IBM<sup>®</sup> Storage Networking



# IBM Network Advisor Port Commissioning Quick Start Guide

Supporting IBM Network Advisor version 14.2.1

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IBM<sup>®</sup> Storage Networking



# IBM Network Advisor Port Commissioning Quick Start Guide

Supporting IBM Network Advisor version 14.2.1

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# **About This Document**

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## What's new in this document

The following changes have been made since this document was last released:

- · Information that was added:
  - None
- · Information that was changed:
  - Updated release version wherever applicable
- Information that was deleted:
  - None.

For further information about new features and documentation updates for this release, refer to the IBM Network Advisor 14.x release notes.

# Supported hardware and software

In those instances in which procedures or parts of procedures documented here apply to some devices but not to others, this guide identifies exactly which devices are supported and which are not.

Although many different software and hardware configurations are tested and supported by Brocade Communications Systems, Inc. for IBM Network Advisor 14.2.1, documenting all possible configurations and scenarios is beyond the scope of this document.

### Fabric OS software support

The following firmware platforms are supported by this release of IBM Network Advisor 14.2.1:

- · Fabric OS 7.0 or later
- · Fabric OS 8.0 or later
- Fabric OS 8.1 or later

For platform specific Fabric OS requirements, refer to the Firmware level required column in the table.

#### NOTE

Discovery of a Secure Fabric OS fabric in strict mode is not supported.

### Fabric OS hardware support

The hardware platforms in the following table are supported by this release of IBM Network Advisor 14.2.1 as well as any platform specific Fabric OS requirements.

 TABLE 1
 Supported Hardware

IBM Name	Terminology used in documentation	Firmware level required
SAN24B-4	24-port, 8 Gbps FC Switch	Fabric OS v7.0.0 or later
SAN40B-4	40-port, 8 Gbps FC Switch	Fabric OS v7.0.0 or later
SAN80B-4	80-port, 8 Gbps FC Switch	Fabric OS v7.0.0 or later
SAN24B-5	24-port, 16 Gbps Edge switch	Fabric OS v7.0.1 or later
SAN48B-5	48-port, 16 Gbpsswitch	Fabric OS v7.0.0 or later
SAN96B-5	96-port, 16 Gbps switch	Fabric OS v7.1.0 or later
IBM Flex System FC5022 16Gb SAN Scalable Switches (ScSM)	48-port, 16 Gbps embedded switch	Fabric OS v7.2.0 or later
SAN04B-R	4 Gbps Extension Switch	Fabric OS v7.0.0 or later
SAN06B-R	8 Gbps Extension Switch	Fabric OS v7.0.0 or later
SAN42B-R	16 Gbps 24-FC port, 18 GbE port Switch	Fabric OS v7.3.0 or later
IBM Converged Switch B32	8 Gbps 8-FC-port, 10 GbE 24-CEE port Switch	Fabric OS v6.1.2_CEE
SAN32B-E4 Encryption Switch	8 Gbps Encryption Switch	Fabric OS v6.1.1_enc or later
IBM Storage Networking SAN24B-6	24-port, 32 Gbps switch	Fabric OS v8.1.0 or later
IBM Storage Networking SAN64B-6	64-port, 32 Gbps switch	Fabric OS v8.0.0 or later

### TABLE 1 Supported Hardware (Continued)

IBM Name	Terminology used in documentation	Firmware level required
SAN768B Professional and Professional Plus Trial and Licensed version can discover, but not manage, this device. This device cannot be used as a Seed switch.	384-port Backbone Chassis	Fabric OS v6.0.0 or later
SAN768B with FC8-16, FC8-32, and FC8-48 Blades	384-port Backbone Chassis with 8 Gbps 16-FC port, 8 Gbps 32-FC port, and 8 Gbps 48-FC port Blades	Fabric OS v7.0.0 or later
SAN768B with FC8-64 Blade	384-port Backbone Chassis with 8 Gbps 64-port Blade	Fabric OS v7.0.0 or later
SAN768B with FR4-18i Blade	384-port Backbone Chassis with 4 Gbps Router, Extension Blades	Fabric OS v7.0.0 or later
SAN768B with FC10-6 Blade	384-port Backbone Chassis with FC 10 - 6 ISL Blade	Fabric OS v7.0.0 or later
SAN768B with FX8-24 Extension Blades	384-port Backbone Chassis with 8 Gbps Extension Blades	Fabric OS v6.3.1_CEE
SAN768B with FCoE10-24 Blades	384-port Backbone Chassis with 8 Gbps 24-port FCoE Blades	Fabric OS v6.3.1_CEE
SAN384B Professional can discover, but not manage, this device. This device cannot be used as a Seed switch.	192-port Backbone Chassis	Fabric OS v7.0.0 or later
SAN384B with FC8-16, FC8-32, and FC8-48 Blades	192-port Backbone Chassis with 8 Gbps 16-FC port, 8 Gbps 32-FC port, and 8 Gbps 48-FC port Blades	Fabric OS v7.0.0 or later
SAN384B with FC8-64 Blade	192-port Backbone Chassis with 8 Gbps 64-port Blade	Fabric OS v7.0.0 or later
SAN384B with FR4-18i Blades	192-port Backbone Chassis with 4 Gbps Router, Extension Blades	Fabric OS v7.0.0 or later

