LPAR that houses your Db2 SSIDs. This job creates and starts a started task that runs an instance of an agent on one LPAR.

- **ssSRVST** job, which is based on the **DYXSRVST** template. Run this job only once, on one of the LPARS that houses your Db2 SSIDs. This job creates and starts an instance of the server to service all agents.

Required authority

The user ID that runs these jobs must have update access to the server/agent JCL and configuration files. In addition, the **ssSSLCR** job may require additional authorizations; refer to the job comments for details.

Step or parameter	Required?	Default value	Your value
Create DB2 Autonomics server/agent configuration Installs the Db2 Autonomics Director server/agent configuration. Select this task if you plan to use Data Server Manager with Db2 Autonomics Director. This task is optional.	No	Not selected	
Server configuration file The Db2 Autonomics Director server requires a configuration file for input. This file can be a sequential data set, a PDS or PDSE member, or an HFS file. This data set must be created prior to customizing the server/agent. If a PDS is used, the member will be created or updated. This value is required.		DB2TOOL.DYX160. JCLLIB(DYXCFIGS)	
Agent configuration file The Db2 Autonomics Director agent requires a configuration file for input. This file can be a sequential data set, a PDS or PDSE member, or an HFS file. This data set must be created prior to customizing the server/agent. If a PDS is used, the member will be created or updated. This value is required.		DB2TOOL.DYX160. JCLLIB (DYXCFIGA)	
Create DB2 Autonomics server/agent files Db2 Autonomics Director configuration requires 3 jobs and 2 configuration files. Two of the jobs optionally can be started tasks. This step creates the configuration files, the jobs, and the started tasks.	Yes	Selected	
ISPF client listener port number The client port number that is used for client-server communications. This value is required.	Yes	11174	
Server/agent listener port number The server port number that is used for server/agent communications. This value is required.	Yes	11175	
Web client listener port number The HTTP port number that is used for client-server communications. This value is required.	Yes	11176	

Step or parameter	Required?	Default value	Your value
Server response timeout in secs The server response timeout for server/agent communications. This value determines the maximum number of seconds that the server waits for a response from an agent request. This value is optional. Valid values are from 60 to 1800 seconds (inclusive). If not specified, 600 seconds is used as the default value.	No	600	
Use SSL Db2 Autonomics Director can use SSL encryption for network communication. Setting this value to true enables SSL in the server. SSL allows HTTPS to be used in the URL instead of HTTP. When HTTPS is used, all communication with the server is encrypted. To use HTTP, set this value to false. This value is required.	Yes	true	
Key Database Dir Path SSL encryption requires a path to the key database to be specified. The value should be a valid HFS path. This value is required. It is only used if the Use SSL parameter is set to true.	Yes	/u/db2tool/dyx160/certs	
Key Database File Name SSL encryption requires the file name of the key database to be specified. This file is used to store certificates. The name should be a valid HFS file name. This value is required. It is only used if the Use SSL parameter is set to true.	Yes	dyxcert.db	
Key Database Stash File Name SSL encryption requires the name for the stash file to be specified. This file is used to open the key database. The name should be a valid HFS file name. This value is required. It is only used if the Use SSL parameter is set to true.	Yes	dyxcert.sth	
Enable FIPS 140-2 SSL encryption can run in FIPS mode in order to meet the requirements specified in the FIPS publication 140-2. This value is required. It is only used if the Use SSL parameter is set to true. Note: If FIPS 140-2 mode is enabled, z/OS Cryptographic Services Integrated Cryptographic Service Facility (ICSF) is required.	Yes	false	
Server address The name of the server address that is used for server/agent communications. This value is required.	Yes	machine.company.com	

Step or parameter	Required?	Default value	Your value
Key Database Password SSL encryption requires the key database to be specified. This password is used to encrypt the key database. It is securely stored in a stash file. This value is required. It is only used if the Use SSL parameter is set to true.	Yes	dhtV8Q6bGyFo2S	
Organization The name of the company. It is stored in the certificate for identification. This value is required. It is only used if the Use SSL parameter is set to true.	Yes	Company Name	
Country Code (2 letters) The country code. It is stored in the certificate for identification. This value is required. It is only used if the Use SSL parameter is set to true.	Yes	US	
Create DB2 Autonomics agent/server jobs Db2 Autonomics Director configuration requires either two jobs or two started tasks. This step creates the jobs.	No	Not selected	
Server/agent JCL Library The library for the server and agent jobs, and the server and agent configuration files. This data set must be created prior to customizing the server/agent.	Yes	DB2TOOL.DYX160. JCLLIB	
DB2 Automation Tool load library The Db2 Automation Tool load library. This library can optionally contain Db2 Common Code for z/OS (FEC) load modules. Up to five data sets can be specified. Note: The same data set names that are specified here must also be specified when customizing Db2 Automation Tool V4.3.	Yes	HAA.V430.SHAALOAD	
DB2 Common Code (FEC) load library The Db2 Common Code for z/OS (FEC) load library. This is the common code required to run Db2 Automation Tool. Up to five data sets can be specified. This value is not required if FEC was installed into the Db2 Automation Tool load library. Note: The same data set names that are specified here must also be specified when customizing Db2 Automation Tool V4.3.	No	None	

Step or parameter	Required?	Default value	Your value
Control file The name of the VSAM data set that contains the control information for Db2 Automation Tool. This KSDS VSAM file contains product customization information for Db2 Automation Tool. Note: The same control file data set name that is specified here must also be specified when customizing Db2 Automation Tool V4.3.	Yes	HAA.DB2.CONTROL	
Create DB2 Autonomics agent/server STCs Db2 Autonomics Director configuration requires either two jobs or two started tasks. This step creates the started tasks.	No	Not selected	
DB2 Automation Tool load library The Db2 Automation Tool load library. This library can optionally contain Db2 Common Code for z/OS (FEC) load modules. Up to five data sets can be specified. Note: The same data set names that are specified here must also be specified when customizing Db2 Automation Tool V4.3.	Yes	HAA.V430.SHAALOAD	
DB2 Common Code (FEC) load library The Db2 Common Code for z/OS (FEC) load library. This is the common code required to run Db2 Automation Tool. Up to five data sets can be specified. This value is not required if FEC was installed into the Db2 Automation Tool load library. Note: The same data set names that are specified here must also be specified when customizing Db2 Automation Tool V4.3.	No	None	
Control file The name of the VSAM data set that contains the control information for Db2 Automation Tool. This KSDS VSAM file contains product customization information for Db2 Automation Tool. Note: The same control file data set name that is specified here must also be specified when customizing Db2 Automation Tool V4.3.	Yes	HAA.DB2.CONTROL	

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.

Parameter	Required?	Default value	Your value
JES version The version of the job entry system (JES) that is installed on the LPAR. The value must be 1 character or less. Valid values are 0 - n.	Yes	2	
Language environment high-level qualifier The data set name of the Language Environment load library.	Yes	CEE.SCEELLIB	

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

Parameter	Required?	Default value	Your value
Group attach name The name of the group attach name.	No	None	
Mode This parameter indicates the mode in which the Db2 subsystem is running. The following values are valid: <ul style="list-style-type: none"> • CM is compatibility mode on all listed Db2 versions except Db2 10. • NFM is new-function mode on all listed Db2 versions. 	Yes	NFM	
Level number This parameter indicates the version, release, and modification level of the Db2 subsystem. The following values are valid: <ul style="list-style-type: none"> • 101 is valid only for NFM. • 111 is valid for CM or NFM. • 121 is valid for CM or NFM. 	Yes	blank	

Table 2. DB2 Libraries - common section

Parameter	Required?	Default value	Your value
Load library This parameter indicates the data set name of the Db2 load library.	Yes	DSN.SDSNLOAD	
Run library This parameter indicates the data set name of the Db2 run library.	Yes	DSN.RUNLIB. LOAD	
Exit library This parameter indicates the data set name of the Db2 exit library.	Yes	DSN.SDSNEXIT	

Table 3. DB2 Buffer Pools - common section

Parameter	Required?	Default value	Your value
Name of the 4 KB buffer pool The name of the 4 KB buffer pool to be used for customization. The value must be 8 characters or less.	Yes	BP0	
Name of the 8 KB buffer pool The name of the 8 KB buffer pool to be used for customization. The value must be 8 characters or less.	Yes	BP8K0	

Table 4. DB2 Utilities - common section

Parameter	Required?	Default value	Your value
SYSAFF for DB2 utilities The SYSAFF job parameter to use for running Db2 batch utility jobs. The value must be 8 characters or less.	Yes	There is no default value.	
Plan name for the DSNTIAD utility The plan name for the DSNTIAD utility. The value must be 8 characters or less.	Yes	DSNTIAD	

Table 5. DB2 Autonomics BIND Parameters section

Parameter	Required?	Default value	Your value
BIND owner ID The Db2 user ID that will be used as the OWNER in the BIND job. This parameter is required. The default value is DB2USER.	Yes	DB2USER	
User ID for GRANT statement The user ID used in the GRANT EXECUTE statement for the Db2 Autonomics Director plan. This parameter is required. The default value is PUBLIC.	Yes	PUBLIC	

Table 6. DB2 Autonomics DB2 Parameters section

Parameter	Required?	Default value	Your value
SET CURRENT SQLID The Db2 user ID that will be used to create the Db2 Autonomics Director objects. This value is required. The default value is DB2USER.	Yes	DB2USER	
DB2 Autonomics database name The name of the database that contains the Db2 Autonomics Director repository tables. This value is required. The default value is DYXDB.	Yes	DYXDB	

Table 6. DB2 Autonomics DB2 Parameters section (continued)

Parameter	Required?	Default value	Your value
DB2 Autonomics database STOGROUP The name of the storage group in which to create the Db2 Autonomics Director database. This value is required. The default value is SYSDEFLT.	Yes	SYSDEFLT	
DB2 Autonomics index STOGROUP The name of the storage group in which to create the Db2 Autonomics Director indexes. This value is required. The default value is SYSDEFLT.	Yes	SYSDEFLT	
DB2 Autonomics index buffer pool The buffer pool that is used for creating the Db2 Autonomics Director indexes. This value is required. The default value is BP0.	Yes	BP0	
Repository table space primary quantity The primary quantity in kilobytes to allocate to the table space. This value is required. The default value is -1.	Yes	-1	
Repository table space secondary quantity 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.	Yes	-1	
WLM environment for stored procedures The name of the WLM environment to use for Db2 Autonomics Director stored procedures.	Yes	WLMENV4	
WLM proc name The name of the PROC that will start the WLM address space. This value is optional. If not specified, the WLM environment for stored procedures value will be the PROC name.	No	None	
Drop DB2 Autonomics repository Indicates whether to drop the repository objects for this SSID. This value is used only when the Drop Db2 Autonomics Director tables step on the Product Parameters panel is selected. The default value is NO.	Yes	No	
JCL member prefix for batch DB2 Autonomics Enter up to 4 characters for the prefix of the JCL member name that will contain the Db2 Autonomics Director batch job. The Db2 connection ID will be appended to this prefix to form the complete member name. This field is required.	Yes	DYXR	

Table 6. DB2 Autonomics DB2 Parameters section (continued)

Parameter	Required?	Default value	Your value
JCL member prefix for batch RTS Snapshot Enter up to 4 characters for the prefix of the JCL member name that will contain the RTS Snapshot batch job. The Db2 connection ID will be appended to this prefix to form the complete member name. This field is required.	Yes	DYXS	

Table 7. DB2 Autonomics notifications parms

Parameter	Required?	Default value	Your value
Event notifications This value controls whether a user is notified when a selected event occurs. Valid values are ON and OFF (notifications occur when value is ON). Selected events include when a batch job build begins and when a batch job build ends. This value is required.	Yes	OFF	
Sysout Class for SMTP output This value is defined as part of the JES set up on the LPAR for this SSID. Check with your systems programmer for a valid value for your site. This value is required. It is ignored unless the Event Notifications parameter is set to ON.	Yes	A	
z/OS Host Name This parameter is a JES node (system name). This is the JES name of the LPAR for the current SSID. This name can be located in any job log, or check with your systems programmer. This value is required. It is ignored unless the Event Notifications parameter is set to ON.	Yes	JESNODE	
SMTP task name This parameter is the SMTP task name used for sending and receiving autonomics email notifications. This value is required. It is ignored unless the Event Notifications parameter is set to ON.	Yes	SMTPTASK	

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'
```

You can also specify a trace data set name and a user profile when you run the REXX EXEC.

- The default trace data set name is *USERID.CCQ.TRACE*. To specify a different trace data set name, append the trace data set name to the command. For example, to specify a trace data set name of *CCQTCZ.MYTRACE*, enter:

```
EX 'CCQTCZ.USABSAND.SCCQEXEC(CCQTCZ)' 'CCQTCZ.USABSAND, CCQTCZ.MYTRACE'
```

- To specify a user profile other than your own, append the user profile name to the command. For example, to specify a user profile of *SHRPROF*, enter:

```
CCQTCZ.USABSAND.SCCQEXEC(CCQTCZ)' 'CCQTCZ.USABSAND, ,CCQTCZ.SHRPROF'
```

Tools Customizer will use the settings from the specified profile. This profile will be updated when you exit Tools Customizer, but your own profile will remain unchanged.

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:


```

CCQPSET          Tools Customizer Settings          14:03:51
Command ==>
Enter the settings for customizing a product or press End to save and exit.

Commands: SAVE  OPTIONS

Product Customization Settings

*Customization library qualifier . . DB2TOOL.PRODUCT.CUST
  Volume serial . . . . .
*Use DB2 group attach . . . . . YES (YES/NO)

Tools Customizer Library Settings

*Metadata library . . . . . DB2TOOL.CCQ110.SCCQDENU
*Discover output data set . DB2TOOL.CCQ110.DISCOVER
  Volume serial . . . . .
*Data store data set . . . DB2TOOL.CCQ110.DATAST01
  Volume serial . . . . .

User Job Card Settings for Customization Jobs

==> //          JOB (ACCOUNT),'NAME',

```

Figure 1. The Tools Customizer Settings panel (CCQPSET)

Note: An asterisk next to a field indicates that the field is required.

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 (').

Volume serial

The volume name in which the customization library will reside. If you don't specify a volume name, it will be assigned by the system.

Use DB2 group attach

Determines the value that is used in the CONNECT statements in the generated customization jobs. Specify YES for data sharing environments, which causes the group attach name to be used. Specifying NO, in most cases, causes the SSID to be used in the Db2 CONNECT statement.

Important: This field has no effect when you are customizing a product on a Db2 subsystem that is not a member of a data sharing group. In this case, the Db2 subsystem ID (SSID) is always used in the CONNECT statements in the generated customization jobs.

When you are customizing a product on a Db2 subsystem that is a member of a data sharing group, how the Db2 subsystem is defined and the value of the **Use DB2 group attach** field determines the value that is used in the CONNECT statements in the generated jobs. The following table shows whether the SSID or the group attach name is used:

*Table 8. The effect of the value of the **Use DB2 group attach** field in a data sharing environment*

Db2 subsystem definition	Value of the Use DB2 group attach field	Value that is used in the CONNECT statements
The Db2 subsystem is defined with an SSID.	Yes	Group attach name
	No	SSID ¹
The Db2 subsystem is not defined with an SSID.	Yes or No	Group attach name

Note 1: If you generate jobs for multiple Db2 subsystems that are defined with an SSID and belong to the same data sharing group, the SSID of the first Db2 subsystem that is selected is used.

For example, assume that on the Customizer Workplace panel, you generated jobs for the following Db2 subsystems:

- DB2C, which is a stand-alone Db2 subsystem
- DB2A, which is a Db2 subsystem that is a member of data sharing group DSG1
- A Db2 subsystem that was not defined with an SSID that is a member of data sharing group DSGA

The following figure shows how these Db2 entries might be listed on the Customizer Workplace panel:

```

Associated DB2 Entries and Parameter Status
Line commands: G - Generate jobs  E - Edit  B - Browse  C - Copy  R - Remove
Cmd SSID GrpAttach Lvl Mode User ID Date      Status      Message
DB2C  --          121 NFM  SYSADM 2017/11/09 Ready to Customize
DB2A  DSG1       121 NFM  SYSADM 2017/11/09 Ready to Customize
--    DSGA       121 NFM  SYSADM 2017/11/09 Ready to Customize
----- End of DB2 entries -----

```

The following table shows which values are used in the CONNECT statements in the generated jobs, based on the value of the **Use DB2 group attach** field.

Table 9. Value that is used in the CONNECT statements in the generated jobs

SSID	GrpAttach	Value of the Use DB2 group attach field	Value that is used in the CONNECT statements
DB2C	--	Yes	SSID
		No	SSID
DB2A	DSG1	Yes	Group attach name
		No	SSID
--	DSGA	Yes	Group attach name
		No	Group attach name

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 (').

Volume serial

The volume name in which the discover output data set will reside. If you don't specify a volume name, it will be assigned by the system.

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 (').

Volume serial

The volume name in which the data store data set will reside. If you don't specify a volume name, it will be assigned by the system.

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.

Changing display options

You can choose which types of information to show on Tools Customizer panels. You can also copy your user profile to another data set so that it can be shared with other users.

About this task

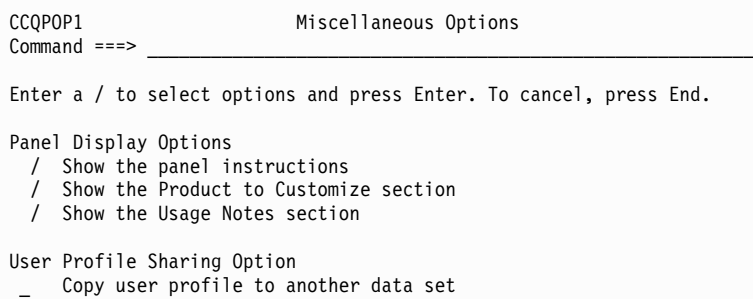
By using the OPTIONS command, you can choose to show or hide the following information on Tools Customizer panels:

- The instructions on all panels
- The Product to Customize section on the Customizer Workplace panel (CCQPWRK)
- The Usage Notes section on the Product Parameters panel (CCQPPRD)

The OPTIONS command also allows you to copy your user profile to another data set so that it can be shared with other users. By sharing a copy of your profile, other users can customize the same products that you initially customized or started to customize.

Procedure

1. On any Tools Customizer panel, issue the OPTIONS command. The Miscellaneous Options panel (CCQPOPT) is displayed, as shown in the following figure. By default, all panel display options are preselected with a slash (/), which means that they will be displayed.



```
CCQPOP1                               Miscellaneous Options
Command ===> _____

Enter a / to select options and press Enter. To cancel, press End.