### TABLE 1 Supported Hardware (Continued)

IBM Name	Terminology used in documentation	Firmware level required
SAN384B with FC10-6 Blades	192-port Backbone Chassis with FC 10 - 6 ISL Blades	Fabric OS v7.0.0 or later
SAN384B with FX8-24 Extension Blades	192-port Backbone Chassis with 8 Gbps 12-FC port, 10 GbE ports, 2-10 GbE ports Extension Blades	Fabric OS v6.3.1_CEE
SAN384B with FCoE10-24 Blades	192-port Backbone Chassis with 8 Gbps 24-port FCoE Blade	Fabric OS v7.0.0 or later
SAN384B-2 Professional and Professional Plus Trial and Licensed version can discover, but not manage, this device. This device cannot be used as a Seed switch.	16 Gbps 192-port Backbone Chassis	Fabric OS v7.0.0 or later
SAN768B-2 Professional and Professional Plus Trial and Licensed version can discover, but not manage, this device. This device cannot be used as a Seed switch.	16 Gbps 384-port Backbone Chassis	Fabric OS v7.0.0 or later
IBM Storage Networking SAN256B-6 Professional and Professional Plus Trial and Licensed version can discover, but not manage, this device. This device cannot be used as a Seed switch.	32 Gbps, 4-slot Backbone Chassis	Fabric OS v8.0.1 or later
IBM Storage Networking SAN512B-6 Professional and Professional Plus Trial and Licensed version can discover, but not manage, this device. This device cannot be used as a Seed switch.	32 Gbps, 8-slot Backbone Chassis	Fabric OS v8.0.1 or later
FC8-16 Blade	FC 8 GB 16-port Blade	Fabric OS v7.0.0 or later

### TABLE 1 Supported Hardware (Continued)

IBM Name	Terminology used in documentation	Firmware level required
FC8-32 Blade	FC 8 GB 32-port Blade	Fabric OS v7.0.0 or later
FC8-32E Blade	FC 8 GB 32-port Blade	Fabric OS v7.0.1 or later
FC8-48 Blade	FC 8 GB 48-port Blade	Fabric OS v7.0.0 or later
FC8-48E Blade	FC 8 GB 48-port Blade	Fabric OS v7.0.1 or later
FC8-64 Blade	FC 8 GB 64-port Blade	Fabric OS v7.0.0 or later
FC10-6 Blade	FC 10 - 6 ISL Blade	Fabric OS v7.0.0 or later
FC16-32 Blade Only supported on the SAN384B-2 and SAN768B-2 chassis.	16 Gbps 32-port blade	Fabric OS v7.0.0 or later
FC16-48 Blade Only supported on the SAN384B-2 and SAN768B-2 chassis.	16 Gbps 48-port blade	Fabric OS v7.0.0 or later
FC16-64 Blade Only supported on the SAN384B-2 and SAN768B-2 chassis.	16 Gbps 64-port blade	Fabric OS v7.0.0 or later
FCoE10-24 Blade Only supported on the SAN384B-2 and SAN768B-2 chassis.	10 Gig FCoE Port Router Blade	Fabric OS v7.0.0 or later
FR4-18i Extension Blade	4 Gbps Router, Extension Blade	Fabric OS v7.0.0 or later
FX8-24 Extension Blade Professional and Professional Plus Trial and Licensed version can discover, but not manage, this device. This device cannot be used as a Seed switch.	8 Gbps Extension Blade	Fabric OS v6.3.1_CEE

#### TABLE 1 Supported Hardware (Continued)

IBM Name	Terminology used in documentation	Firmware level required
FC32-48 Port Blade	32 Gbps 48-port blade	Fabric OS v8.0.1 or later
Professional and Professional Plus Trial and Licensed version can discover, but not manage, this device. This device cannot be used as a Seed switch.		
SX6 Extension Blade	32 Gbps, Router Extension blade	Fabric OS v8.0.1 or later
Professional and Professional Plus Trial and Licensed version can discover, but not manage, this device. This device cannot be used as a Seed switch.		