Panel Display Options
/ Show the panel instructions
/ Show the Product to Customize section
/ Show the Usage Notes section

User Profile Sharing Option
_ Copy user profile to another data set
```

Figure 2. The Panel Display Options panel (CCQPOPT)

2. To hide the panel instructions, the Product to Customize section, or the Usage Notes section, remove the slash from the appropriate option or options.
3. To copy your user profile to another data set so that it can be shared with other users:
 - a. Type a slash in the **Copy user profile to another data set** field and press Enter.
 - b. Specify the fully qualified name of the data set into which you want to copy the current user profile. If the data set name exceeds 42 characters, enclose the name in quotation marks. ALTER or UPDATE authorization to this data set is required.
 - c. Optionally specify a volume name in which the user profile data set will reside. If you don't specify a volume name, it will be assigned by the system.
4. Press Enter to save your changes.

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 10. Customization roadmaps

Environment description	Roadmap
You do not have a customized version of Db2 Autonomics Director, and you need to customize it for the first time.	"Roadmap: Customizing Db2 Autonomics Director for the first time"
You have a customized version of Db2 Autonomics Director, but you want to change one or more parameter values.	"Roadmap: Recustomizing Db2 Autonomics Director" on page 32

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.

Table 11. Steps for customizing Db2 Autonomics Director for the first time

Step	Description	Instructions
1	Specify the product metadata library for the product that you want to customize. The name of this library is <i>hlq.SDYXDENU</i> .	"Specifying the metadata library for the product to customize" on page 33
2	Create new Db2 entries and associate them with Db2 Autonomics Director.	"Creating and associating Db2 entries" on page 35
3	Define the required parameters.	"Defining parameters" on page 36

Table 11. Steps for customizing Db2 Autonomics Director for the first time (continued)

Step	Description	Instructions
4	Generate the customization jobs for the product or for the Db2 entries on which Db2 Autonomics Director is ready to be customized.	"Generating customization jobs" on page 43
5	Submit the generated customization jobs.	"Submitting customization jobs" on page 44

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

Table 12. Administrative tasks

Description	Instructions
Browse the different types of parameters.	"Browsing parameters" on page 46
Copy an existing Db2 entry to the list of Db2 entries on which Db2 Autonomics Director can be customized.	"Copying Db2 entries" on page 47
Remove one or more Db2 entries from the associated list.	"Removing Db2 entries" on page 48
Delete one or more Db2 entries from the master list.	"Deleting Db2 entries" on page 49
Display a list of customization jobs that have been previously generated.	"Displaying customization jobs" on page 49
Maintain the customization jobs in the customization library.	"Maintaining customization jobs" on page 50

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 13. Required steps for recustomizing Db2 Autonomics Director

Step	Description	Instructions
1	Specify the product metadata library for the product that you want to recustomize. The name of this library is <i>hlq.SDYXDENU</i> .	"Specifying the metadata library for the product to customize"
2	Edit the specific tasks, steps, or parameters that need to be changed.	<ul style="list-style-type: none"> • "Defining Db2 Autonomics Director parameters" on page 37 • "Defining LPAR parameters" on page 39 • "Defining Db2 parameters" on page 41
3	Generate the customization jobs for the product or for the Db2 entries on which Db2 Autonomics Director is ready to be customized.	"Generating customization jobs" on page 43
4	Submit the new generated customization jobs.	"Submitting customization jobs" on page 44

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

Table 14. Administrative tasks

Description	Instructions
Browse the different types of parameters.	"Browsing parameters" on page 46
Copy an existing Db2 entry to the list of Db2 entries on which Db2 Autonomics Director can be customized.	"Copying Db2 entries" on page 47
Remove one or more Db2 entries from the associated list.	"Removing Db2 entries" on page 48
Delete one or more Db2 entries from the master list.	"Deleting Db2 entries" on page 49
Display a list of customization jobs that have been previously generated.	"Displaying customization jobs" on page 49
Maintain the customization jobs in the customization library.	"Maintaining customization jobs" on page 50

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 Product or Pack 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:

```
CCQPHLQ          Specify the Metadata Library          HH:MM:SS
Command ==>>>          Scroll ==> PAGE

Type the name of the metadata library for the product or the pack in the
Metadata library field, or select the library in the list of previous
libraries and press Enter to populate the field. Press Enter to continue.

The default name of the metadata library after the product or pack has been
SMP/E installed is <hlq>.SxxxDENU, where <hlq> is the high-level qualifier for
the product or the pack, and xxx is the three-character prefix for the product
or the pack.

Product or pack metadata library . DYX.DYX160.SDYXDENU

Name              Version  Metadata Library

=>
=>
=>
```

Figure 3. 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 **Product or pack 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 in any column of the Recent Metadata Libraries list, and press Enter to populate **Product or pack metadata library** field. Press Enter again to select product or pack for customization.

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:

```
CCQPDAD                      Associate DB2 Entry for Product          16:36:42
Command ==>                      Scroll ==> PAGE

Select any of the following DB2 entries to add them to the Customizer
Workplace panel. You use the Customizer Workplace panel to choose the DB2
subsystems, data sharing members, and group attach names on which to
customize the product.

Commands: CREATE - Create new DB2 entries

DB2 Entries
Line commands: A - Associate  C - Copy  D - Delete
Cmd SSID GrpAttch
*      *
----- End of DB2 entries -----
```

Figure 4. The Associate DB2 Entry for Product panel

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 to create one Db2 entry, or issue CREATE *nn* to create multiple Db2 entries, where *nn* is the number of new entries to be created. The Create DB2 Entries panel is displayed, as shown in the following figure:

```
CCQPCDB                      Create DB2 Entries                      Row 1 of 1
Command ==>                      Scroll ==> PAGE

Specify the SSID, the group attach name, or both in the appropriate columns
for each new DB2 entry and press Enter. To create additional entries, issue
the Inn line command, where nn is the number of entries to be inserted, and
press Enter. To cancel, press End.

New DB2 Entries
Line commands: I - Insert into list  R - Remove from list
Cmd SSID GrpAttch Message
----- End of DB2 entries -----
```

Figure 5. The Create DB2 Entries panel

- b. In the appropriate columns, specify a Db2 subsystem ID, Db2 group attach name, 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 *Inn* line command, where *nn* is the number of Db2 entries to be inserted.
- You will define specific parameters for these new Db2 entries, such as parameters that define a subsystem as primary, 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:

CCQPDAD
Associate DB2 Entry for Product
Row 1 to 3 of 3

Command ==>
Scroll ==> CSR

Select any of the following DB2 entries to add them to the Customizer Workplace panel. You use the Customizer Workplace panel to choose the DB2 subsystems, data sharing members, and group attach names on which to customize the product.

Commands: CREATE - Create new DB2 entries

DB2 Entries

Line commands: A - Associate C - Copy D - Delete

Cmd	SSID	Grp	Attch
*		*	
	DBAA	--	
	DBAB	--	
	DBAC	--	

----- End of DB2 entries -----

Figure 6. Associate DB2 Entry for Product panel

- 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 153

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.

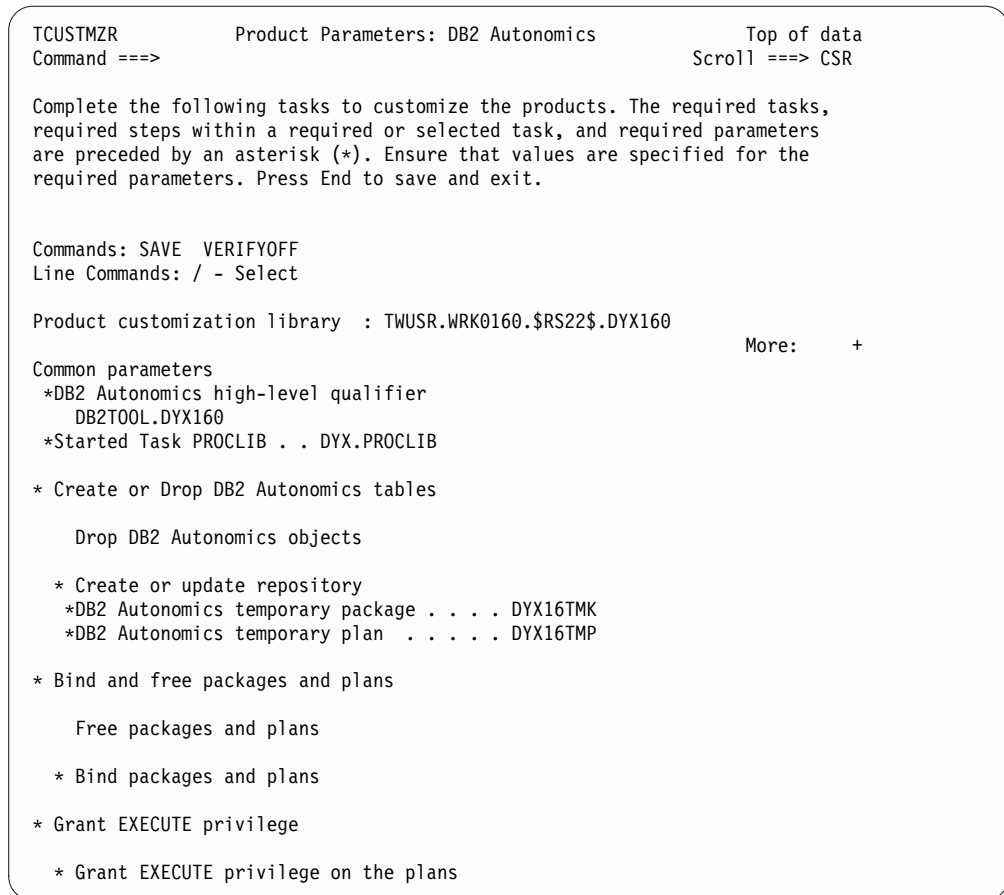


Figure 7. The Product Parameters panel

You can use the following primary commands on this panel:

SAVE Saves the specified product or component parameter values.

VERIFY / VERIFYOFF

Use the VERIFY and VERIFYOFF commands to turn on and off parameter verification of product or component parameters. Before you can generate customization jobs, you must verify that all required parameters are set to a valid value. The product or component parameter status of Verify Values on the Customize Workplace panel indicates that the values have not been verified.

Enter these commands either by typing them in the command field and pressing Enter or by positioning the cursor on the command and pressing Enter. When VERIFY is active, VERIFYOFF is displayed so that you can toggle between the two states. By default, verification is turned on when you display the DB2 Parameters panel, and the verification state is reset to VERIFY every time you exit the Customization Workplace panel by pressing PF3.

Turning verification off is useful when you need to exit the panel before you have entered all of the required parameters, but you want to save the parameters that you have specified. When you disable verification, it is disabled only for the Product or Component Parameters Values 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, Verify Values, 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 41

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:

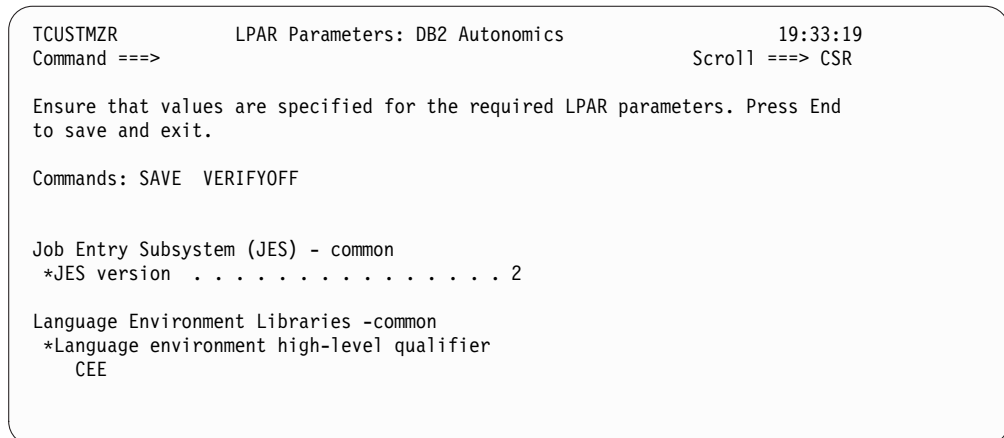


Figure 8. The LPAR Parameters panel

You can use the following primary commands on this panel:

SAVE Saves the specified product or component parameter values.

VERIFY / VERIFYOFF

Use the VERIFY and VERIFYOFF commands to turn on and off parameter verification of LPAR parameters. Before you can generate customization jobs, you must verify that all required parameters are set to a valid value. The LPAR parameter status of Verify Values on the Customize Workplace panel indicates that the values have not been verified.

Enter these commands either by typing them in the command field and pressing Enter or by positioning the cursor on the command and pressing Enter. When VERIFY is active, VERIFYOFF is displayed so that you can toggle between the two states. By default, verification is turned on when you display the LPAR Parameters panel, and the verification state is reset to VERIFY every time you exit the Customization Workplace panel by pressing PF3.

Turning verification off is useful when you need to exit the panel before you have entered all of the required parameters, but you want to save the parameters that you have specified. When you disable verification, it is disabled only for the LPAR Parameters Values panel.

- 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 contains 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, Verify Values, or Discovered, edit these parameters.

Related tasks:

“Defining Db2 Autonomics Director parameters” on page 37

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 35.

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:

TCUSTMZR
DB2 Parameters: DB2 Autonomics
21:35:51

Command ==>
Scroll ==> CSR

Ensure that values are specified for the required DB2 parameters. Press End to save and exit.

Commands: SAVE
VERIFYOFF

More:
+

DB2 subsystem ID : SS01
Group attach name

General DB2 Information - common
*Mode NFM (CM, NFM)
*Level number 121 (101, 111, 121)

DB2 Libraries - common
*Load library DSN.SDSNLOAD
*Run library DSN.RUNLIB.LOAD
*Exit library DSN.SDSNEXIT
Add
Add
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
*Plan name for the DSNTIAD utility DSNTIAD

DB2 Autonomics BIND Parameters
*BIND owner ID DB2USER
>User ID for GRANT statement PUBLIC
>

Figure 9. The DB2 Parameters panel

You can use the following primary commands on this panel:

SAVE Saves the specified product or component parameter values.

VERIFY / VERIFYOFF

Use the VERIFY and VERIFYOFF commands to turn on and off parameter verification of Db2 parameters. Before you can generate customization jobs, you must verify that all required parameters are set to a valid value. The Db2 parameter status of Verify Values on the Customize Workplace panel indicates that the values have not been verified.

Enter these commands either by typing them in the command field and pressing Enter or by positioning the cursor on the command and pressing Enter. When VERIFY is active, VERIFYOFF is displayed so that you can toggle between the two states. By default, verification is turned on when you display the DB2 Parameters panel, and the verification state is reset to VERIFY every time you exit the Customization Workplace panel by pressing PF3.

Turning verification off is useful when you need to exit the panel before you have entered all of the required parameters, but you want to save the parameters that you have specified. When you disable verification, it is disabled only for the DB2 Parameters Values panel.

- 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, Verify Values, or Discovered, edit these parameters.

Related tasks:

“Defining Db2 Autonomics Director parameters” on page 37

Db2 Autonomics Director parameters are specific to Db2 Autonomics Director.

“Defining LPAR parameters” on page 39

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 G 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.

TCUSTMZR

Finish Product Customization

Row 1 to 9 of 15

Command ==>

Scroll ==> CSR

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.

Line Commands: E - Edit B - Browse

Product customization library: TWUSR.WRK0160.\$RS22\$.DYX160

Cmd	Member	New	SSID	GrpAttch	Template	Date	Description
*	*	*	*	*	*	*	
-	----->						
	A0DROPAB	YES	SS01	--	DYXDROP	2017/09/26	Drop DB2 Autonomics tables
	A1DDL1AB	YES	SS01	--	DYXDDL1	2017/09/26	Create DB2 Autonomics Objec
	A2FREEAB	YES	SS01	--	DYXFREE	2017/09/26	Free packages and plans
	A3BINDAB	YES	SS01	--	DYXBIND	2017/09/26	Binds packages and plans
	A4GRANAB	YES	SS01	--	DYXGRANT	2017/09/26	Grants EXECUTE authority
	A5WLMAB	YES	SS01	--	DYXWLM	2017/09/26	Create WLM address space fo
	A6RUN1AB	YES	SS01	--	DYXRUN1	2017/09/26	Create batch job to run DB2
	A7TSNAB	YES	SS01	--	DYXTSNAB	2017/09/26	Create batch job to run RTS
	A8SRVCF	YES	--	--	DYXSRVCF	2017/09/26	Create server config file f
	A9AGTCF	YES	--	--	DYXAGTCF	2017/09/26	Create agent config file fo
	B0SSLCR	YES	--	--	DYXSSLCR	2017/09/26	Generate new key database
	B1AGTJB	YES	--	--	DYXAGTJB	2017/09/26	Create agent job for DB2 Au
	B2SRVJB	YES	--	--	DYXSRVJB	2017/09/26	Create server job for DB2 A
	B3AGTST	YES	--	--	DYXAGTST	2017/09/26	Create agent STC for DB2 Au
	B4SRVST	YES	--	--	DYXSRVST	2017/09/26	Create server STC for DB2 A
----- End of customized jobs -----							

Figure 10. The Finish Product Customization panel

The member-naming conventions depend on whether the customization jobs are for Db2 entries, and LPAR, or the product.

The New filed indicates if the job member is newly created/updated. It is either YES or NO. YES indicates the job member is newly created or updated, and it needs to be submitted for customization. NO indicates the job member is not newly created/updated, it does not need to be submitted for customization.

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 or E against a customization job or the product customization library, and press Enter. An ISPF browsing or editing 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 or component 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 *Imm* line command, where *nn* 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 153

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 153

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. Using the sample batch job to start the Db2 Autonomics Director stored procedure

A sample batch job is provided that can be used to start the Db2 Autonomics Director stored procedure. After configuring and generating the sample job using Tools Customizer, you can submit the job manually or insert the job into your job scheduler to start the Db2 Autonomics Director stored procedure in the required time frame.

Before you begin

A Db2 Autonomics Director stored procedure can only run within a defined maintenance window. You must ensure that the batch job runs within a scheduled maintenance window. If the job runs outside of a maintenance window, the stored procedure will start and then immediately terminate.

About this task

The batch job contains a step to start the stored procedure, and steps before and after that step to bind and free the packages associated with the stored procedure. You can insert other steps into the JCL to perform custom actions (such as send an email notification that the stored procedure started). However, do not modify or remove the step for the start of the stored procedure, or the BIND and FREE steps.

You can use this batch job as an alternative to scheduling the Db2 Autonomics Director stored procedure.

Procedure

1. Configure and generate the batch job using Tools Customizer.
2. Optional: Insert any additional steps in the JCL that you might want to run before or after the stored procedure starts.
3. Use your job scheduler to schedule the batch job to run within a Db2 Autonomics Director maintenance window, or submit the job manually. Instructions and parameters for calling the stored procedure are contained in the job. If you submit the job manually, ensure that the job is submitted within a defined maintenance window.

Chapter 6. Administering client, server, and agent communications for Db2 Autonomics Director

After you use Tools Customizer to set up and start the Db2 Autonomics Director server and agent jobs, you might need to maintain client, server, and agent communications.

These topics describe in detail the Db2 Autonomics Director server and agents, including how the server and agent communicate. They also provide instructions on how to start and stop the server and agent jobs and how to manage started jobs.

Establishing server, client, and agent communications

The Db2 Autonomics Director server, agents, and web interface client communicate with each other using TCP/IP connections.

Client-server communication

Using Tools Customizer, you as the administrator will configure the Db2 Autonomics Director server to run on a particular host machine. In addition, you will configure the server with a TCP/IP port number on which to listen for incoming connection requests from instances of the client. This value is specified in the **Web client listener port number** field of the Tools Customizer DB2 Autonomics Product Parameters panel.

The web client should be configured to use IP address on which the server is running, as well as the port number on which that server is configured to listen.

Agent-server communication

Using Tools Customizer, in addition to configuring the server for incoming client requests, you must specify the **Server address** and **Server agent-listener-port** fields of the Tools Customizer Product Parameters panels for communication with instances of the agent.

You must configure an instance of the agent to run on every machine (one agent per LPAR) that hosts a Db2 subsystem that is accessed by end users. When configuring each agent instance, specify the host name or IP address, and the port number on which the server is running. These are the same values that were specified in the **Server address** and **Server-agent-listener-port** of the Tools Customizer Product Parameters panel. When the agent is started, it uses this configuration information to connect to the server.

Note: Server and agents can be configured to connect to each other automatically.

Maintaining the Db2 Autonomics Director server

The Db2 Autonomics Director server centrally manages and controls all Db2 Autonomics Director functions that are performed on behalf of user requests.

You must run one instance of the server on any selected LPAR to manage requests from all of the web clients. The server communicates with these clients and agents. It redirects requests to agents to perform operations on Db2 subsystems, and sends the results back to the client in response.

Server environment

The Db2 Autonomics Director server runs as a batch job or started task under MVS™. You can manually submit this job, schedule it to be run automatically, or run it as an MVS started task. If the server job terminates for any reason, you must restart it, or take steps to have it automatically restarted.

Server security

The Db2 Autonomics Director server uses RACF security.

The server requires UNIX System Services access. The user ID under which the server job runs must have an OMVS segment in its RACF profile. To check whether the ID has an OMVS segment in its profile, use the following command:

```
LU userid OMVS
```

To add an OMVS segment to an ID's RACF profile, use the following command:

```
ADDUSER ddfluid OMVS(UID(nnn))
```

Server output

The primary output of the server job is log messages that provide status information about the ongoing operation of the server.

The log messages are written to the SYSPRINT DD. In addition to providing status information about the operation of the server, these messages record if and when errors occur.

In the event of exceptional conditions, additional messages might be written to the SYSOUT DD. If an abend occurs, dump information might be written to the CEEDUMP and/or SYSUDUMP DDs. This information can be used in diagnosis by product support.

Stopping the server

You use the following commands to stop and resume the Db2 Autonomics Director server.

About this task

The server accepts standard MVS /MODIFY and /STOP commands. From SDSF, or anywhere else that you can issue commands, you can issue these commands:

```
/MODIFY server-job-name,STOP SERVER
```

```
/MODIFY server-job-name,STOP
```

```
/STOP server-job-name
```

Initiates a graceful server shutdown. This causes the following sequence to occur:

1. The server stops accepting new client connections.
2. The server sends a message to all existing client connections that the server is trying to stop.
3. The server waits for all existing client sessions to end.

4. The server ends its own processing.

Any agents currently connected to the server continue running, attempting to reconnect to the server if or when it is restarted.

/MODIFY server-job-name,STOP AGENTS id

Stops a particular agent. If no *id* is given, then all agents are stopped. You can determine the ID value by issuing */MODIFY server-job-name,LIST SESSIONS*.

/MODIFY server-job-name,STOP ALL

Stops the Db2 Autonomics Director server and any agents that are currently connected to it.

/MODIFY server-job-name,FORCE

Initiates a server hard stop. This causes the following sequence to occur:

1. The server immediately drops all client connections.
2. The server initiates a cancel on all running threads.
3. The server exits after the threads exit.

This is not recommended under typical circumstances.

/MODIFY server-job-name,QUIESCE

Quiesces the server. The server will continue to service existing client connections, but will not accept any new connections.

/MODIFY server-job-name,RESUME

Resumes a quiesced server. The server again starts to accept new client connections.

Note: Client connections are internal (bridge) sessions that are used to communicate between the http server and the native server.

Administrative commands

You can use these commands to perform administrative tasks related to the client/server environment for Db2 Autonomics Director.

/MODIFY server-job-name,LIST SESSIONS

Produces a list of active client and agent sessions in the log, including the information for these fields:

- ID
- Type (client or agent)
- Start timestamp
- Local port
- Remote IP address
- Remote port
- State (active or stopping)
- Sysplex name (for agent sessions, as reported in agent topology)
- Machine name (for agent sessions, as reported in agent topology)
- Active request count

/MODIFY server-job-name,STOP SESSION session-id

/MODIFY server-job-name,FORCE SESSION session-id

Stops or forces the specified session.

/MODIFY *server-job-name*,LIST REQUESTS

/MODIFY *server-job-name*,LIST REQUESTS *session-id*

Produces a list of all active requests in the system or all active requests for the specified session ID, including the information for these fields:

- ID
- Type (request type ID)
- Target location (if any)
- Auth ID (if any)
- Session ID
- Session type (client or agent)

/MODIFY *server-job-name*,CANCEL REQUEST *request-id*

Cancels the specified request, where *request-id* is reported by LIST REQUESTS.

/MODIFY *server-job-name*,LIST LOCATIONS

/MODIFY *server-job-name*,LIST LOCATIONS *agent-session-id*

Produces a list of all known locations or all locations at a particular agent in the log, including the information for these fields:

- Agent session ID
- Location type
- Location name

Maintaining the Db2 Autonomics Director agent

The Db2 Autonomics Director agent provides access to database and system services, in support of the Db2 Autonomics Director server and interface clients.

You must run one instance of the agent on every system or LPAR that hosts Db2 subsystems or data sharing groups that you want to access with Db2 Autonomics Director. Each agent communicates with the Db2 Autonomics Director server to provide services.

Agent environment

The agent must be running in order for Db2 Autonomics Director users to perform any functions against Db2 subsystems on that LPAR.

The Db2 Autonomics Director agent runs as a batch job or started task under MVS. You can manually submit this job, schedule it to be run automatically, or run it as an MVS started task. If the agent job terminates for any reason, you must restart it, or take steps to have it automatically restarted.

The agent also requires UNIX System Services access. The user ID under which the agent job runs must have an OMVS segment in its RACF profile. To check whether the ID has an OMVS segment in its profile, use the following command:

```
LU userid OMVS
```

To add an OMVS segment to an ID's RACF profile, use the following command:

```
ADDUSER ddfluid OMVS(UID(nnn))
```

Agent security

The Db2 Autonomics Director agent has several levels of security considerations: APF authorization and BPX.SERVER access.

APF authorization

The Db2 Autonomics Director agent must run APF-authorized. Modify the IEAAPFxx or PROGxx PARMLIB members to define the Db2 Autonomics Director load library as an APF-authorized library.

BPX.SERVER access

If the BPX.SERVER FACILITY class profile is not defined within RACF, the user ID under which the agent job runs must be assigned a UID=0. If BPX.SERVER is defined, the user ID must be permitted to it:

```
PERMIT BPX.SERVER CLASS(FACILITY) ID(userID) ACCESS(READ)
```

where *userID* is the user ID under which the agent job runs.

If BPX.SERVER is defined, the agent must also run RACF program controlled. The following RACF commands establish the required definitions for the Db2 Autonomics Director load library and other required load libraries.

For the Db2 Autonomics Director load library:

```
RALTER PROGRAM * ADDMEM(<load-library-dataset-name>//NOPADCHK)
```

For the Language Environment[®] runtime libraries:

```
RALTER PROGRAM * ADDMEM('xxx.SCEERUN'//NOPADCHK)
```

```
RALTER PROGRAM * ADDMEM('xxx.SCEERUN2'//NOPADCHK)
```

where *xxx* is the high-level qualifier of the Language Environment data sets, typically CEE.

For each Db2 subsystem that is accessed by Db2 Autonomics Director:

```
RALTER PROGRAM * ADDMEM('DSN.Vxxx.SDSNEXIT'//NOPADCHK)
```

```
RALTER PROGRAM * ADDMEM('DSN.Vxxx.SDSNLOAD'//NOPADCHK)
```

where DSN.Vxxx.SDSNEXIT and DSN.Vxxx.SDSNLOAD name the Db2 load libraries required for accessing that subsystem.

After issuing any of the previous commands, the storage program control tables must be refreshed by issuing the following command:

```
SETROPTS REFRESH WHEN(PROGRAM)
```

Important: Some of these definitions might already be in place at your site. All of them are required.

Agent output

The primary output of the agent job is log messages that provide status information about the ongoing operation of the agent.

The log messages are written to the SYSPRINT DD. In addition to providing status information about the operation of the agent, these messages record if and when errors occur.

In the event of exceptional conditions, additional messages can be written to the SYSOUT DD. If an abend occurs, dump information might be written to the CEEDUMP and SYSUDUMP DDs. This information can be used in diagnosis by product support.

Stopping the agent

You use the commands in this section to stop the Db2 Autonomics Director agent.

About this task

The agent accepts standard MVS /MODIFY and /STOP commands. From SDSF (or anywhere else that you can issue commands), you can issue one of these commands:

/MODIFY *agent-job-name*,STOP

/STOP *agent-job-name*

This initiates a graceful agent shutdown. This causes the following sequence to occur:

1. The agent stops accepting new server requests.
2. The agent waits for all existing requests to finish.
3. The agent exits.

/MODIFY *agent-job-name*,FORCE

This initiates an agent hard stop. This causes the following sequence to occur:

1. The agent immediately stops accepting new server requests.
2. The agent initiates hard cancels on all running threads.
3. The agent exits as soon as the threads exit.

This is not recommended under normal circumstances.

Chapter 7. Troubleshooting

Use these topics to diagnose and correct problems that you experience with Db2 Autonomics Director and with Tools Customizer.

Gathering diagnostic information

Before you report a problem with Db2 Autonomics Director to IBM Software Support, you need to gather the appropriate diagnostic information.

Procedure

Provide the following information for all Db2 Autonomics Director 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 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 troubleshooting

Use this information to diagnose and correct problems that you experience with Tools Customizer.

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.

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.

CCQB002I The LPAR parameter data was saved in the data store.

Explanation: Changes that were made to the LPAR parameters were saved in the data store.

System action: None.

User response: No action is required.

CCQB003E At least one step must be selected in a selected task. The selected task is *task_description*.

Explanation: When a task is selected, at least one step must be selected. A selected step is missing from the specified task.

System action: Processing stops.

User response: Select a step in the specified task or deselect the task.

CCQB004I The required information to run the Discover EXEC was saved in the data store.

Explanation: The data store contains all the information that is required to run the Discover EXEC.

System action: None.

User response: No action is required.

CCQB005E The conflicting values for the *parameter_name* parameter must be resolved before the information can be saved.

Explanation: Two values for one parameter conflict with each other, and they must be resolved to save the information.

System action: Processing stops.

User response: Resolve the conflicting values for the parameter.

CCQB006E One row must be selected.

Explanation: One row in the table must be selected.

System action: Processing stops.

User response: Select one row.

CCQB007E Only one row can be selected.

Explanation: Multiple rows in the table are selected, but only one row is allowed to be selected.

System action: Processing stops.

User response: Select only one row.

CCQC000I The jobs have been customized on the selected DB2 entries.

Explanation: The jobs were customized on the Db2 entries that were selected.

System action: None.

User response: Press Enter to clear the message.

CCQC001W The jobs were not generated on one or more of the selected DB2 entries. Press PF3 to check the Db2 entries that were not customized.

Explanation: The product was not customized on one or more of the Db2 entries that were selected.

System action: None.

User response: Press PF3 to see the Db2 entries on which the product was not customized. The status of these Db2 entries is Errors in Customization.

CCQC002I The edit session was started automatically because values for required parameters are missing or must be verified.

Explanation: If product, LPAR parameters, or Db2 parameters are not defined or if parameter definitions must be verified, an editing session for the undefined or unverified parameters starts automatically.

System action: None.

User response: Define values for all required product, LPAR parameters, or Db2 parameters.

CCQC003W The *template_name* template in the *library_name* metadata library does not contain any parameters.

Explanation: The specified template does not have parameters.

System action: None.

User response: No action is required.

CCQC004S The value of the "type" attribute for the *template_name* template in the *library_name* metadata library 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 of the "type" attribute must match the value that was previously specified.

System action: Processing stops.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

CCQC005S The *template_name* template exceeds the number of allowed templates for a customization sequence. The template is in the *library_name* metadata library.

Explanation: The customization sequence can process only *number* templates. The specified template cannot be processed because the customization sequence already contains the maximum number of templates.

System action: Processing stops.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

CCQC006E The jobs could not be generated for the *group_attach_name* Db2 group attach name.

Explanation: The customization jobs could not be generated for the specified Db2 group attach name.

System action: Processing stops.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

CCQC007E The jobs could not be generated for the *subsystem_ID* Db2 subsystem.

Explanation: The customization jobs could not be generated for the specified Db2 subsystem.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQC008E The jobs could not be generated for the *member_name* Db2 member.

Explanation: The customization jobs could not be generated for the specified Db2 member.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQC009S The jobs were not generated for the DB2 entries.

Explanation: One or more errors occurred while customization jobs were being generated for the selected Db2 entries.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQC010S The *template_name* template could not be accessed in the *library_name* metadata library.

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.

System action: Processing stops.

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 *template_name* template could not be written to the *library_name* customization library.

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.

System action: Processing stops.

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.

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.

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 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.

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

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQC023S 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 61. Contact IBM Software Support.

CCQC024S 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 ISPFITRC command, and press Enter.
3. Issue the Tools Customizer command that issues the error.
4. Specify the ISPFITRC command, and press Enter. The ISPF file tailoring trace data set is created. It adheres the following naming convention:

TSO_ID.ISPFT.TRACE, 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.

CCQC025I 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.

CCQC026S 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 61. Contact IBM Software Support.

CCQC027S 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 61. Contact IBM Software Support.

CCQC028S 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 61. Contact IBM Software Support.

CCQC029I 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.

CCQC030S 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.

System action: None.

User response: Associate a Db2 entry with the product that you are customizing, and regenerate the jobs.

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: No action is required.

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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

CCQC037W The customization information was not found.

Explanation: To use the JOBLIST command, the customization jobs must be regenerated by using the GENERATEALL command or the G line command.

System action: None.

User response: Issue the GENERATEALL command or the G line command to generate the customization jobs.

CCQC038W The customization information cannot be accessed because the customization_member customization member is being used.

Explanation: The customization member that was specified on NNN is currently being used.

System action: None.

User response: Determine why the customization member is in use, release it, and redo the work.

CCQC039I The VERIFY/VERIFYOFF command is not active in Generate mode.

Explanation: The VERIFY/VERIFYOFF command is not active in Generate mode because all values saved in Generate mode must already have been verified.

System action: None.

User response: No action is required.

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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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 61. Contact IBM Software Support.

information” on page 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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. Ensure that the Tools Customizer data store data set DCB is the same as the sample SCCQSAMP(CCQCDATS) data set DCB.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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

enough times in the product index member.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 61. 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 61. 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 61. 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 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 61. Contact IBM Software Support.

CCQD112S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQD113S The XML structure 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 61. 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 61. 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 61. Contact IBM Software Support.

CCQD121I The specified pack contains the *component_name*, which was previously specified as a stand-alone product.

Explanation: The specified component of the pack was previously specified as a stand-alone product.

System action: None.

User response: No action is required.

CCQD122I The specified component metadata library was previously specified as part of the *pack_name*.

Explanation: The specified metadata library for the component was previously specified as part of a pack.

System action: None.

User response: No action is required.

CCQD123E The customization library name *library_name* is being used by another product or component. Specify another customization library qualifier on the Tools Customizer Settings panel.

Explanation: A different product or component is using the specified customization library.

System action: None.

User response: Specify another customization library qualifier on the Tools Customizer Settings panel.

CCQD124E The customization library *library_name* is in use by another metadata library.

Explanation: A different product or component is using the specified customization library. Specify another metadata library in the Workplace panel.

System action: None.

User response: Specify another customization library qualifier in the Tools Customizer Settings panel.

CCQD300W The *member_name* product environment member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.

Explanation: While determining if the product environment 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.

CCQD301S The *member_name* product environment member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.

Explanation: While determining if the product environment 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.

CCQD302S The XML structure of the *member_name* product environment member is not valid. The *element_name* element is unknown.

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQD303S 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.

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQD304S 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.

Explanation: The specified element does not contain required content.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQD305S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

CCQD400W The customization parser issued the *code_number* warning code while it parsed the product customization member *member_name*. See the PL/I programming guide for more information about this XML parser continuable exception code.

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

System action: Processing stops.

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

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 store data set *data_set_name* already exists in a different volume.

Explanation: Tools Customizer could not create the specified data set because the specified data set already exists in a different volume. Data store data set names must be unique.

System action: Processing stops.

User response: Specify a different data store data set name.

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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

CCQD516E The specified DB2 entry already exists in the list of Db2 entries on the Associate DB2 Entry with Product panel but is not associated with the current product.

Explanation: The Db2 entry exists, but it must be associated with the product to be customized.

System action: None.

User response: On the Customizer Workplace panel, issue the ASSOCIATE command to associate the Db2 entry with the product.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 a different Db2 member for the Db2 group attach name.

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 Db2member 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 *product_name* is not associated with a DB2 entry.

Explanation: The product that you are trying to customize is not associated with a Db2 entry. Before a product can be customized, it must be associated with at least one Db2 entry.

System action: None.

User response: Associate one or more Db2 entries with the product.

CCQD569I The *product_name* product configuration is not associated with a DB2 entry.

Explanation: The configuration for the specified product is not associated with a Db2 entry.

System action: None.

User response: 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.

CCQD579W 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.

CCQD580S 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.

CCQD581S 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.

CCQD582S 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.

CCQD583I The *from_DB2* Db2 subsystem was copied to the *to_DB2* subsystem.

System action: None.

User response: No action is required.

CCQD584I The *member_name* DB2 member for the *group_attach_name* DB2 group attach name is copied to the *subsystem_ID* DB2 subsystem.

Explanation: The specified Db2 member was copied.

System action: None.

User response: No action is required.

CCQD585I The *group_attach_name* Db2 group attach name cannot be copied because a Db2 member is required.

Explanation: The specified Db2 group attach name was not copied because a Db2 member was missing.

System action: None.

User response: No action is required.

CCQD586S The current LPAR is *LPAR_name*, but the data store contains information about the *LPAR_name* LPAR. You must use the *LPAR_name* LPAR to customize the product.

Explanation: The LPAR that is stored in the data store data set must be used to customize the product.

System action: Processing stops.

User response: Use the LPAR that is stored in the data store data set.

CCQD587W 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.

CCQD588W 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.

CCQD589W 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic

information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 61. 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 61. Contact IBM Software Support.

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 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.

CCQD852I 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.

User response: No action is required.

CCQD854I The *member_name* Db2 member for the *group_attach_name* Db2 group attach name is copied to multiple Db2 entries.

User response: No action is required.

CCQD900W The *member_name* product 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 product 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.

CCQD901S The *member_name* product 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 product 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 warning code.

CCQD950W The *value_number* value in the product 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 product parameter.

System action: Processing continues.

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

CCQD960I The *subsystem_ID* Db2 subsystem was changed to the *member_name* Db2 member for the *group_attach_name* Db2 group attach name.

User response: No action is required.

CCQD961I The *member_name* Db2 member for the *group_attach_name* Db2 group attach name was changed to the *subsystem_ID* Db2 subsystem.

User response: No action is required.

CCQD962I 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.

User response: No action is required.

CCQD963E The DB2 group attach name cannot be blank when the Db2 subsystem ID is blank.

Explanation: A Db2 group attach name, Db2 subsystem ID, or both must be specified.

System action: Processing stops.

User response: Specify a Db2 group attach name, Db2 subsystem ID, or both.

CCQE000S The specified message field name or message *message_ID* was not found.

Explanation: An error occurred while displaying a message field name or the specified message.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQE001E An incorrect trace level was specified. Valid trace levels are 0 - 4.

Explanation: A wrong trace level was specified. Valid trace levels are 0 - 4.

System action: Processing stops.

User response: Specify a valid trace level 0 - 4.

CCQF028E An asterisk was improperly specified in a filter argument.

Explanation: An asterisk, which is treated as data, is embedded in the filter arguments. A generic filter argument is specified by placing the asterisk in the last nonblank position of the argument. No rows match the filter arguments, so all rows will be shown.

System action: Processing stops.

User response: Specify a valid filter argument.

CCQF029I More Db2 entries are associated with the specified product. All Db2 entries are listed.

System action: None.

User response: No action is required.

CCQF080I The customized jobs for the product that you are customizing are stored in this data set.

System action: None.

User response: No action is required.

CCQF081I The JCL must be browsed or edited.

Explanation: You can either browse or edit the JCL.

System action: None.

User response: No action is required.

CCQF082E The *sort-command* command has an invalid sort field or order. The valid fields are *list-of-column-names*. The valid sort orders are A (for ascending) or D (for descending).

Explanation: An invalid sort field or order was specified.

System action: Processing stops.

User response: Specify a valid sort field or order.

CCQF083E The *sort-command* command is missing a sort field.

Explanation: A sort field must be specified.

System action: Processing stops.

User response: Specify a valid sort field.

CCQF084E The *sort-command* command has more than two sort fields specified.

Explanation: The specified sort command included more than two sort fields. The sort command can have up to two fields specified.

System action: Processing stops.

User response: Specify only one or two sort fields.

CCQF085E A sort order was specified incorrectly in the *sort-command* command. A sort order can be specified only after a field name.

Explanation: Valid orders are A (for ascending) or D (for descending).

System action: Processing stops.

User response: Specify a valid sort order after a field name.

CCQF086E The *sort-command* command has an invalid sort field. The valid fields are *list-of-the-table-column-names*.

Explanation: An invalid sort field was specified.

System action: Processing stops.

User response: Specify a valid sort field.

CCQF087E The *sort-command* command has an invalid sort order. The valid orders are A (for ascending) or D (for descending).

Explanation: An invalid sort order was specified.

System action: Processing stops.

User response: Specify a valid sort order.

CCQF088E No row match the specified filter argument. All rows are shown.

Explanation: No rows match the selected values.

System action: Processing stops.

User response: Specify a matched value for filtering.

CCQF089I Type the search arguments to filter objects. A generic filter argument is a search argument of the form AA*.

Explanation: In a generic filter argument, only the characters up to the asterisk (*) are compared. The * must be placed in the last nonblank position of the argument. Asterisks embedded in the argument are treated as data.

System action: None.

User response: No action is required.

CCQF110I To show the panel instructions section, specify a slash (/). To hide the panel instructions section, remove the slash.

System action: None.

User response: No is action required.

CCQF111I To show the Products to Customize section, specify a slash (/). To hide the Products to Customize section, remove the slash. The Product to Customize section can be shown or hidden only on the Customizer Workplace panel.

System action: None.

User response: No is action required.

CCQF112I To show the Usage Notes section, specify a slash (/). To hide the Usage Notes section, remove the slash. The Usage Notes section can be shown only on the Product Parameters, LPAR Parameters, and DB2 Parameters panels.

System action: None.

User response: No action is required.

CCQF113I The specified values have been saved.

System action: None.

User response: No action is required.

CCQF114I Displays the Panel Display Options panel. Use this panel to select which information to display on panels .

System action: None.

User response: No action is required.

CCQF116I The fully qualified name of the data set into which you want to copy the current user profile. If the data set name exceeds 42 characters, enclose the name in quotation marks. ALTER or UPDATE

authorization to this data set is required.

System action: None.

User response: No action is required.

CCQF117I The volume name in which the data set will reside. If left blank, the volume name will be decided by the system.

System action: None.

User response: No action is required.

CCQF110I To show the panel instructions section, specify a slash (/). To hide the panel instructions section, remove the slash.

System action: None.

User response: No is action required.

CCQH001W The specified option *option_name* is not valid.

Explanation: The option that was specified is not a valid option on the panel.

System action: Tools Customizer stops.

User response: Specify a valid option on the panel.

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: Verify the user settings.

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

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: Change the user settings.

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 warning 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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

User response: See "Gathering diagnostic information" on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI056S The CCQ\$\$LPR 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic

information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 61. 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 61. 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* parameter metadata member.**

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. 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 61. 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 61. 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 61. 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI073S The XML structure of the *member_name* Db2 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI074S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI075S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI077S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI088I **The *command* command is not active in BROWSE mode.**

Explanation: The specified command can be entered only in Edit mode.

System action: Processing continues.

User response: Put the panel in Edit mode and reissue the command.

CCQI089I **The *command* command is already active.**

System action: Processing continues.

User response: No action required.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 warning 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI114S The content of the *member_name* LPAR 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 LPAR parameter metadata member is not valid.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI115S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI116S 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*.

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI117S **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*.**

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI120S **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*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI121S **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*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI122S **The XML structure of the *member_name* 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*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI123S **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*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI124S **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*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 stops.

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

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 “Gathering diagnostic

information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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 61. 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI218S The content of the *member_name* information metadata member is not valid. The length of the *value_name* value that 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 PL/I XML parser issued the following exception error code: *code_number*.

Explanation: While determining if the sequence 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, and contact IBM Software Support.

CCQI302S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI303S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI304S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI305S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 attribute cannot contain content.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 is missing required content.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 61. 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 the 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: 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. The PL/I XML parser issued the following exception error code: *code_number*.

Explanation: While determining if the 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 warning code.

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 61. Contact IBM Software Support.

CCQI403S 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 61. Contact IBM Software Support.

CCQI404S 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 61. 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 61. Contact IBM Software Support.

CCQI406S The XML structure of the *member_name* 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI407S The XML structure of the *member_name* 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 “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI408S The XML structure of the *member_name* 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI409S The XML structure of the *member_name* 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI410S The XML structure of the *member_name* 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI411S The XML structure of the *member_name* 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI412S 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 61. Contact IBM Software Support.

CCQI413S The XML structure of the *member_name* parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: Ensure that the data store data set exists.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 warning 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 PL/I XML parser issued the following exception error 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.

CCQI602S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI603S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI604S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI605S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI606S The XML structure of the *member_name* product customization 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 in the product customization parameter metadata member.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 must occur at least *minimum_number* times.

Explanation: The specified attribute does not occur enough times in the product customization parameter metadata member.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic

information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI612S The XML structure of the *member_name* product customization parameter metadata member is not valid. The content length for the *attribute_name* attribute in the *element_name* element cannot exceed *maximum_number* characters.

Explanation: The specified attribute contains too many characters.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI613S The XML structure of the *member_name* product customization parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.

Explanation: The specified product customization parameter metadata member contains an unknown attribute.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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 *value_name*.