# **Document conventions**

The document conventions describe text formatting conventions, command syntax conventions, and important notice formats used in this document.

## **Text formatting conventions**

Text formatting conventions such as boldface, italic, or Courier font may be used in the flow of the text to highlight specific words or phrases.

Format	Description
bold text	Identifies command names.
	Identifies keywords and operands.
	Identifies the names of user-manipulated GUI elements.
	Identifies text to enter at the GUI.
<i>italic</i> text	Identifies emphasis.
	Identifies variables.
	Identifies document titles.

Format	Description
Courier font	Identifies CLI output.
	Identifies command syntax examples.

### **Command syntax conventions**

Bold and italic text identify command syntax components. Delimiters and operators define groupings of parameters and their logical relationships.

Convention	Description
bold text	Identifies command names, keywords, and command options.
italic text	Identifies a variable.
value	In Fibre Channel products, a fixed value provided as input to a command option is printed in plain text, for example, <b>show</b> WWN.
[]	Syntax components displayed within square brackets are optional.
	Default responses to system prompts are enclosed in square brackets.
{ x   y   z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
	In Fibre Channel products, square brackets may be used instead for this purpose.
х   у	A vertical bar separates mutually exclusive elements.
<>	Nonprinting characters, for example, passwords, are enclosed in angle brackets.
	Repeat the previous element, for example, <i>member[member]</i> .
١	Indicates a "soft" line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

### Notes, cautions, and warnings

Notes, cautions, and warning statements may be used in this document. They are listed in the order of increasing severity of potential hazards.

#### NOTE

A Note provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

#### ATTENTION

An Attention statement indicates a stronger note, for example, to alert you when traffic might be interrupted or the device might reboot.



### CAUTION

A Caution statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.

### 

A Danger statement indicates conditions or situations that can be potentially lethal or extremely hazardous to you. Safety labels are also attached directly to products to warn of these conditions or situations.

# **Additional information**

This section lists additional IBM-specific documentation that you might find helpful. For support information for this product and other SAN products, see the following Web site: <a href="https://www.ibm.com/supportportal/">www.ibm.com/supportportal/</a>

Visit www.ibm.com/contact/ for the contact information for your country or region. You can also contact IBM within the United States at 1-800-IBMSERV (1-800-426-7378). For support outside the United States, you can find the service number at: www.ibm.com/planetwide/.

### Key terms

For definitions of SAN-specific terms, visit the Storage Networking Industry Association online dictionary at: http://www.snia.org/education/dictionary

# **Getting technical help**

Contact your switch support supplier for hardware, firmware, and software support, including product repairs and part ordering. To expedite your call, have the following information available:

1. Management Application Serial Number

To obtain the Management application serial number, select **Help > License**. The **License** dialog box displays.

- 2. General Information
  - · Switch model
  - · Switch operating system version
  - · Software name and software version, if applicable
  - · Error numbers and messages received
  - **supportSave** command output
  - Detailed description of the problem, including the switch or fabric behavior immediately following the problem, and specific questions
  - Description of any troubleshooting steps already performed and the results
  - Serial console and Telnet session logs
  - syslog message logs
- 3. Switch Serial Number

The switch serial number and corresponding bar code are provided on the serial number label.

The serial number label is located as follows:

- SAN24B-4, SAN24B-5, SAN24B-6, SAN42B-R, SAN64B-6, SAN40B-4, SAN80B-4, SAN96B-5, SAN06B-R, and IBM Converged Switch B32—On the switch ID pull-out tab located inside the chassis on the port side on the left
- SAN48B-5—On the pull-out tab on the front of the switch
- SAN256B—Inside the chassis next to the power supply bays
- · SAN768B and SAN768B-2—On the bottom right on the port side of the chassis
- SAN384B and SAN384B-2—On the bottom left on the port side of the chassis
- SAN256B-6 and SAN512B-6—On the upper portion of the chassis to the left of the fan assemblies
- 4. World Wide Name (WWN)

You can also obtain the WWN from the same place as the serial number. For the SAN768B, SAN384B, SAN768B-2, SAN256B-6, and SAN512B-6, access the numbers on the WWN cards by removing the WWN bezel at the top of the nonport side of the chassis.

If the switch is operable, you can also use the **wwn** command to display the switch WWN.

## How to send your comments

Your feedback is important in helping us provide the most accurate and high-quality information. If you have comments or suggestions for improving this document, send us your comments by e-mail to starpubs@us.ibm.com.

Be sure to include the following:

- · Exact publication title (paste into the e-mail subject line)
- Publication form number (for example, GC26-1234-02)
- Page, table, or illustration numbers
- · A detailed description of any information that should be changed

How to send your comments

# **Port Commissioning**

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# Port commissioning overview

#### NOTE

Port commissioning is supported on all FICON and non-FICON devices running Fabric OS 7.1 or later, whereas F\_Port commissioning is only supported on FICON devices.

Port commissioning provides an automated mechanism to remove an E\_Port or F\_Port from use (decommission) and to put it back in use (recommission). Port commissioning feature identifies the target port and communicates the intention to decommission or recommission the port to those systems within the fabric affected by the action. Each affected system can agree or disagree with the action, and these responses are automatically collected before a port is decommissioned or recommissioned.

Note the following restrictions of port commissioning:

- The local switch and the remote switch on the other end of the E\_Port or F\_Port must both be running Fabric OS 7.1.0 or later.
- · Port commissioning is not supported on links configured for encryption or compression.
- Port commissioning is not supported on ports with dense wavelength division multiplexing (DWDM), coarse wavelength division multiplexing (CWDM), or time-division multiplexing (TDM).
- E\_Port commissioning requires that the lossless feature be enabled on both the local switch and the remote switch.
- Fabric tracking must be enabled to maintain the decommissioned port details (such as port type, device port WWN, and so on). Do not accept changes in the Management application client. For more information about fabric tracking, refer to the .

### z/OS requirements

You must meet the following requirements to configure port decommissioning and recommissioning through the Management application:

- The z/OS must be running 1.12 or later to support z/OS CIM and port decommission.
- A working CIMOM server must be on each logical partition (LPAR) that participates in port decommissioning.

For more information, refer to the sections: Quick guide: CIM server setup and verification, CIM server security setup, and Setting up the CIM server for storage management in the Common Information Model User's Guide, version 1 release 13 (part number: SC33-7998-08).

- You must have System Modification Program/Extended (SMP/E), Resource Access Control Facility (RACF), and UNIX systems services skills.
- You must have the following IBM Authorized Program Analysis Reports (APARs) for z/OS CIM (CIMOM) and port decommissioning on z/OS version 1, release 13:
  - OA38145: z/OS CIM APAR in support of port decommissioning
  - OA38303 and HA42524: IOS port decommissioning APARs

#### NOTE

IBM APAR OA38303 requires OA40538 and OA40037.

- OA40538: Switch CUP diagnostics APAR
- OA40037: ESCON director code in support of switch CUP diagnostics APAR
- OA40876: IOS switch SPOF enhancements APAR
- You must have a Common Event Adapter (CEA) running in full function mode on each LPAR that
  has a CIMOM server that participates in port decommissioning.

For more information, refer to *Customizing for CEA* in the *z/OS Planning for Installation*, version 1 release 13 (part number: GA22-7504-28).

- The CIMOM server must be running as a started task (CFZCIM) on each z/OS LPAR. The CIMOM server must be running for F\_Port decommissioning to function properly.
- You must have access to the CLI (cimcli command) for troubleshooting.
- For more information, refer to Troubleshooting with the cimcli command on page 30.

# **Configuring port commissioning**

The following steps provide an overview of configuring port commissioning.

1. Make sure you meet the z/OS (mainframe operating system) requirements.

For more information, refer to z/OS requirements on page 15.

2. Register each CIMOM server within the fabric affected by the action.

For instructions, refer to Registering a CIMOM server on page 17.

Decommission an F\_Port.

For instructions, refer to Decommissioning an F\_Port on page 21.

4. Review the decommission deployment report.

For instructions, refer to Viewing a port commissioning deployment report on page 28.

5. Recommission the F\_Port.

For instructions, refer to Recommissioning an F\_Port on page 22.

6. Review the recommission deployment report.

For instructions, refer to Viewing a port commissioning deployment report on page 28.

You can also configure port commissioning for E\_Ports (E\_Port commissioning on page 22), all ports on a blade (Port commissioning by blade on page 26), all ports on a switch (Port commissioning by switch on page 24), or all ICL QSFP ports (Port commissioning by ICL QSFP ports on page 25).

## **CIMOM** servers

Before you can decommission or recommission an F\_Port, you must register the CIMOM servers within the fabric affected by the action.