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

System action: Processing stops.

User response: See “Gathering diagnostic

information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic

information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI652S The *member_name* product customization 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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*.

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic

information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI708S 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.

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI709S 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.

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI710S 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.

Explanation: The specified attribute cannot have content.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI711S 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.

Explanation: The specified attribute is missing content.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI712S 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.

Explanation: The specified attribute contains too many characters.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI713S 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.

Explanation: The specified attribute in the solution pack metadata member is unknown.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI714S The XML structure of the *member_name* solution pack 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI715S 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*.

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

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI751S The version in the *library_name* solution pack metadata library is different than the version in the *library_name* component metadata library. The name of the pack is *pack_name*, and the name of the component is *component_name*.

Explanation: The version in the solution pack metadata library does not match the version in the component metadata library.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI752S The release in the *library_name* solution pack metadata library is different than the release in the *library_name* component metadata library. The name of the pack is *pack_name*, and the name of the component is *component_name*.

Explanation: The release in the solution pack metadata library does not match the release in the component metadata library.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI753S The modification level in the *library_name* solution pack metadata library is different than the modification level in the *library_name* component metadata library. The name of the pack is *pack_name*, and the name of the component is *component_name*.

Explanation: The modification level in the solution pack metadata library does not match the modification level in the component metadata library.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQI755S The XML structure of the *member_name* parameter metadata member is not valid. When a default value is not specified in the metadata member, the "required" attribute with a value of "true" cannot be specified.

System action: Processing stops.

User response: Contact IBM Software Support.

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 warning 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 “Gathering diagnostic information” on page 61. 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 “Gathering diagnostic information” on page 61. 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 “Gathering diagnostic information” on page 61. 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 “Gathering diagnostic information” on page 61. 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 “Gathering diagnostic information” on page 61. 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 “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO008S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO009S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO010S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO011S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO012S 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 cannot exceed *maximum_number* characters.

Explanation: The specified attribute contains too many characters.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO013S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO014S 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: A The specified value for an element in the discover parameter metadata member is not valid.

System action: Processing stops.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO015S 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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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: See “Gathering diagnostic information” on page 61. 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: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

CCQO061I 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:

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.

User response: If this parameter is required, contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

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.

System action: None.

User response: No action is required.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

User response: See “Gathering diagnostic information” on page 61. Contact IBM Software Support.

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.

System action: Processing continues.

User response: No action is required.

CCQO077S 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 61. Contact IBM Software Support.

CCQO078I Additional configurations were discovered and saved in the data store. All Db2 entries associated with this configuration are listed.

System action: None.

User response: No action is required.

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 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 61. 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.

CCQQ002E The data set name that was specified for the *library_name* metadata library cannot be opened.

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.

CCQQ003E The *data_set_name* data set name that was specified for the metadata sample library is not valid. The data set must be in the following format:
HLQ.SxxxSAMP.

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: HLQ.SxxxSAMP, where xxx is the three-character prefix for the product.

CCQQ004E The *data_set_name* data set is being used by another user. Try again when the data set is not being used.

Explanation: Another user is using the specified data set.

System action: None.

User response: Ensure that the specified data set is not being used.

CCQQ009E The *data_set_name* data set name that was specified for the metadata library is not valid because the data set is empty.

Explanation: The specified data set is empty.

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.

CCQQ011E The *library_name* metadata library for the component that is part of the *library_name* pack was not found in the catalog. The name of the pack is *pack_name*, and the name of the component is *component_name*.

Explanation: The specified metadata library is not in the catalog.

System action: None.

User response: Specify another metadata library.

CCQQ012E The *library_name* metadata library for the component that is part of the *library_name* pack cannot be opened.

Explanation: The specified metadata library cannot be opened.

System action: None.

User response: Ensure that the name of the library is specified correctly.

CCQS000I 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.

Explanation: When you customize a stand-alone product or a solution pack for the first time, or when an ISPF session unexpectedly ends before the ISPF profile is saved, you must specify or review your Tools Customizer user settings.

System action: Processing stops.

User response: Review and accept the default settings, or specify new settings.

CCQS001E The following command is not valid:
command_name.

Explanation: The specified command is not a valid command on the panel.

System action: Processing stops.

User response: Specify a valid command.

CCQS002W The *data_set_name* Discover data set could not be found.

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

System action: The data set will be allocated, and processing continues.

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 data set to which you have WRITE access.

CCQS008E The Discover data set *data_set_name* exists on a different volume.

Explanation: The specified Discover data set must exist on the same volume as where it was created.

System action: Processing continues.

User response: Specify a different Discover data set name.

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.

CCQS025I The display options were saved.

System action: None.

User response: No action is required.

CCQS026E The customization library data set *data_set_name* could not be opened because the requester does not have UPDATE authority on this data set.

Explanation: Users must have UPDATE authority to open the customization library data set. Users must have UPDATE authority to open the customization library data set.

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.

CCQS027E The customization library data set *data_set_name* could not be created because the requester does not have ALTER authority on this data set.

Explanation: To create the customization library data set, ALTER authority on the data set must be granted.

System action: Processing stops.

User response: Ensure that ALTER authority for the specific 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.

CCQS029E The customization library data set is not valid. Enter a valid data set name or use the Tools Customizer default: *data_set_name*.

Explanation: The specified data set is invalid.

System action: Processing stops.

User response: Specify a valid data set name.

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*. The number that can be specified with the CREATE command is 1 - 99.

Explanation: The specified CREATE command statement is invalid because it contains either 0 or a number greater than 99.

System action: Processing stops.

User response: Specify a valid CREATE command statement. The correct syntax is CREATE *nn*, where *nn* is 1 - 99.

CCQS033E A user profile cannot be copied into the same user profile

Explanation: The specified data set cannot be copied into user's own user profile.

System action: Processing stops.

User response: Enter a different data set name.

CCQS034E The shared user profile data set *data_set_name* could not be created because the requester does not have UPDATE authority on this data set or because the data set already exists in another volume serial.

Explanation: To create a shared user profile data set, the requester must have update authority on the data set, and the specified data set name must be unique.

System action: Processing stops.

User response: Ensure that the requester has UPDATE authority on the data set and ensure that the data set name is unique.

CCQS035E The specified data set already has a user profile. Specify a different data set, or press Enter again to replace the existing user profile.

Explanation: Pressing Enter overwrites the previous user profile for the specified data set with user's own user profile.

System action: Processing stops.

User response: Specify a different data set name.

CCQS036E The customization library *data_set_name* already exists in *volume* and cannot be created in a different volume. Enter a different customization library name.

Explanation: The same data set name cannot exist in a different volume.

System action: Processing stops.

User response: Specify a different data set name.

CCQS037E The data set name was either not specified or invalid.

Explanation: The data set name specified does not follow the IBM data set name convention.

System action: Processing stops.

User response: Specify a valid data set name.

CCQS038E The specified data set cannot be used.

Explanation: The specified data sets contain information that supports Tools Customizer, but this data set cannot be used.

System action: Processing stops.

User response: Specify a different data set.

CCQS039E The specified data set has an invalid record format.

Explanation: The specified data set should be saved as a different record format. For example, the record format should be FB (Fixed Block) but it is set to VB (Variable Block).

System action: Processing stops.

User response: Specify a valid record format.

CCQT000I The product configuration ID *copied_configuration_ID* was successfully copied from *configuration_ID*.

Explanation: The specified configuration ID was copied.

System action: None.

User response: No action is required.

CCQT001E The *command_name* line command was specified more than once, which is not allowed.

Explanation: The specified line command cannot be specified more than one time.

System action: Processing stops.

User response: Specify the line command only once.

CCQT002E The *configuration_ID* configuration ID already exists. Specify a different configuration ID.

Explanation: The specified configuration ID exists.

System action: Processing stops.

User response: Ensure that the specified configuration ID is unique.

CCQT003I The product configuration ID *configuration_ID* was created.

Explanation: The specified configuration ID was created.

System action: None.

User response: No action is required.

CCQT004I The product configuration ID *configuration_ID* was removed.

Explanation: The specified configuration ID was removed.

System action: None.

User response: No action is required.

CCQT005E The product configuration ID *configuration_ID* is not valid. The product configuration ID cannot contain a colon (:).

Explanation: The specified configuration ID contains a colon (:), but a colon is not valid.

System action: Processing stops.

User response: Specify a configuration ID that does not contain a colon.

CCQT006E The *configuration_ID* configuration ID exists. Specify a different configuration ID.

Explanation: The specified configuration ID exists.

System action: Processing stops.

User response: Specify another configuration ID.

CCQT007E The *configuration_ID* configuration ID exists but was removed from the list of configurations. To use this configuration ID, you must restore it.

Explanation: The specified configuration ID exists but was removed from the list of available configuration.

System action: Processing stops.

User response: Specify another configuration ID. To restore the specified configuration ID, issue the CREATE command, and specify the same configuration ID again.

CCQT008E The *configuration_ID* configuration ID exceeds *maximum_number* characters.

Explanation: The specified configuration ID contains too many characters.

System action: Processing stops.

User response: Specify another configuration ID that does not exceed the maximum number of characters that was set by Db2 Autonomics Director.

CCQT010I Create request for *configuration_ID* configuration was canceled by user.

Explanation: The request to create the specified configuration was canceled.

System action: Processing stops.

User response: No action is required.

CCQT011I **The *configuration_ID* configuration was not copied.**

Explanation: The specified configuration was not copied.

System action: Processing stops.

User response: No action is required.

CCQT012I **The *configuration_ID* configuration was not removed.**

Explanation: The specified configuration was not removed.

System action: Processing stops.

User response: No action is required.

CCQT013I **None of the configurations were copied or removed. All of the previously selected configurations are deselected.**

Explanation: The selected configurations were not copied or removed, and they are deselected.

System action: Processing stops.

User response: No action is required.

CCQT014E **Specify Y or N and press Enter to continue, or press End to cancel.**

Explanation: A function requires input.

System action: Processing stops.

User response: To continue, specify Y or N and press Enter. Otherwise, press End to cancel.

CCQT015E **The *command_name* command is not allowed during the process of "Select" configuration line command.**

Explanation: The specified command is not allowed while the line command for selecting configurations is processing.

System action: Processing stops.

User response: Remove the specified line command.

CCQT016I **The *configuration_ID* configuration was not created**

Explanation: The specified configuration was not created.

System action: Processing stops.

User response: No action is required.

CCQT017I **The *configuration_ID* configuration was not copied.**

Explanation: The specified configuration was not copied.

System action: Processing stops.

User response: No action is required.

CCQT018E **Specify Y or N, and press Enter.**

Explanation: A function requires input.

System action: Processing stops.

User response: To continue, specify Y or N, and press Enter.

CCQT019I **The select *configuration_ID* configuration process ended.**

Explanation: The select process for the specified configuration is finished.

System action: Processing stops.

User response: No action is required.

CCQT020E **The *configuration_ID* configuration was not created because the data store was not accessible.**

Explanation: The specified configuration was not created because the data store could not be accessed.

System action: Processing stops.

User response: Ensure that the data store is accessible and create the configuration again.

CCQT021E **The *configuration_ID* configuration was not copied because the data store was not accessible.**

Explanation: The specified configuration was not copied because the data store could not be accessed.

System action: Processing stops.

User response: Ensure that the data store is accessible and copy the configuration again.

CCQT025I **The *configuration_ID* configuration was not updated.**

Explanation: The specified configuration was not updated because the edit process was canceled.

System action: Processing stops.

User response: No action is required.

CCQT027I The product configuration ID has been updated from *edit_from_id* to *edit_to_id*.

System action: Processing continues.

User response: No action is required.

CCQT028I The product configuration ID has been updated from *edit_from_id* to *edit_to_id*, and the description has been updated from *edit_from_des* to *edit_to_des*.

System action: Processing continues.

User response: No action is required.

CCQT029I The product configuration description has been updated from *edit_from_des* to *edit_to_des*.

System action: Processing continues.

User response: No action is required.

CCQX001S *Product_name* has already been customized by using values from *data_set_name* data store data set. Switch to the specified data store data set to continue customizing this product.

Explanation: The specified product was customized by using values from the specified data store data set.

System action: Processing stops.

User response: Use the specified data store data set to continue customizing the product.

CCQX002S *component_name* has already been customized by using values from *data_set_name* data store data set. Switch to the specified data store data set to continue customizing this component.

Explanation: The specified component was customized by using values from the specified data store data set.

System action: Processing stops.

User response: Use the specified data store data set to continue customizing the component.

CCQX011I *Product_name* was not found.

Explanation: The specified product was not found.

System action: Processing stops.

User response: Specify another product.

Db2 Autonomics Director messages

Use the information in these messages to help you diagnose and solve Db2 Autonomics Director and Tools Customizer problems.

Message format

Db2 Autonomics Director messages adhere to the following format:

DYXXnnnx

where:

DYX Indicates that the message was issued by Db2 Autonomics Director

X One of the following:

R or S Indicates the stored procedure to which the message is related:

R Indicates that the message is related to the RTS_SNAPSHOT stored procedure.

S Indicates that the message is related to the Db2 Autonomics Director stored procedure.

Other letters

Indicate that the message is from the Db2 Autonomics Director server or agent.

nnn Indicates the message identification number

x Indicates the severity of the message:

E Indicates that an error occurred, which might or might not require operator intervention.

- I** Indicates that the message is informational only.
- S** Indicates that the message is a status message; no user action is required.
- 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.

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.

DYXC005I Relay legacy client shutting down.

Explanation: Indicates that relay legacy client is shutting down.

User response: No action is required.

DYXE001I DYXNTFY Build: mm/dd/yy hh.ss

Explanation: This message displays the date and time that the profile containing the autonomics notification was built.

User response: No action is required.

DYXE002E Notification Function error.

Explanation: An internal error occurred during autonomic notification.

User response: Contact IBM Software Support.

DYXE003E Notification Settings not found.

Explanation: The notification settings are invalid. The notification settings are configured during product customization using Tools Customizer.

User response: Ensure the Tools Customizer DB2 Parameters panel settings contains valid settings for autonomic notifications.

**DYXE004E Invalid value for setting
notification_setting.**

Explanation: The notification setting that is listed in the message is invalid. This notification setting was configured during product customization using Tools Customizer.

User response: Ensure the Tools Customizer DB2 Parameters panel settings contains valid settings for autonomic notifications.

DYXE005E Invalid setting keyword.

Explanation: An invalid keyword was encountered in notification settings.

User response: Ensure that the notification setting keywords are valid.

DYXE006E Notification Profile does not exist.

Explanation: The notification profile associated with the action does not exist.

User response: Create a notification profile and associate it with the job profile, then rebuild the job profile.

DYXE008E Expected setting continuation not found.

Explanation: An invalid continuation character was found in notification settings.

User response: Ensure that the notification setting keywords are delimited with a comma.

DYXE009I Event not in registry.

Explanation: The event that is specified has not been added to the event registry table.

User response: Add the event to the event registry table.

DYXE010E Invalid operator.

Explanation: The operator for the registered event is invalid.

User response: Ensure that the event operator in the event registry table is valid. Valid values are EQ, NE, LE, LT, GE, or GT.

DYXP001I Received shutdown request.

Explanation: Indicates that the server has received a shutdown request.

User response: No action is required.

DYXP002I *Servename* **server started.**

Explanation: Indicates that the server with the specified name was started. Possible server names are Web or XML Socket Policy File.

User response: No action is required.

DYXP003I **Starting the socket selector thread (thread *number*).**

Explanation: The server is starting a separate thread to manage activity on the socket. You can track this thread by its *number*.

User response: No action is required.

DYXP004I **Starting the command listener thread (thread *number*).**

Explanation: Server is starting a separate thread to handle commands. You can track this thread by its *number*.

User response: No action is required.

DYXP006I **The socket selector thread is terminating.**

Explanation: Indicates that the socket selector thread is finishing its work and will cease managing activity on the socket.

User response: No action is required.

DYXP007I **Received "stop" command: *commandtext*.**

Explanation: Indicates that the server has received a "stop" command. The full command text is specified in the variable *commandtext*.

User response: No action is required.

DYXP008I **Received "modify" command: *commandtext***

Explanation: Indicates that the server has received a "modify" command. The full command text is specified in the variable *commandtext*.

User response: No action is required.

DYXP009S **The *servername* server is terminating due to hard stop request.**

Explanation: The server has received a "force" command and will stop without waiting for queued events to be handled.

User response: No action is required.

DYXP010I **The *servername* server is terminating.**

Explanation: Indicates that the server *servername* will be stopped. Possible server names are Web or XML Socket Policy File.

User response: No action is required.

DYXP012I **Received shutdown request.**

Explanation: Indicates that the server has received a shutdown request while waiting to handle queued events.

User response: No action is required.

DYXP013I *Servename secured* **server listening on port *number* using the *protocolname* protocol.**

Explanation: Indicates that the specified server is listening on the specified port number using the specified protocol. The option *secured* if present indicates that SSL encryption has been used.

User response: No action is required.

DYXP017E **The maximum number of listen attempts has been reached.**

Explanation: The maximum number of listen attempts has been reached on the port specified in the server configuration.

User response: Set free port in the server configuration or stop already running server (that uses same port) before starting this one.

DYXP019E **Could not match *requested-uri-string* to existing routes.**

Explanation: The server could not match the *requested-uri-string* to existing routes. Client must use different routes to interact with the server.

User response: Use the actual version of the client to interact with the server. Contact your product administrator for additional information.

DYXP020E *controller-name* **is not registered as a valid controller name.**

Explanation: The client sent an unknown name for the RESTful controller. The route is only partially recognized.

User response: Use the actual version of the client to interact with the server. Contact your product administrator for additional information.

DYXP021E Requested HTTP Method has not been implemented.

Explanation: The client has sent a HTTP request that is not implemented on the server.

User response: Use the actual version of the client to interact with the server. Contact your product administrator for additional information.

DYXP023E Not authorized to access this resource.

Explanation: The use of the RESTful controller requires authorization that was not passed.

User response: Change authorization credentials and retry.

DYXP024E HTTP Method Override *method-name* is not supported for this request.

Explanation: Specified an unknown override method. An 'x-http-method-override' request header option can be specified as GET, PUT or DELETE.

User response: Avoid using this option. Contact IBM Software Support for additional information.

DYXP026E Request body is required and must be provided.

Explanation: The HTTP request body is missing and must be provided.

User response: Use the actual version of the client to interact with the server. Contact your product administrator for more information.

DYXP027E The configuration file *configuration-file-name* is invalid; the root element *element-name* is not <server-config>.

Explanation: The configuration file is invalid.

User response: Change the configuration root element to <server-config> or use a valid configuration file.

DYXP028E An error occurred while opening the configuration file *configuration-file-name* *error-text*.

Explanation: Opening the configuration file ended with the error that is specified in the variable *error-text*.

User response: Check that the configuration file exists and can be accessed. Contact your product administrator for additional information if necessary.

DYXP029S *Server-name* server is not configured.

Explanation: The configuration section for this server was not found in the configuration file.

User response: Add a configuration section to the server configuration file or contact your product administrator.

DYXP030E Unexpected symbols in URL: *string*

Explanation: This error can occur while accessing a help page.

System action: This error can occur while accessing a help page. The help page was not found.

User response: Use the actual version of the client to interact with the server. Contact your product administrator for more information.

DYXP031E Invalid parameters in URL.

Explanation: This error can occur while accessing a help page. The page was not found.

User response: Use the actual version of the client to interact with the server. Contact your product administrator for more information.

DYXP032I HTTP session *number* established.

Explanation: Indicates that the new HTTP session with the specified *number* has been established to the server.

User response: No action is required.

DYXP033I HTTP session *number* ended normally.

Explanation: Indicates that the HTTP server session with the specified *number* ended normally.

User response: No action is required.

DYXP034I HTTP session *number* upgraded to *protocol-name* protocol.

Explanation: Indicates that the HTTP server session with the specified *number* has been upgraded to the specified *protocol-name*.

User response: No action is required.

DYXP035I HTTP session *number* downgraded to HTTP 1.1 protocol.

Explanation: Indicates that the HTTP server session with specified *number* has been downgraded to HTTP 1.1 protocol.

User response: No action is required.

DYXP036E Websocket exception occurred: session number; status code = 'statuscode'.

Explanation: Indicates that the HTTP server session working on the websocket protocol has produced an exception with the specified status code while reading the data from the socket.

User response: Contact IBM Software Support if it occurs frequently or if it affects the ability to run the product successfully.

DYXP037I Sending websocket 'operation' frame to client with HTTP session number.

Explanation: The server is sending the specified websocket frame to the client.

User response: No action is required.

DYXP038I Received websocket 'operation' frame from client with HTTP session number.

Explanation: The server has received the specified websocket frame from the client.

User response: No action is required.

DYXP039E HTTP CORS disabled.

Explanation: Web Server not configured to process http cross-origin resource sharing request.

User response: Add <origins> XML element into server configuration file to activate CORS support. Example:

```
<web>
...
<origins>
  <domain>domain.com</domain>
  <domain>*</domain>
  ...
  <origin>*</origin>
  <origin>http://some.domain.com:80</origin>
  ...
</origins>
</web>
```

DYXP040E HTTP 'Origin' not allowed.

Explanation: HTTP request contains CORS (cross-origin resource sharing) information, but 'origin' is not in the list of allowed origins/domains.

User response: If 'origin' is in trusted zone, then add it into <origins> list of server configuration file; otherwise, no action is required.

DYXP041E Agent has not answered within number seconds.

Explanation: The agent has not answered to the server within the specified number of seconds. The result of

your action will not be shown. The default value is 600 seconds.

User response: Repeat your action, verify the result in another manner, or contact IBM Software Support.

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.

DYXS001I **Autonomics Director starting on *subsystem*. DYXADIR Build: *mm/dd/yy hh.mm***

Explanation: This message signifies the start of the Autonomics Director.

User response: No action is required.

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= *hhhh: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 = *hhhh: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 = *hhhh:mm:ss*

Explanation: This message displays the duration that is defined for the maintenance window.

User response: No action is required.

DYXS009I Window Overrun = *hhhh: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 = *hhhh:mm:ss*

Explanation: This message displays the end time of the maintenance window.

User response: No action is required.

DYXS011I 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.

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.

DYXS101W 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 = *hhhh: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 = *hhhh: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 Autonomics 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.

DYXS110W No open/active actions detected.

Explanation: A maintenance window opened, but no open or active actions are scheduled to run in the maintenance window.

User response: Check the workload of the maintenance window.

DYXS111I Tasks initiated = *number_of_tasks*

Explanation: This message display the number of tasks that were initiated.

User response: No action is required.

DYXS112E Internal error validating maintenance window.

Explanation: An internal error occurred when the Autonomics Director attempted to validate the maintenance window parameters.

User response: Contact IBM Software Support.

DYXS113I Highest return code = *return_code*

Explanation: This message is displayed at the end of a Autonomics Director stored procedure run in a given maintenance window. It displays the highest return code from the actions processed during this maintenance window.

User response: No action is required.

DYXS301I Subtask starting.

Explanation: This message indicates that a Db2 Autonomics Director subtask has been started.

User response: No action is required.

DYXS302I DYXADS1 Build: *mm/dd/yy hh.ss*

Explanation: This message displays the date and time that the Db2 Autonomics Director subtask started.

User response: No action is required.

DYXS303I Subtask connected to *ssid*.

Explanation: This message displays the Db2 subsystem ID that the Db2 Autonomics Director subtask is connected to.

User response: No action is required.

DYXS310I Calling RRSF Identify.

Explanation: This message indicates that the Db2 Autonomics Director subtask issued a call to the RRSF IDENTIFY function to initialize a connection to Db2.

User response: No action is required.

DYXS311I Calling RRSF Signon.

Explanation: This message indicates that the Db2 Autonomics Director subtask issued a call to the RRSF SIGNON function to establish authorization IDs for a connection.

User response: No action is required.

DYXS312I Calling RRSF Create Thread | Terminate Thread.

Explanation: This message indicates that the Db2 Autonomics Director subtask issued a call to the RRSF CREATE THREAD or TERMINATE THREAD function, to allocate or deallocate the Db2 resources that are required for an application to issue SQL requests.

User response: No action is required.

DYXS313I Calling RRSF Terminate Identify.

Explanation: This message indicates that the Db2 Autonomics Director subtask issued a call to the RRSF TERMINATE IDENTIFY function to terminate a connection to Db2.

User response: No action is required.

DYXS314I Processing action:

Explanation: This informational message indicates the start of an action being processed.

User response: No action is required.

DYXS315I Action start logged.

Explanation: This informational message indicates that the start of an action has been logged.

User response: No action is required.

DYXS340I Subtask ending.

Explanation: This message indicates that a Db2 Autonomics Director subtask has ended.

User response: No action is required.

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.

DYXS805I Maintenance window duration exceeded.

Explanation: This informational message indicates that the current maintenance window period has ended.

User response: No action is required.

DYXS806I Entering maintenance window overrun.

Explanation: This informational message indicates that the maintenance window period has ended and the window is now in the defined overrun period.

User response: No action is required.

DYXS807I No additional actions will be dispatched.

Explanation: This informational message indicates that the maintenance window period has ended and the window is now in the defined overrun period. If possible, actions that are currently running will complete during the overrun period. No additional actions will be initiated.

User response: No action is required.

DYXS808I Maintenance window overrun exceeded.

Explanation: This informational message indicates that the current maintenance window period overrun has been exceeded.

User response: No action is required.

DYXS809I Actions in progress will be terminated.

Explanation: This informational message indicates that the maintenance window period and the defined overrun period have both ended. Actions that are currently running will be terminated.

User response: No action is required.

| **DYXS810I Autonomics Director ended on *ssid*.**

| **Explanation:** This message indicates that Db2 Autonomics Director processing ended on the specified subsystem.

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

| **DYXS811I DYXADIR build: *mm/dd/yy hh:mm***

| **Explanation:** This message provides the timestamp for the start of Db2 Autonomics Director.

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

| **DYXS812I History ID = *history_ID***

| **Explanation:** This message provides the history ID of this run of Db2 Autonomics Director.

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

| **DYXS813I** **Actual end time = *timestamp***
 | **Explanation:** This message indicates the time that Db2 Autonomics Director ended.
 | **User response:** No action is required.

| **DYXS814I** **Calculated priority *priority* overridden by user priority *user_priority***
 | **Explanation:** The priority for this object or action was changed because the user-specified priority overrides the calculated priority.
 | **User response:** No action is required.

DYXS999E **SQL error RC = *return_code*, Reason = *reason_code***
Explanation: The Autonomics Director encountered an SQL error.
User response: Contact IBM Software Support

DYXT001E **The specified user ID *userid* is not defined or does not have an OMVS segment defined.**
Explanation: You specified a user ID that is not defined or does not have an OMVS segment defined.
User response: Db2 Autonomics Director was unable to authenticate the specified user. Either specify a valid user ID, or if the user ID is valid, see your security administrator to have an OMVS segment defined for the user ID.

DYXT002I **Canceled request with ID=*id* and type=*type*.**
Explanation: Db2 Autonomics Director canceled the request identified in the message.
User response: No action is required.

DYXT003E **Unable to cancel request with ID=*id* and type=*type*.**
Explanation: Db2 Autonomics Director was unable to cancel the request identified in the message.
User response: If you are trying to cancel a request that submitted an MVS job, the job name or ID was not known, and the job could not be canceled. Review the message log to determine the name and ID of the job that was submitted, and use native JES facilities to review the job's status and cancel it.
 If you are trying to cancel a different type of request, contact IBM Software Support.

DYXT004E **A cancel request was received for a non-existent request (ID=*id*).**
Explanation: You attempted to cancel a non-existent request.
User response: Contact IBM Software Support.

DYXT005I **Canceling request with ID=*id* and type=*type*.**
Explanation: Db2 Autonomics Director is canceling the request identified in the message.
User response: No action is required.

DYXT006S **The product is not properly configured to authenticate users.**
Explanation: Db2 Autonomics Director is not properly configured to authenticate users.
User response: An error occurred while authenticating a remote user request. The error code indicates that the installation configuration required to allow this authentication has not been completed. See the topic "Maintaining the Db2 Autonomics Director agent" for more information about how to complete the required configuration.

DYXT007I **Completed processing request with ID=*id* and type=*type*.**
Explanation: Db2 Autonomics Director completed processing the request identified in the message.
User response: No action is required.

DYXT008E **The configuration file *filename* is invalid; the root element *element* is not <agent-config>.**
Explanation: The configuration file identified in the message is invalid.
User response: The contents of the specified configuration file are invalid. Correct the file contents to specify <agent-config> as the root XML element.

DYXT009I **No server address was configured; listening for server advertisements.**
Explanation: No specific server address was configured, so the Db2 Autonomics Director client is listening for server advertisements.
User response: No action is required.

DYXT010E **An error occurred while opening the configuration file** *filename message text*

Explanation: An error occurred while opening the configuration file identified in the message. Additional error information is also contained within the message.

User response: Use the specified message text to diagnose the error that occurred. Specify a valid configuration file which is not in use by any other process.

DYXT011E **The maximum number of connection attempts has been reached.**

Explanation: Db2 Autonomics Director has repeatedly attempted to connect to the server and the maximum number of connection attempts has been reached.

User response: The agent is not able to connect to the server specified in the configuration file. Review the configuration file to ensure that the correct server host name (or IP address) is specified by the <server-address> configuration parameter. Ensure that the server has been started and is properly running. Ensure that the <server-port> value in the agent configuration file matches the <agent-listener-port> value in the server configuration file.

DYXT012I **Performing discovery of available locations.**

Explanation: The Db2 Autonomics Director agent is looking for available locations.

User response: No action is required.

DYXT013I **IBM Autonomics Director for Db2 agent is terminating.**

Explanation: The Db2 Autonomics Director agent is terminating.

User response: No action is required.

DYXT014I **Connected to server** *hostname on port port number.*

Explanation: The Db2 Autonomics Director agent has connected to the identified server and port number.

User response: No action is required.

DYXT015I **Attempting connection to server** *hostname on port port number.*

Explanation: The Db2 Autonomics Director agent is attempting to connect to the identified server and port number.

User response: No action is required.

DYXT016I **Discovered data sharing group** *group name.*

Explanation: The Db2 Autonomics Director agent has discovered the identified data sharing group.

User response: No action is required.

DYXT017I **Discovered subsystem** *subsystem-id.*

Explanation: The Db2 Autonomics Director agent has discovered the identified subsystem.

User response: No action is required.

DYXT019I **IBM Autonomics Director for Db2 agent started.**

Explanation: Db2 Autonomics Director agent started.

User response: No action is required.

DYXT020I **Starting the socket selector thread** *(thread thread id)*

Explanation: The Db2 Autonomics Director agent is starting the identified socket selector thread.

User response: No action is required.

DYXT021I **Processing request with ID=id and type=type.**

Explanation: The Db2 Autonomics Director agent is processing a request with the identified ID and type.

User response: No action is required.

DYXT022I **Reading request with ID=id and type=type.**

Explanation: The Db2 Autonomics Director agent is reading a request with the identified ID and type.

User response: No action is required.

DYXT023I **Received shutdown request.**

Explanation: The Db2 Autonomics Director agent has received a shutdown request.

User response: No action is required.

DYXT024I **Request thread timed out waiting for work.**

Explanation: The Db2 Autonomics Director agent request thread has timed out waiting for work.

User response: No action is required.

DYXT025I The socket selector thread is terminating.

Explanation: The Db2 Autonomics Director agent socket selector thread is terminating.

User response: No action is required.

DYXT026E Location *location name* is not known to the agent.

Explanation: The location name specified on a received request does not match any Db2 subsystem ID or data sharing group attachment name known to the agent.

User response: Ensure that a valid location is specified in the client. If a valid location is specified, ensure that the Db2 subsystem is operational.

DYXT027S An invalid request type "*request-id*" was received.

Explanation: The Db2 Autonomics Director agent received an invalid request type.

User response: Contact IBM Software Support.

DYXT028E An error occurred while authenticating user *user-id*. *reason-text*
(*errno*=*error-number1*,*errno2*=*error-number2*)

Explanation: An unexpected return code was returned by the pthread_security_np() callable service.

User response: Ensure that the configuration required to use this service has been completed. See the topic "Maintaining the Db2 Autonomics Director agent" for more information about the required configuration. Check the agent job log for additional messages which may be generated.

DYXT029E Location *location name* has not been configured for use with IBM Autonomics Director for Db2.

Explanation: The specified location name is recognized by the agent, but an error occurred while accessing the product control file for the location's configuration information.

User response: The control file must be corrected. Contact your product administrator for more information.

DYXT031I Starting the command listener thread (thread *thread-id*).

Explanation: The Db2 Autonomics Director agent is starting the command listener thread.

User response: No action is required.

DYXT032I Received "stop" command: *command-text*.

Explanation: The Db2 Autonomics Director agent received a STOP command.

User response: No action is required.

DYXT033I Received "modify" command: *command-text*.

Explanation: The Db2 Autonomics Director agent received a MODIFY command.

User response: No action is required.

DYXT034S IBM Autonomics Director for Db2 agent is terminating due to hard stop request.

Explanation: Db2 Autonomics Director agent is terminating due to a user /MODIFY FORCE command.

User response: No action is required.

DYXT037I Associating with advertised server *server name* (*description*="*description*")

Explanation: Db2 Autonomics Director is associating with the identified server.

User response: No action is required.

DYXT038W An XML error occurred while parsing a server advertisement.

Explanation: An XML error occurred while parsing a server advertisement.

User response: Contact IBM Software Support.

DYXT039W The request was canceled.

Explanation: The request was canceled due to a user or administrator request.

User response: No action is required.

DYXT041I Authenticating user *user-id*.

Explanation: Db2 Autonomics Director is authenticating the identified user.

User response: No action is required.

DYXT044E The connection to the server has been lost.

Explanation: The agent has detected that the network connection to the server has been terminated. This could be due to shutdown of the server by the administrator, a problem in the server, or a network problem. All work that the agent was performing at the time of the lost connection was canceled.

User response: If the server shutdown was

unexpected, see the server job output to diagnose why the job ended. The agent will attempt to reconnect to the server, up to the limit specified by the <server connect retry max> configuration parameter.

DYXT045E **Location SSID has not been configured properly for use with IBM Autonomics Director for Db2.**

Explanation: SSID is found in the control file but it is not configured correctly.

User response: Remove the current SSID from the control file and then add it back with the correct configuration information.

DYXT049E **This product is not properly configured to authenticate using passtickets.**

Explanation: User interface is attempting to use passticket strategy for authentication but the product was not configured properly.

User response: Contact your product administrator.

DYXT050E **A MVS internal error or environmental occurred while attempting to access resource *resource-name* (errno=error-number1,errno2=error-number2).**

Explanation: Specified error occurs while attempting to use passticket strategy for authentication. Additional diagnostic information is provided by the error code explanation.

User response: Contact your product administrator.

DYXT051E **Unexpected error occurred in the security product while attempting to access resource *resource-name* (errno=error-number1,errno2=error-number2)**

Explanation: The specified error occurs while attempting to use passticket strategy for authentication. Additional diagnostic information is provided by the error code explanation.

User response: Contact your product administrator.

DYXT052E **System is unable to verify access to the resource *resource-name* (errno=error-number1,errno2=error-number2)**

Explanation: The specified error occurs while attempting to use passticket strategy for authentication. Additional diagnostic information is provided by the *rc/rsn* code explanation.

User response: Contact your product administrator.

DYXT053E **This product is not configured properly to access the resource PTKTDATA.*passticket-app-id*. (errno=error-number1,errno2=error-number2)**

Explanation: The Db2 Autonomics Director agent issued this message because it is unable to access the named resource. The resource name *passticket-app-id* is controlled by *passticket-app-id* in the agent configuration file.

User response: Contact your product administrator.

DYXT054E **No interfaces are enabled for multicasting.**

Explanation: Agent was not able to join any multicast group in order to listen for server announcements.

User response: Check if multicast configuration was set up properly. If you did not edit the configuration file, contact your product administrator.

DYXT055I **Attempting to enumerate network interfaces.**

Explanation: Agent is attempting to enumerate network interfaces to listen for server announcements.

User response: No action is required.

DYXT056I **Discovered interface *stack@name* with IP address *ip-address* (index=number).**

Explanation: Agent discovered specified network interface which will be used to listen for server announcements.

User response: No action is required.

DYXT057I **Multicast group *multicastaddress* was joined successfully.**

Explanation: Agent joined successfully to the specified multicast group to listen for server announcements.

User response: No action is required.

DYXT058I **Attempting to join multicast group *multicastaddress* at default interface.**

Explanation: Agent is attempting to join the multicast group at the default network interface since enumerating network interfaces is disabled.

User response: No action is required.

DYXT059I (interface-stack@interface-name address index-number) **Attempting to join multicast group** 'multicast-address'.

Explanation: Agent is joining multicast group at the specified network interface.

User response: No action is required.

DYXU001I **DYXAEINI Build:** mm/dd/yy hh.ss

Explanation: This message displays the date and time that the Db2 Autonomics Director stored procedure started.

User response: No action is required.

DYXU002I **Procname =**

Explanation: This informational message displays the name of the Db2 Autonomics Director stored procedure.

User response: No action is required.

DYXU003I **Evaluation ID =**

Explanation: This informational message displays the name of the Db2 Autonomics Director evaluator.

User response: No action is required.

DYXU004I **Previous History ID =**

Explanation: This informational message displays the previous history ID of the last autonomic build for this job profile.

User response: No action is required.

DYXU005I **No Previous History ID found.**

Explanation: This message indicates that this is the first execution of an autonomic build for this job profile.

User response: No action is required.

DYXU006I **History ID =**

Explanation: This informational message displays the history ID that is assigned to the autonomic build (evaluation) for this job profile.

User response: No action is required.

DYXV001I **DYXAEIA Build:** mm/dd/yy hh.ss xxx

Explanation: This message displays the date and time that the Db2 Autonomics Director stored procedure started.

User response: No action is required.

DYXV002E **Invalid Maintenance Window Name:**

Explanation: An invalid maintenance window name was found. The maintenance window may be been renamed or deleted.

User response: Correct the maintenance window and rebuild the job profile.

DYXV003E **ACTION not found.**

Explanation: The action was not found in the action priority table.

User response: Add the action to the action priority table and rebuild the job profile.

DYXV004E **SYMPTOM not found.**

Explanation: The symptom was not found in the symptom priority table.

User response: Add the symptom to the symptom priority table and rebuild the job profile.

DYXV005I **Inserted | Updated Action ID =**

Explanation: This message displays the action ID and whether the action ID was updated or inserted.

User response: No action is required.

DYXV013I **Listening on port** port-number.

Explanation: Identifies the port number that the server is listening to.

User response: No action is required.

DYXV015I **Session** session-id **ended normally.**

Explanation: The session that is identified in the message ended normally.

User response: No action is required.

DYXV016I **Session** session-id **established.**

Explanation: The session that is identified in the message has been established.

User response: No action is required.

DYXV017E **The maximum number of listen attempts has been reached.**

Explanation: The server cannot open the client or agent port in order to listen for incoming requests.

User response: Ensure that the desired ports are specified in the server configuration file. Ensure that the specified ports are not in use by any other application.

DYXV018E Session *session-id* has ended abnormally.

Explanation: The session that is identified in the message has ended abnormally.

User response: Contact IBM Software Support.

DYXV019E Invalid data received from client.
'*address*' (header-in-hex)

Explanation: This error can occur if an incorrect port has been specified in the agent/server configuration or a client is attempting to connect at an incorrect port.

User response: Check the port configuration in all the configuration files and verify that the client is connecting at either the client-listener-port and/or the HTTP port (depending on the type of client being used).

DYXW001I DYXAEIS Build: *mm/dd/yy hh.ss xxx*

Explanation: This message displays the date and time that the Db2 Autonomics Director stored procedure started.

User response: No action is required.

DYXW002E Symptom Key not found in registry.

Explanation: The symptom key was not found in the symptom registry. Db2 Autonomics Director cannot insert an action without a valid symptom key.

User response: Add the symptom to the symptom registry table.

DYXW003E Variance not numeric.

Explanation: This is an internal error. The variance (the difference between the threshold and the actual value of the symptom) is not numeric.

User response: Contact IBM Software Support.

DYXX001I DYXAETRM Build: *mm/dd/yy hh.ss*

Explanation: This message displays the date and time that the Db2 Autonomics Director stored procedure started.

User response: No action is required.

DYXX002I Actions | Symptoms Deleted =
number_deleted

Explanation: This message displays the number of actions or symptoms that were deleted.

User response: No action is required.

DYXX014E An XML schema violation was detected; value *value* is not a valid boolean value.

Explanation: An XML schema violation was detected and the value that is identified in the message is not a valid boolean value.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX015E An XML schema violation was detected; value *value* is not a valid double value.

Explanation: An XML schema violation was detected and the value that is identified in the message is not a valid double value.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX016E An XML schema violation was detected; value *value* is not a valid integer value.

Explanation: An XML schema violation was detected and the value that is identified in the message is not a valid integer value.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX017E An XML syntax error was detected at offset *offset*; expected *expected-value*, found *found-value*.

Explanation: An XML syntax error was detected at the offset that is identified in the message. The expected value and found value are also identified in the message.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX018E An XML schema violation was detected; required element *element* attribute *attribute* is not present.

Explanation: An XML schema violation was detected. The required element that is identified in the message is not present.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX019E An XML schema violation was detected; required element *element child child-element* is not present.

Explanation: An XML schema violation was detected. The required element that is identified in the message is not present.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX020E Memory allocation failed (*number* bytes).

Explanation: A memory allocation has failed.

User response: Contact IBM Software Support.

DYXX021E An XML schema violation was detected; element *element child child-number* has wrong type.

Explanation: An XML schema violation was detected. The element that is identified in the message has the wrong type.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX022E An XML syntax error was detected; character reference *character-reference* is invalid.

Explanation: An XML syntax error was detected. The character reference that is identified in the message is invalid.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX023E An XML syntax error was detected; entity reference *entity-reference* is invalid.

Explanation: An XML syntax error was detected. The entity reference that is identified in the message is invalid.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX024E An XML syntax error was detected; more than one element was found at the root of the document.

Explanation: An XML syntax error was detected; more than one element was found at the root of the document.

User response: If the error occurred while reading the agent or server configuration file, correct the file

contents. Otherwise, contact IBM Software Support.

DYXX025E An XML syntax error was detected; no element was found at the root of the document.

Explanation: An XML syntax error was detected; no element was found at the root of the document.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX026E An XML syntax error was detected; text was found at the root of the document.

Explanation: An XML syntax error was detected; text was found at the root of the document.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX027E A severe error occurred during XML parsing; an unknown exception occurred.

Explanation: A severe error occurred during XML parsing; an unknown exception occurred.

User response: Contact IBM Software Support.

DYXX028E The command line option *option* is invalid.

Explanation: The command line option that is identified in the message is invalid.

User response: Correct the command line option and retry the operation. See the client/server environment information in the Chapter 6, "Administering client, server, and agent communications for Db2 Autonomics Director," on page 55 topic for valid options.

DYXX029E The command line option *option value* is invalid.

Explanation: The command line option that is identified in the message is invalid.

User response: Correct the command line option and retry the operation. See the client/server environment information in the Chapter 6, "Administering client, server, and agent communications for Db2 Autonomics Director," on page 55 topic for valid options.

DYXX030E The required command line option *option* was not specified.

Explanation: The required command line option that is identified in the message was not specified.

User response: Correct the command line option and

retry the operation. See the client/server environment information in the Chapter 6, “Administering client, server, and agent communications for Db2 Autonomics Director,” on page 55 topic for valid options.

DYXX031E A value is required for the command line option *option*.

Explanation: You did not enter a value for the command line option that is identified in the message.

User response: Specify a value for the command line option and retry the operation. See the client/server environment information in the Chapter 6, “Administering client, server, and agent communications for Db2 Autonomics Director,” on page 55 topic for valid options.

DYXX032E Too many values were specified for the command line option *option*.

Explanation: You entered too many values for the command line option that is identified in the message.

User response: Specify only one value for the command line option and retry the operation. See the client/server environment information in the Chapter 6, “Administering client, server, and agent communications for Db2 Autonomics Director,” on page 55 topic for valid options.

DYXX033E The command line option *option* does not accept any values.

Explanation: You entered a value for the command line option that is identified in the message.

User response: Correct the command line option and retry the operation. See the client/server environment information in the Chapter 6, “Administering client, server, and agent communications for Db2 Autonomics Director,” on page 55 topic for valid options.

DYXX034S A severe error occurred during command line processing; an unknown exception occurred.

Explanation: A severe error occurred during command line processing; an unknown exception occurred.

User response: Contact IBM Software Support.

DYXX035E The operation completed successfully.

Explanation: The operation completed successfully.

User response: No action is required.

DYXX036E The address family is not supported by the protocol family (*socket-return-code*).

Explanation: The address family is not supported by the protocol family.

User response: Contact IBM Software Support.

DYXX037E The operation is still in progress (*socket-return-code*).

Explanation: The operation that is identified in the message is still in progress.

User response: Contact IBM Software Support.

DYXX038E Permission is denied (*socket-return-code*).

Explanation: Permission is denied.

User response: Contact IBM Software Support.

DYXX039E The network is down (*socket-return-code*).

Explanation: The network is down.

User response: Contact IBM Software Support.

DYXX040E No buffer space is available (*socket-return-code*).

Explanation: No buffer space is available.

User response: Contact IBM Software Support.

DYXX041E Too many sockets have been opened (*socket-return-code*).

Explanation: Too many sockets have been opened.

User response: Contact IBM Software Support.

DYXX042E The protocol is not supported (*socket-return-code*).

Explanation: The protocol is not supported.

User response: Contact IBM Software Support.

DYXX043E The WSStartup routine was not called (*socket-return-code*).

Explanation: The WSStartup routine was not called.

User response: Contact IBM Software Support.

DYXX044E The protocol is the wrong type for the socket (*socket-return-code*).

Explanation: The protocol is the wrong type for the socket.

User response: Contact IBM Software Support.

DYXX045E **The socket type is not supported**
(*socket-return-code*).

Explanation: The socket type is not supported.

User response: Contact IBM Software Support.

DYXX046E **The destination network is unreachable**
(*socket-return-code*).

Explanation: The destination network is unreachable.

User response: Ensure that the correct host name or IP address was specified.

DYXX047E **The socket handle is invalid**
(*socket-return-code*).

Explanation: The socket handle is invalid.

User response: Contact IBM Software Support.

DYXX048E **The address is already in use**
(*socket-return-code*).

Explanation: The address is already in use.

User response: Contact IBM Software Support.

DYXX049E **The function call was interrupted**
(*socket-return-code*).

Explanation: The function call was interrupted.

User response: Contact IBM Software Support.

DYXX050E **The requested address is not available**
(*socket-return-code*).

Explanation: The requested address is not available.

User response: Contact IBM Software Support.

DYXX051E **The connection was aborted**
(*socket-return-code*).

Explanation: The connection was aborted.

User response: Contact IBM Software Support.

DYXX052E **The connection was refused by the partner** (*socket-return-code*).

Explanation: The connection was refused by the partner.

User response: Ensure that the correct port number was specified, and that the partner application has been started and is available.

DYXX053E **The connection was reset by the partner**
(*socket-return-code*).

Explanation: The partner application terminated the network connection.

User response: If this is unexpected, diagnose the other application's failure. Otherwise, no action is required.

DYXX054E **The network message is too long**
(*socket-return-code*).

Explanation: The network message is too long.

User response: Contact IBM Software Support.

DYXX055E **The network dropped the connection when reset** (*socket-return-code*).

Explanation: The network dropped the connection when reset.

User response: Contact IBM Software Support.

DYXX056E **An invalid parameter was specified**
(*socket-return-code*).

Explanation: An invalid parameter was specified.

User response: Contact IBM Software Support.

DYXX057E **The socket is not connected**
(*socket-return-code*).

Explanation: The socket is not connected.

User response: Contact IBM Software Support.

DYXX058E **The operation is not supported**
(*socket-return-code*).

Explanation: The operation is not supported.

User response: Contact IBM Software Support.

DYXX059E **The socket has been closed**
(*socket-return-code*).

Explanation: The socket has been closed.

User response: Contact IBM Software Support.

DYXX060E **The socket is already connected**
(*socket-return-code*).

Explanation: The socket is already connected.

User response: Contact IBM Software Support.

DYXX061S **An unknown error occurred**
(*socket-return-code*).

Explanation: An unknown error occurred.

User response: Contact IBM Software Support.

DYXX062E **A socket error occurred on**
socket-operation: message-text

Explanation: A socket error occurred on the operation that is identified in the message.

User response: Use the specified message text to diagnose the error.

DYXX063E **A socket select error occurred:**
message-text

Explanation: A socket select error occurred. Additional message text is also displayed.

User response: Use the specified message text to diagnose the error.

DYXX064E **An XML schema violation was detected;**
expected root element *element-expected*,
but found *element-found* **instead.**

Explanation: An XML schema violation was detected.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX066E **An XML schema violation was detected;**
element *element* **value** *value* **is invalid.**

Explanation: An XML schema violation was detected. The element that is identified in the message is invalid.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX067E **An XML schema violation was detected;**
element name *element* **is invalid.**

Explanation: An XML schema violation was detected. The element name that is identified in the message is invalid.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX068E **An XML schema violation was detected;**
element name *element-found* **is invalid**
(**expected** *element-expected*).

Explanation: An XML schema violation was detected. The element name that is identified in the message is invalid.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX071E **An error occurred while invoking the**
subsystem interface (RC =*return-code***).**

Explanation: The specified return code was returned by the MVS subsystem interface when trying to query job status or results.

User response: See *MVS Using the Subsystem Interface* for more information about the return code.

DYXX072E **An error occurred while invoking the**
SYSOUT API (SSOBRETN = *return-code***,**
SSS2REAS = *reason-code***).**

Explanation: The specified return code was returned by the MVS subsystem interface when trying to query job status or results.

User response: See *MVS Using the Subsystem Interface* for more information about the return code.

DYXX074E **An abend occurred:** *abendcode*

Explanation: This message indicates that a system and/or a user abend has occurred. Additional diagnostic information may be present in the message when applicable.

User response: Contact IBM Software Support.

DYXX075E **An abend occurred:** *system-code/user-code*

Explanation: This message indicates that a system and/or a user abend has occurred. Additional diagnostic information may be present in the message when applicable.

User response: Contact IBM Software Support.

DYXX076E **An XML schema violation was detected;**
element *element* **attribute** *attribute* **value**
value **is invalid.**

Explanation: An XML schema violation was detected. The element that is identified in the message is invalid.

User response: If the error occurred while reading the agent or server configuration file, correct the file contents. Otherwise, contact IBM Software Support.

DYXX077E **A Db2 attachment facility error**
occurred: function = *function-code***, RC =**
*return-code***, reason =** *reason-code***.**

Explanation: A Db2 attachment facility error occurred.

User response: An error occurred while performing a Db2 attachment function. See *Db2 Messages and Codes*

for more information about the return and reason codes.

DYXX078E **An error occurred while opening the Db2 load libraries: RC = *return-code*.**

Explanation: An error occurred while opening the Db2 load libraries.

User response: Ensure that the correct list of load libraries for the Db2 subsystem is configured in the product control file, using sample job ARYSJ001. See *DFSMS Macro Instructions For Data Sets* for more information about the return code.

DYXX079E **An error occurred while attaching the Db2 attachment facility subtask: RC = *return-code*.**

Explanation: An error occurred while attaching the Db2 attachment facility subtask.

User response: Contact IBM Software Support.

DYXX080S **The Db2 attachment facility subtask ended unexpectedly: RC = *return-code*.**

Explanation: The Db2 attachment facility subtask ended unexpectedly.

User response: Contact IBM Software Support.

DYXX081E **An SQL error occurred: SQL code = *sql-code*, SQL state = *sql-state***

Explanation: An SQL error occurred.

User response: See *Db2 Messages and Codes* for more information about the SQL code and SQL state values.

DYXX082E **The input Db2 command is too long.**

Explanation: The input Db2 command is too long.

User response: Contact IBM Software Support.

DYXX083E **An error occurred while making an IFI function-code call: IFCARC1 = *return-code*, IFACRC2 = *reason-code*.**

Explanation: An error occurred while making an IFI call.

User response: See *Db2 Messages and Codes* for more information about the SQL code and SQL state values.

DYXX084E **Insufficient data was returned from an IFI call.**

Explanation: Insufficient data was returned from an IFI call.

User response: Contact IBM Software Support.

DYXX085E **A dynamic allocation error occurred: info code = *info-code*, error code = *error-code*.**

Explanation: A dynamic allocation error occurred.

User response: See *MVS Programming: Authorized Assembler Services Guide* for more information about the specified info and error codes.

DYXX086E **A dynamic concatenation error occurred: info code = *info-code*, error code = *error-code*.**

Explanation: A dynamic concatenation error occurred.

User response: See *MVS Programming: Authorized Assembler Services Guide* for more information about the specified info and error codes.

DYXX087E **A dynamic free error occurred: info code = *info-code*, error code = *error-code*.**

Explanation: A dynamic free error occurred.

User response: See *MVS Programming: Authorized Assembler Services Guide* for more information about the specified info and error codes.

DYXX088E **An invalid dynamic allocation parameter was specified: code = *parm-code*.**

Explanation: An invalid dynamic allocation parameter was specified.

User response: Contact IBM Software Support.

DYXX089E **The specified user ID *user-id* and password are invalid.**

Explanation: You entered a user ID and password that are invalid.

User response: Correct the user ID and password and retry the operation.

DYXX090E **The specified password for user ID *user-id* has expired.**

Explanation: The specified password for the user ID that is identified in the message has expired.

User response: Use native facilities to change your password, then retry the operation.

DYXX091E **Access for the specified user ID *user-id* has been revoked.**

Explanation: Access for the specified user ID that is identified in the message has been revoked.

User response: See your security administrator to get your user ID reinstated.

DYXX092E **An error occurred while performing authentication: SAF RC = saf-return-code, RC = return-code, RSN = reason-code.**

Explanation: An error occurred while performing authentication.

User response: Contact IBM Software Support.

DYXX093S **An unexpected error occurred (file-name, line-number).**

Explanation: An unexpected error occurred.

User response: Contact IBM Software Support.

DYXX094S **An unexpected error occurred with token token, (file-name,).**

Explanation: An unexpected error occurred.

User response: Contact IBM Software Support.

DYXX095S **An unexpected error occurred with tokens token and token (file-name, line-number).**

Explanation: An unexpected error occurred.

User response: Contact IBM Software Support.

DYXX096S **An unexpected error occurred with tokens token, token and token (file-name, line-number).**

Explanation: An unexpected error occurred.

User response: Contact IBM Software Support.

DYXX097S **An unexpected error occurred with tokens token, token, token, and token (file-name, line-number).**

Explanation: An unexpected error occurred.

User response: Contact IBM Software Support.

DYXX098E **A thread error occurred on thread-operation: message-text**

Explanation: A thread error occurred.

User response: Contact IBM Software Support.

DYXX101E **An event error occurred on event-operation: message-text**

Explanation: An event error occurred.

User response: Use the specified message text to diagnose the error.

DYXX104E **A mutex error occurred on mutex-operation: message-text**

Explanation: A mutex error occurred.

User response: Use the specified message text to diagnose the error.

DYXX109E **A semaphore error occurred on semaphore-operation: message-text**

Explanation: A semaphore error occurred.

User response: Use the specified message text to diagnose the error.

DYXX110I **The network connection has been disconnected.**

Explanation: The network connection has been disconnected.

User response: No action is required.

DYXX111E **An SQL error occurred with SQL code = sql-code and SQL state = sql-state. SQL message text follows: message-text**

Explanation: An SQL error occurred and SQL message text is displayed.

User response: See *Db2 Messages and Codes* for more information about the SQL code and SQL state values.

DYXX112E **An SQL error occurred with SQL code = sql-code and SQL state = sql-state.**

Explanation: An SQL error occurred.

User response: See *Db2 Messages and Codes* for more information about the SQL code and SQL state values.

DYXX113E **An SQL error occurred with SQL code = sql-code and SQL state = sql-state.**

Explanation: An SQL error occurred.

User response: See *Db2 Messages and Codes* for more information about the SQL code and SQL state values.

DYXX114E **A dynamic allocation query error occurred: info code = info-code, error code = error-code.**

Explanation: A dynamic allocation query error occurred.

User response: See *MVS Programming: Authorized Assembler Services Guide* for more information about the specified info and error codes.

DYXX115E **An input command error occurred on**
command-operation: message-text

Explanation: An input command error occurred.

User response: Contact IBM Software Support.

DYXX116I **Received input command:** *command*.

Explanation: Received input command.

User response: No action is required.

DYXX117E **Excessive data was encountered in the**
ASN.1 data stream.

Explanation: Excessive data was encountered in the ASN.1 data stream.

User response: Contact IBM Software Support.

DYXX118E **Insufficient data was encountered in the**
ASN.1 data stream.

Explanation: Insufficient data was encountered in the ASN.1 data stream.

User response: Contact IBM Software Support.

DYXX119E **An unsupported ASN.1 feature was**
encountered.

Explanation: An unsupported ASN.1 feature was encountered.

User response: Contact IBM Software Support.

DYXX120E **Invalid DES-encrypted data was**
encountered.

Explanation: Invalid DES-encrypted data was encountered.

User response: Contact IBM Software Support.

DYXX121E **Invalid DES-encrypted data was**
encountered (pad = pad-value).

Explanation: Invalid DES-encrypted data was encountered.

User response: Contact IBM Software Support.

DYXX122I **Build date** *component = date*.

Explanation: Identifies the build date of the component that is identified in the message.

User response: No action is required.

DYXX123W **The action was canceled.**

Explanation: The operation was canceled due to user or administrator request.

User response: No action is required.

DYXX124E **The task is not running APF-authorized.**

Explanation: The task is not running APF-authorized. The Db2 Recovery Expert load library, and the load libraries for all of the Db2 subsystems accessed, must be APF-authorized.

User response: See *Db2 Autonomics Director User Guide* for more information about the agent and the required configuration steps.

DYXX125E **An error occurred while retrieving**
product configuration data: RC =
return-code.

Explanation: An error occurred while retrieving product configuration data.

User response: Ensure that a product control file has been created and loaded using sample jobs ARYSJ000 and ARYSJ001, and that it is allocated to the DB2PARMS DD.

DYXX126E **A DLL error occurred on** *dll-operation:*
message-text

Explanation: A DLL error occurred on the operation that is identified in the message.

User response: Contact IBM Software Support.

DYXX127S **An error occurred while opening log file**
file-name.

Explanation: An error occurred while opening the log file that is identified in the message.

User response: Contact IBM Software Support.

DYXX128E **An error occurred while submitting the**
job: RC = return-code.

Explanation: An error occurred while submitting the job.

User response: Contact IBM Software Support.

DYXX129I **Job** *job-id* **was submitted.**

Explanation: The job that is identified in the message was submitted.

User response: No action is required.

DYXX130E **An ICSF cryptographic error occurred:**
 API = *apiname*, RC = *returncode*,
 REASON = *reason*.

Explanation: The Integrated Cryptographic Service Facility fails on *apiname*. For additional diagnostic information see the return code and reason as explained in the message text.

User response: Contact your product administrator.

DYXX133I **Location:** LINE = *<line number>*, COL =
<column-number>, **system_id** =
<system-id>

Explanation: This message provides additional information about the XML schema violation. It shows *<line number>*, *<column-number>*, and *<system-id>* where the error has occurred.

User response: Use the specified message text to correct invalid XML if this is available or contact support.

DYXX136W **ICSF cryptographic services are not available.**

Explanation: The warning specifies that the Integrated Cryptographic Service Facility is not available.

User response: No action is required since native encryption methods will be used instead of ICSF.

DYXX137W **The specified resource *resourcename* is not protected by RACF.**

Explanation: The warning specifies the profile *resourcename* that is used for authentication is not protected by RACF.

User response: Contact your product administrator.

DYXX138E **The user *userid* is not authorized to access the resource *resourcename*.**

Explanation: An error occurs because the specified user is not authorized to access the resource *resourcename*.

User response: Contact your product administrator.

DYXX139E **An error occurred while authorizing user *userid*: SAF RC = *saf-rc*, RC = *returncode*, RSN = *reason*.**

Explanation: An error occurs while authorizing user. For additional diagnostic information see the recode code and reason explanation.

User response: Contact your product administrator.

DYXX140E **An error occurred while opening the configuration file *filename* message-text.**

Explanation: An error occurred while opening the configuration file identified in the message. Additional error information is also contained within the message.

User response: Use the specified message text to diagnose the error that occurred. Specify a valid configuration file that is not in use by any other process.

DYXX141E **A SSL error occurred on socket-operation: *message-text*.**

Explanation: A SSL socket error occurred on the operation that is identified in the message.

User response: Use the specified message text to diagnose the error that occurred.

DYXX158E **Catalog Search Interface: Invalid mask = *mask***

Explanation: An invalid filter key was provided to the Catalog Search Interface. This may indicate an invalid data set name in the catalog that is being searched.

User response: Fix filter key and try again.

DYXX159E **Unable to load *module*.**

Explanation: Indicates that the Catalog Search Interface program can not load the specified module *module*.

User response: Check that the program is installed properly.

DYXX160E **A dynamic allocation query error occurred: info code = *info-code*, error code = *error-code*, DD name = *dd-name*.**

Explanation: A dynamic allocation query error occurred with the specified information code, error code, and DD name.

User response: See the *MVS Programming: Authorized Assembler Services Guide* for more information about the specified information and error codes.

DYXX161I **SSL connection closed (RC = *return-code*): *message-text*)**

Explanation: Indicates that the SSL connection has been closed.

User response: No action is required. Use the specified message text to diagnose the reason.

DYXX162W [SSL] *key-database-directory* can be read by any user in the same group as the owner.

Explanation: This message warns that the key database directory can be read by any user in the same group as the owner.

User response: No action is required. You can change directory permissions to be more secure if it is necessary.

DYXX163W [SSL] *key-database-directory* can be read by any user.

Explanation: This message warns that the key database directory can be read by anyone.

User response: No action is required. You can change directory permissions to be more secure if it is necessary.

DYXX165W [SSL] *key-database-directory* can be modified by any user.

Explanation: This message warns that the key database directory can be modified by any user.

User response: No action is required. Change directory permissions to be more secure if it is necessary.

DYXX166W [SSL] *key-database-directory* is not owned by *user-name*.

Explanation: This message warns that the key database directory is not owned by the current user.

User response: No action is required. Change directory permissions to be more secure if it is necessary.

DYXX167E JSON syntax error: *offset = offset; symbol=symbol; data frame=frame*.

Explanation: A JSON syntax error was detected at the specified position.

User response: Contact IBM Software Support.

DYXX168I ICSF cryptographic services are available.

Explanation: Indicates that ICSF (cryptographic services) are available.

User response: No action is required.

DYXX173E JSON Parser Error: unexpected EOF.

Explanation: A JSON parsing error was detected.

User response: Contact IBM Software Support.

DYXX174E JSON Parser Error: file error.

Explanation: A JSON parsing error was detected.

User response: Contact IBM Software Support.

DYXX175E JSON Parser Error: unsupported encoding or data error.

Explanation: A JSON parsing error was detected.

User response: Contact IBM Software Support.

DYXX176S A severe error occurred during JSON parsing; an unknown exception occurred.

Explanation: A JSON parsing error was detected.

User response: Contact IBM Software Support.

DYXX177E A JSON violation was detected; value *value* is not a valid float value

Explanation: A JSON schema violation was detected and the value that is identified in the message is not a valid float value.

User response: Contact IBM Software Support.

DYXX178E A JSON violation was detected; value *value* is not a valid integer value.

Explanation: A JSON schema violation was detected and the value that is identified in the message is not a valid integer value.

User response: Contact IBM Software Support.

DYXX179E A JSON violation was detected; object does not contain value with key *key*.

Explanation: A JSON schema violation was detected. The required JSON object value that is identified by the key is not present.

User response: Contact IBM Software Support.

DYXX180E A JSON violation was detected; array does not contain value with index *index*.

Explanation: A JSON schema violation was detected. The required JSON array value that is identified by the index is not present

User response: Contact IBM Software Support.

DYXX181E A JSON violation was detected;
unsupported operation

Explanation: A JSON violation was detected;
unsupported operation.

User response: Contact IBM Software Support.

DYXX183E The number of file descriptors (sockets)
has exceeded maximum = *number*

Explanation: The active program holds too many file
or socket descriptors and exceeded system maximum
number.

User response: Contact your system administrator or
IBM Software Support.

DYXX184E [SSL] User *user-name* does not have the
necessary permissions to read the key
database *database-name*.

Explanation: User *user-name* does not have the
necessary permissions to read the specified key
database *database-name*.

User response: Check the necessary permissions for
the key database file. The file must be readable by the
user or group that is attempting to access it.

DYXY001S The agent at *host-address* has
unexpectedly disconnected.

Explanation: The agent at the host-address that is
identified in the message has unexpectedly
disconnected.

User response: Check the agent's log for any errors
and contact IBM Software Support if needed.

DYXY005E Location *location-name* does not exist on
machine-name.

Explanation: The location that is identified in the
message does not exist.

User response: Verify that the identified subsystem or
data sharing group exists on the identified machine.

DYXY008E The configuration file *file-name* is
invalid; the root element *element* is not
<server-config>.

Explanation: The contents of the specified
configuration file are invalid.

User response: Correct the file contents to specify
<server-config> as the root XML element.

DYXY009E An error occurred while opening the
configuration file *file-name*. *message-text*

Explanation: An error occurred while opening the
configuration file that is identified in the message.

User response: Review the message text for more
information about the error that occurred. Specify a
valid configuration file which is not in use by any other
process.

DYXY012I Received an acknowledgment with
sequence = *sequence-id* and ID =
request-id from an agent session with ID
= *session-id*.

Explanation: Received an acknowledgment that is
identified in the message from an agent session.

User response: No action is required.

DYXY013I Received a data message from an agent
session with ID = *session-id*.

Explanation: Received a data message from an agent
session with the ID that is identified in the message.

User response: No action is required.

DYXY014I Received a negative acknowledgment
with sequence = *sequence-id* from an
agent session with ID = *session-id*.

Explanation: Db2 Autonomics Director received a
negative acknowledgment from an agent session that is
identified in the message.

User response: No action is required.

DYXY015I Received a report with type = *type* from
an agent session with ID = *session-id*.

Explanation: Db2 Autonomics Director received a
report from an agent that is identified in the message.

User response: No action is required.

DYXY016I Received request with sequence =
sequence-id and type = *type* from client
session *session-id*.

Explanation: Db2 Autonomics Director received a
request from the client session that is identified in the
message.

User response: No action is required.

DYXY017I Received a response with ID = *id*, type =
type, and final indicator = *indicator* from
an agent session with ID = *session-id*.

Explanation: Db2 Autonomics Director received a

DYXY022I • DYXY037I

response from an agent session that is identified in the message.

User response: No action is required.

DYXY022I IBM Autonomics Director for Db2 server started.

Explanation: Db2 Autonomics Director server started.

User response: No action is required.

DYXY023I (CT request-id) Task started.

Explanation: Task started.

User response: No action is required.

DYXY024E (CT request-id) Error: message-text

Explanation: Message text identifies the error and the request ID.

User response: Use the specified message text to diagnose the error.

DYXY025I (CT request-id) Task ended.

Explanation: Task ended.

User response: No action is required.

DYXY026I (CT request-id) Started processing request with sequence = sequence-id and type = type.

Explanation: Db2 Autonomics Director started processing the request that is identified in the message.

User response: No action is required.

DYXY027I (CT request-id) Completed processing request with sequence = sequence-id and type = type.

Explanation: Db2 Autonomics Director completed processing the request that is identified in the message.

User response: No action is required.

DYXY028E (CT request-id) Task does not exist.

Explanation: Task does not exist.

User response: Contact IBM Software Support.

DYXY029I IBM Autonomics Director for Db2 server is terminating normally.

Explanation: Db2 Autonomics Director server is terminating normally.

User response: No action is required.

DYXY030E IBM Autonomics Director for Db2 server is terminating due to prior errors.

Explanation: Db2 Autonomics Director server is terminating due to prior errors.

User response: See preceding messages to determine why the server is terminating.

DYXY031E An invalid request type "request-id" was received.

Explanation: An invalid request type that is identified in the message was received.

User response: Contact IBM Software Support.

DYXY032E Invalid data was received from an agent: data.

Explanation: Invalid data that is identified in the message was received from an agent.

User response: Contact IBM Software Support.

DYXY033I IBM Autonomics Director for Db2 is terminating. Please end your session.

Explanation: Db2 Autonomics Director is terminating.

User response: End your session.

DYXY034E An invalid report type "report-id" was received.

Explanation: An invalid report type that is identified in the message was received.

User response: Contact IBM Software Support.

DYXY035I (AT request-id) Task started.

Explanation: Task started.

User response: No action is required.

DYXY036E (AT request-id) Error: message-text.

Explanation: Message text identifies the error and the request ID..

User response: Use the specified message text to diagnose the error.

DYXY037I (AT request-id) Task ended.

Explanation: Task ended.

User response: No action is required.

DYXY038I (AT *request-id*) **Sent request.** agent-info {*id=agent-id*} ; request-info {*type=request-type,sequence=sequence-id*}

Explanation: Request sent.

User response: No action is required.

DYXY039I (AT *request-id*) **Received ack.** agent-info {*id=agent-id*}; ack-info {*sequence=sequence-id,id=request-id*}

Explanation: Acknowledgment received.

User response: No action is required.

DYXY040I (AT *request-id*) **Received nack.** agent-info {*id=agent-id*}; nack-info {*sequence=sequence-id*}

Explanation: Negative acknowledgment received.

User response: No action is required.

DYXY041I (AT *request-id*) **Received response.** agent-info {*id=agent-id*} ; response-info {*id=request-id, final =indicator*}

Explanation: Response received.

User response: No action is required.

DYXY042I (AT *request-id*) **Agent disconnected unexpectedly.** agent-info {*id=agent-id*}

Explanation: Agent disconnected unexpectedly.

User response: Review the agent job output to determine why it disconnected unexpectedly.

DYXY043I **Task was canceled.**

Explanation: Task was canceled.

User response: No action is required.

DYXY044S **The agent for location *location-name* has unexpectedly disconnected.**

Explanation: The agent for the location that is identified in the message has unexpectedly disconnected.

User response: Review the agent job output to determine why it disconnected unexpectedly.

DYXY046E **The length of the "*parameter*" configuration parameter exceeds *number*.**

Explanation: The length of the configuration parameter that is identified in the message exceeds the maximum allowable length.

User response: Specify a value for the configuration

parameter which does not exceed the maximum allowable length.

DYXY048I (ACP) **Received *command* command.**

Explanation: Db2 Autonomics Director received the command that is identified in the message.

User response: No action is required.

DYXY049I (ACP) ***command* -- Begin output.**

Explanation: This is the beginning of the output from the command that is identified in the message.

User response: No action is required.

DYXY050I (ACP) ***command* -- End output.**

Explanation: This is the end of the output from the command that is identified in the message.

User response: No action is required.

DYXY051E (ACP) ***command* not recognized.**

Explanation: The command that is identified in the message is not recognized.

User response: Specify a command that is supported by the server. See the topic "Administrative commands" for supported administrative commands.

DYXY052E (ACP) ***command* -- Unique specification ID not specified.**

Explanation: The command is not properly formatted.

User response: See the topic "Administrative commands" for supported administrative commands.

DYXY053E (ACP) ***command* -- Session ID required.**

Explanation: The command is not properly formatted.

User response: See the topic "Administrative commands" for supported administrative commands.

DYXY054I **Administrator has requested that this session be closed. Please end your session.**

Explanation: The administrator has requested that this session be ended.

User response: End your session.

DYXY055I **Sending report with *type = type* to client with session id = *session-id*.**

Explanation: Db2 Autonomics Director is sending the report that is identified in the message.

User response: No action is required.

DYXY056E Protocol verification has failed. The client reported a version of *version number* and the server expected *version number* or higher.

Explanation: This error occurs if there is a mismatch between the client version and the server version and the mismatch would cause unpredictable results.

User response: Please verify that the version of the server and the client is the same.

DYXY057E No interfaces can be configured for multicasting.

Explanation: Indicates that no interfaces can be configured for multicasting.

User response: Set multicast address in the server configuration if it is empty. Otherwise contact your product administrator.

DYXY058I No interfaces are available for multicasting.

Explanation: There are no network interfaces in the system available for multicasting.

User response: Contact your product administrator.

DYXY059I Attempting to configure multicasting at interface *ip-stack-name@interface-name* (IP address *IP address*, index *index*. Multicasting group address *multicast-address*.

Explanation: Server is attempting to configure specified network interface to send announcements for multicast group *multicast-address*.

User response: No action is required.

DYXY060I Attempt to configure multicasting at default interface. Multicasting group address *multicast-address*.

Explanation: Server is attempting to configure default network interface to send announcements for multicast group *multicast-address*.

User response: No action is required.

DYXY061I Multicasting has been configured successfully.

Explanation: This message indicates that multicasting has been successfully configured.

User response: No action is required.

DYXY062I Attempting to send multicast packet.

Explanation: Server is attempting to send multicast announcement.

User response: No action is required.

DYXY063I Multicast packet sent successfully.

Explanation: Server multicast announcements sent successfully.

User response: No action is required.

DYXY064I Attempting to enumerate network interfaces.

Explanation: Server is attempting to enumerate network interfaces to send multicast announcements.

User response: No action is required.

DYXY065I Discovered *number* interfaces.

Explanation: Server discovered a number of network interfaces represented by *number* which can be used to send server announcements.

User response: No action is required.

DYXY067I Multicast is disabled. No multicast address specified.

Explanation: There are no network addresses specified in the system for multicasting.

User response: No action is required, unless multicasting is desired. In that case, ensure that multicast configuration was correctly set up. If you did not edit the configuration file, contact your product administrator.

DYXZ007E Callable service invocation failed with return code = *return-code* and reason code = *reason-code*.

Explanation: A callable service invocation failed with a return code and reason code that are identified in the message.

User response: Contact IBM Software Support.

DYXZ009E Callable service invocation failed with return code = *return-code* and reason code = *reason-code*. Message text: *text*

Explanation: A callable service invocation failed with a return code, reason code, and message text that are identified in the message.

User response: Contact IBM Software Support

DYXZ010E **Unable to find profile with name**
creator.name.

Explanation: The Db2 Autonomics Director profile with the specified name was not found.

User response: Specify a valid profile name.

DYXZ011E **No objects meet wildcard criteria**
objects-mask.

Explanation: The Db2 Autonomics Director object profile does not contain objects, which match specified *pattern*.

User response: Specify another object mask.

DYXZ012E **Object *object-name* doesn't exist.**

Explanation: The Db2 Autonomics Director object profile does not contain any objects with the name *object-name*.

User response: Specify another object name.

DYXZ013E **Parameter *parameter-name* has invalid value *parameter-value*.**

Explanation: The *parameter-name* in the Db2 Autonomics Director profile contains an incorrect *parameter-value*.

User response: Specify the correct parameter value.

DYXZ014E **SQL allowed in wildcard object only.**

Explanation: The Db2 Autonomics Director object profile allows SQL only when the Wildcard option is specified for table space objects.

User response: Specify the wildcard option, or remove the SQL.

DYXZ015E **Wildcard symbols not allowed: Object**
object-name.

Explanation: The wildcard symbol was used in the wrong context.

User response: Remove the wildcard symbol.

DYXZ016E **Access to restricted profile *profile-name* not allowed.**

Explanation: The Db2 Autonomics Director profile was created with the share option of View or No. Only the profile creator can access this profile.

User response: No action is required.

DYXZ030I **Invoking callable service *service-name*.**

Explanation: Invoking a callable service that is identified in the message.

User response: No action is required.

DYXZ031I **Returned from callable service**
service-name.

Explanation: Returned from a callable service that is identified in the message.

User response: No action is required.

DYXZ032E **DB2 Admin Scheduler task '*task name*' already exists.**

Explanation: The Db2 Admin Scheduler task with the specified name already exists in the Scheduler.

User response: Specify a valid task name.

DYXZ033E **Trigger Task '*task name*' does not exist.**

Explanation: The Db2 Admin Task with the specified name does not exist in the scheduler and cannot be used as a trigger task.

User response: Specify a valid task name.

DYXZ034E **DB2 Admin Scheduler task '*task name*' does not exist.**

Explanation: The Db2 Admin Task with the specified name does not exist in the scheduler.

User response: Refresh the list of tasks before taking further actions.

DYXZ035E **Invalid exception rule for order -**
creator.name "group name". The exception rule profile does not exist in the group or points to itself. Either delete the exception rule or specify a valid profile number within the group.

Explanation: The profile with the specified order number, creator, name, and group has an invalid exception rule.

User response: Delete the exception rule or specify a valid profile number within the group.

DYXZ036E **Invalid type profile. order - *creator.name* ("*group name*") will not be executed. No other profile points to this profile. Either delete the profile or link an exception profile to it.**

Explanation: The profile of the specified type will not be run.

User response: Delete this profile or link an exception profile to it.

DYXZ037E **Invalid exception profile** (*order - creator.name "group name"*). **There are no exception rules specified. However, there are conditional profiles in this jobs group. Either delete the profile or specify an exception rule.**

Explanation: The specified exception profile is invalid. There are no exception rules specified.

User response: Either delete the profile or specify an exception rule.

DYXZ038E **Duplicate order number** (*order - creator.name "group name"*).

Explanation: The specified exception profile has a duplicate order number.

User response: Ensure that all profiles have different order numbers.

DYXZ039E **Invalid exception profile** (*order - creator.name "group name"*). **Both exception rules point to the same profile.**

Explanation: The specified exception profile is invalid. Both exception rules point to the same profile.

User response: Ensure that the specified exception profile has different exception rules.

Chapter 8. Reference

Reference information supports the tasks that you must complete to install, customize, and use Db2 Autonomics Director.

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

The name that is used by the TSO/batch attachment, the call attachment facility (CAF), DL/I batch, utilities, and the Resource Recovery Services attachment facility (RRSAF) as a generic attachment name. An example of a group attach name is DSG1.

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 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 15. Status types for the product, the LPAR, and the Db2 entries

Status	Product	LPAR	Db2 entries
Incomplete	The required product parameters are not defined.	The required parameters are not defined.	The required parameters are not defined.
Discovered	The product parameter definitions were discovered by using the product Discover EXEC.	N/A	N/A
Ready to Customize	The required product, is Ready to Customize or Customized for the LPAR and at least one associated Db2 entry. You can generate the customization jobs.	The required LPAR parameters are defined or LPAR parameters are not required.	The required Db2 parameters are defined or Db2 parameters are not required.
Verify Values	The required product or component parameter values are defined but they either have not been verified or verification is not enabled on the Product or Component Parameters panel.	The required LPAR parameter values are defined, but they either have not been verified or verification is not enabled on the LPAR Parameters panel.	The required Db2 parameter values are defined, but they either have not been verified or verification is not enabled on the Db2 Parameters panel.
Customized	The jobs are customized on the local LPAR.	The jobs are customized for the product or for all of the associated Db2 entries on the local LPAR.	The jobs are customized for the Db2 entry.
Errors in Customization	N/A	N/A	Errors occurred while the customization jobs were being generated.
Not Required	N/A	LPAR parameters are not required.	Db2 parameters are not required.

Related tasks:

“Creating and associating Db2 entries” on page 35

You can create new Db2 entries and associate them with Db2 Autonomics Director.

“Copying Db2 entries” on page 47

You can copy associated and not associated Db2 entries to other Db2 entries or to new Db2 entries.

“Removing Db2 entries” on page 48

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, group attach name, 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 or data sharing groups, 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 16. Data set attributes for allocating the Discover output, data store, and customization library data sets

Data set	Organization	Record format	Record length	Block size	Data set name type
Discover output data set	PO	Variable block	16383	32760	LIBRARY
Data store data set	PO	Variable block	16383	32760	LIBRARY
Product customization library	PO	Fixed block	80	32720	LIBRARY

Restrictions:

- Multiple users cannot simultaneously share the discover output data set, data store data set, Tools Customizer metadata library, and metadata library.

Notices

This information was developed for products and services offered in the U.S.A.

This material may be available from IBM in other languages. However, you may be required to own a copy of the product or product version in that language in order to access it.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this information and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement, or any equivalent agreement between us.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

© (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. _enter the year or years_. All rights reserved.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

Trademarks

IBM, the IBM logo, and [ibm.com](http://www.ibm.com)[®] are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at <http://www.ibm.com/legal/copytrade.html>.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product, and service names may be trademarks or service marks of others.

Terms and conditions for product documentation

Permissions for the use of these publications are granted subject to the following terms and conditions:

Applicability: These terms and conditions are in addition to any terms of use for the IBM website.

Personal use: You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

Commercial use: You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

Rights: Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY,

NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

Privacy policy considerations

IBM Software products, including software as a service solutions, ("Software Offerings") may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering's use of cookies is set forth below.

This Software Offering does not use cookies or other technologies to collect personally identifiable information.

If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, see IBM's Privacy Policy at <http://www.ibm.com/privacy> and the section titled "Cookies, Web Beacons, and Other Technologies" in IBM's Online Privacy Statement at <http://www.ibm.com/privacy/details>. Also, see the "IBM Software Products and Software-as-a-Service Privacy Statement" at <http://www.ibm.com/software/info/product-privacy>.

Index

A

- accessibility
 - overview 4
- administrative commands 57
- agent-server
 - configuration 55
 - connections
 - automatic discovery 55
- APF authorization 8
 - Db2 Autonomics Director agent 59
- automatic discovery
 - agent-server connections 55
 - client-server connections 55
 - community string 55
 - multicast options 55
 - server notifications 55

B

- batch job for starting the stored
 - procedure 53
- BPX.SERVER access
 - Db2 Autonomics Director agent 59

C

- changing display options 28
- client-server
 - configuration 55
 - connections
 - automatic discovery 55
- cookie policy 159, 162
- Copy DB2 Entries panel 47
- customization
 - associated list
 - adding Db2 entries 35
 - overview 153
 - associating Db2 entries 35
 - browsing parameters 47
 - changing display options 28
 - changing parameters 31
 - component 153
 - copying Db2 entries 47
 - Create a DB2 Entry panel 35
 - creating Db2 entries 35
 - customization jobs
 - deleting 50
 - displaying 49
 - generating 43
 - maintaining 50
 - regenerating 43
 - renaming 50
 - sort sequence 44
 - submitting 44, 49
 - customization library
 - deleting jobs 50
 - maintaining 50
 - overview 156
 - recustomizing 50
 - renaming jobs 50

- customization (*continued*)
 - customization library qualifier
 - specifying 24
 - Customized status 153
 - Customizer Workplace panel 43
 - customizing a new version of a product 31
 - customizing a product for the first time 31
 - customizing settings 24
 - data sets
 - customization library 156
 - data store 156
 - Discover EXEC library 156
 - metadata library 156
 - data store
 - overview 156
 - data store data set
 - specifying 24
 - Db2 data sharing members
 - adding 35
 - associating 35
 - copying 47
 - creating 35
 - Db2 entries 153
 - adding 35
 - associating 35
 - copying 47
 - creating 35
 - defining 43
 - deleting 48, 49
 - generating jobs for 43
 - removing 48
 - selecting 43
 - specifying 43
 - unassociating 48, 49
 - Db2 group attach field
 - specifying 24
 - Db2 group attach names
 - adding 35
 - associating 35
 - copying 47
 - creating 35
 - Db2 parameters
 - defining 41
 - editing 41
 - DB2 Parameters panel 41
 - Db2 subsystems
 - adding 35
 - associating 35
 - copying 47
 - creating 35
 - defining Db2 parameters 41
 - defining LPAR parameters 39
 - defining parameters 37, 43
 - defining product parameters 37
 - deleting Db2 entries 49
 - deleting jobs 32
 - Discover EXEC
 - customizing a new version of a product 31

- customization (*continued*)
 - Discover EXEC (*continued*)
 - overview 156
 - Discovered status 153
 - display options 28
 - displaying jobs 49
 - displaying panel text 28
 - editing LPAR parameters 39
 - editing parameters 31
 - editing product parameters 37
 - Errors in Customization status 153
 - finding trace data set 62
 - Finish Product Customization
 - panel 44
 - first-time 31
 - first-time customization 31
 - generating jobs 43
 - hiding panel text 28
 - high-level qualifier 153
 - Incomplete status 153
 - job sort order 44
 - jobs
 - deleting 50
 - displaying 49
 - maintaining 50
 - renaming 50
 - sort order 44
 - submitting 44, 49
 - LPAR parameters
 - defining 39
 - editing 39
 - LPAR Parameters panel 39
 - LPARs 50
 - maintaining jobs 50
 - master list
 - adding Db2 entries 35
 - Associate DB2 Entry for Product panel 35
 - overview 153
 - maximizing information panels 28
 - metadata libraries
 - specifying 33
 - metadata library
 - overview 156
 - specifying 24
 - modifying parameters 31
 - modifying settings 24
 - multiple instances 24
 - multiple-LPAR environment 50
 - Not Required status 153
 - options 28
 - panel display options 28
 - panels
 - Associate DB2 Entry for Product 35
 - Create a DB2 Entry 35
 - Customizer Workplace 43
 - DB2 Parameters 41
 - Finish Product Customization 44
 - LPAR Parameters 39
 - Product Parameters 37

- customization (*continued*)
 - panels (*continued*)
 - Specify the Metadata Library 33
 - parameter values 9
 - parameters
 - browsing 47
 - defining 37, 43
 - viewing 47
 - preparing to use Tools Customizer 24
 - product 153
 - product parameters
 - changing 32
 - defining 37
 - editing 32, 37
 - modifying 32
 - Product Parameters panel 37
 - Ready to Customize status 153
 - recustomization 31, 32
 - recustomizing 32
 - recustomizing a product 31
 - removing Db2 entries 48
 - roadmaps 31
 - customizing for the first time 31
 - first-time customization 31
 - reustomizing 32
 - Specify the Metadata Library panel 33
 - specifying data sets 24
 - specifying metadata libraries 33
 - starting Tools Customizer 23
 - status types
 - Customized 153
 - Discovered 153
 - Errors in Customization 153
 - Incomplete 153
 - Not Required 153
 - Ready to Customize 153
 - submitting jobs 44
 - terminology 153
 - trace data set 62
 - troubleshooting 61
 - finding trace data set 62
 - user job card settings
 - specifying 24
 - viewing parameters 47
- customization library
 - overview 156
- customization library qualifier
 - specifying 24
- customizing settings 24

D

- data set names
 - gathering 7
- data store
 - overview 156
- data store data set
 - specifying 24
- Db2 administrative task scheduler 6
- Db2 Autonomics Director
 - agent environment 58
- Db2 Autonomics Director agent
 - security
 - APF authorization 59
 - BPX.SERVER access 59

- Db2 Autonomics Director agent
 - (*continued*)
 - security (*continued*)
 - package and plan access 59
- Db2 Autonomics Director server 56
 - stop server 56
- Db2 Autonomics Director Db2 Autonomics Director agent 58
- Db2 group attach field
 - specifying 24
- Db2 requirements 6
- diagnostic information
 - gathering 61
- Discover EXEC
 - overview 156
- display options 28
- displaying panel text 28
- documentation
 - accessing 3
 - sending feedback 3
- documentation changes 1, 2

F

- first-time customization 31

H

- hiding panel text 28

L

- legal notices
 - cookie policy 159, 162
 - notices 159
 - programming interface information 159
 - trademarks 159, 161
- load libraries
 - APF authorizing 8

M

- maximizing information on panels 28
- messages
 - overview 123
- metadata library
 - overview 156
 - specifying 24
- modifying settings 24

N

- notices 159

O

- options 28
- overview 1

P

- panel display options 28

panels

- Copy DB2 Entries 47

parameters

- customization 9

passphrases, configuring for 6

passwords, long 6

preparing to use Tools Customizer 24

problems

- diagnostic information about 61

programming interface information 159

R

reader comment form 3

roadmaps

- customizing for the first time 31

- first-time customization 31

S

screen readers and magnifiers 4

server environment 56

server notifications

- automatic discovery 55

server output

- SYSOUT DD 56

server security 56

server, client, and agent communication

- automatic discovery 55

- manual configuration 55

service information 3

specifying data sets 24

stored procedure

- batch job for starting 53

summary of changes 1, 2

support

- required information 61

support information 3

SYSOUT DD

- server output 56

T

technotes 3

Tools Customizer

- associated list

- adding Db2 entries 35

- overview 153

- associating Db2 entries 35

- browsing parameters 47

- changing display options 28

- component 153

- Copy DB2 Entries panel 47

- copying Db2 entries 47

- Create a DB2 Entry panel 35

- creating Db2 entries 35

- customization jobs

- deleting 50

- displaying 49

- generating 43

- maintaining 50

- renaming 50

- sort sequence 44

- submitting 44, 49

- customization library

- deleting jobs 50

Tools Customizer (*continued*)

- customization library (*continued*)
 - maintaining 50
 - recustomizing 50
 - renaming jobs 50
- customization library qualifier
 - specifying 24
- Customized status 153
- Customizer Workplace panel 43
- customizing a new version of a
 - product 31
- customizing a product for the first
 - time 31
- data sets
 - customization library 156
 - data store 156
 - Discover EXEC library 156
 - metadata library 156
- data store data set
 - specifying 24
- Db2 data sharing members
 - adding 35
 - associating 35
 - copying 47
 - creating 35
- Db2 entries 153
 - adding 35
 - associating 35
 - copying 47
 - creating 35
 - defining 43
 - deleting 48
 - generating jobs for 43
 - removing 48
 - selecting 43
 - specifying 43
 - unassociating 48
- DB2 entries 153
- Db2 group attach field
 - specifying 24
- Db2 group attach names
 - adding 35
 - associating 35
 - copying 47
 - creating 35
- Db2 parameters
 - defining 41
 - editing 41
- DB2 Parameters panel 41
- Db2 subsystems
 - adding 35
 - associating 35
 - copying 47
 - creating 35
- DBb2 entries
 - deleting 49
 - unassociating 49
- defining Db2 parameters 41
- defining LPAR parameters 39
- defining parameters 37, 43
- defining product parameters 37
- deleting Db2 entries 49
- deleting jobs 32
- Discover EXEC
 - customizing a new version of a
 - product 31
- Discovered status 153

Tools Customizer (*continued*)

- displaying jobs 49
- displaying panel text 28
- editing LPAR parameters 39
- editing product parameters 37
- Errors in Customization status 153
- finding trace data set 62
- Finish Product Customization
 - panel 44
- first-time customization 31
- generating jobs 43
- hiding panel text 28
- high-level qualifier 153
- Incomplete status 153
- job sort order 44
- jobs
 - deleting 50
 - displaying 49
 - maintaining 50
 - renaming 50
 - submitting 49
- LPAR Parameters panel 39
- maintaining jobs 50
- master list
 - adding Db2 entries 35
 - Associate DB2 Entry for Product
 - panel 35
 - overview 153
- maximizing information on
 - panels 28
- metadata libraries 33
 - specifying 33
- metadata library
 - specifying 24
- multiple instances 24
- multiple-LPAR environment 50
- Not Required status 153
- panels
 - Associate DB2 Entry for
 - Product 35
 - Copy DB2 Entries 47
 - Create a DB2 Entry 35
 - Customizer Workplace 43
 - DB2 Parameters 41
 - Finish Product Customization 44
 - LPAR Parameters 39
 - Product Parameters 37
 - Specify the Metadata Library 33
- parameters
 - browsing 47
 - viewing 47
- preparing to use 24
- product 153
- product parameters
 - changing 32
 - editing 32
 - modifying 32
- Product Parameters panel 37
- Ready to Customize status 153
- recustomization 31
- recustomizing a product 31, 32
- removing Db2 entries 48
- roadmaps
 - recustomizing a product 32
- Specify the Metadata Library
 - panel 33
- specifying metadata libraries 33

Tools Customizer (*continued*)

- starting 23
- status types
 - Customized 153
 - Discovered 153
 - Errors in Customization 153
 - Incomplete 153
 - Not Required 153
 - Ready to Customize 153
- submitting jobs 44
- terminology 153
- trace data set 62
- troubleshooting 61
- user job card settings
 - specifying 24
- viewing parameters 47
- trace data set
 - finding 62
- trademarks 159, 161
- troubleshooting 61

U

- user job card settings
 - specifying 24

W

- what's new 1, 2

Z

- z/OS requirements 6



Product Number: 5655-V93

Printed in USA