### **Registering a CIMOM server**

To register a CIMOM server, obtain the CIMOM server system and credentials from the CIMOM server administrator and the authorized user ID from the RACF administrator.

1. Select Configure > Port Commissioning > Setup.

The Port Commissioning Setup dialog box displays.

- 2. Enter the IP address (IPv4 or IPv6 format) or host name of the CIMOM server in the **Network Address** field.
- 3. (Optional) Enter a description of the CIMOM server in the **Description** field.

The description cannot be over 1024 characters.

4. Enter the CIMOM port number for the CIMOM server in the CIMOM Port field.

The default port number is 5989.

Enter the namespace of the CIM\_FCPort in the Namespace field.

The default namespace is root/cimv2.

6. (Optional) Enter a user identifier for the CIMOM server in the User ID field.

The credentials user identifier cannot be over 128 characters.

7. (Optional) Enter a password in the Password field.

The password cannot be over 512 characters.

8. Click the right arrow button to add the new CIMOM server and credentials to the Systems List.

The application validates the mandatory fields.

9. Select the new CIMOM server in the Systems List and click Test to check connectivity.

When testing is complete, the updated status displays in the **Status** column of the **Systems List** for the selected CIMOM server.

10.Click OK to save your work and save the CIMOM server details in the database.

### Viewing existing CIMOM servers

Before you can decommission or recommission an F\_Port, you must register the CIMOM servers within the fabric affected by the action. For more information, refer to Registering a CIMOM server on page 17.

1. Select Configure > Port Commissioning > Setup.

The Port Commissioning Setup dialog box displays.

The **Port Commissioning Setup** dialog box has two main areas. The **Add/Edit Systems and Credentials** pane enables you to register CIMOM servers (system and credentials) one at a time and contains the following fields and components:

- Network Address: The IP address (IPv4 or Ipv6 format) or host name of the CIMOM server.
- **Description** (Optional): The description of the CIMOM server. The description cannot be over 1024 characters.
- CIMOM Port: The CIMOM port number for the CIMOM server. The default port number is 5989.

- Namespace: The namespace of the CIM\_FCPort. The default namespace is root/cimv2.
- Credentials User ID (Optional): An user identifier for the CIMOM server. The credentials user identifier cannot be over 128 characters.
- Credentials Password (Optional): A password. The password cannot be over 512 characters.
- Left arrow button: Select a CIMOM server in the Systems List and click to move the defined CIMOM server credentials to the Add/Edit Systems and Credentials pane for editing or deletion.
- Right arrow button: Click to move the defined CIMOM server credentials form the Add/Edit Systems and Credentials pane to the Systems List.

The Systems List details the defined CIMOM server and contains the following data:

- · Network Address: The IP address (IPv4 or Ipv6 format) or host name of the system.
- **Description**: User-defined description of the system.
- CIMOM Port: The CIMOM port number of the system.
- Namespace: The namespace of the CIM\_FCPort.
- User ID: The user identifier for the system.
- Status: The system connectivity status. Updates when you test the reachability of the CIMOM server and when you contact the CIMOM server to respond to the F\_Port recommissioning or decommissioning request. Valid status options include:
  - OK: CIMOM server contact successful with current credentials.
  - Not Contacted Yet: CIMOM servers configured, connectivity not tested yet.
  - Credentials Updated: Credentials changed, connectivity not tested yet.
  - Credentials Failed: CIMOM server contact failed with current credentials.
  - Not Reachable: CIMOM server not reachable.
  - Wrong Namespace: CIMOM server namespace is incorrect.
- Last Contacted: The last time you contacted the system. Updates when you test the reachability
  of the CIMOM server and when you contact the CIMOM server to respond to the F\_Port
  recommissioning or decommissioning request.
- 2. Click **OK** to close **Port Commissioning Setup** dialog box.

### **Editing CIMOM server credentials**

1. Select Configure > Port Commissioning > Setup.

The Port Commissioning Setup dialog box displays.

- 2. Select a CIMOM server from the **Systems List** and click the left arrow button to edit the CIMOM server credentials.
- 3. (Optional) Edit the description of the CIMOM server in the **Description** field.

The description cannot be over 1024 characters.

4. Enter the CIMOM port number for the CIMOM server in the CIMOM Port field.

The default port number is 5989.

5. Enter the namespace of the CIM\_FCPort in the Namespace field.

The default namespace is root/cimv2.

6. (Optional) Enter a user identifier for the CIMOM server in the Credentials User ID field.

The credentials user identifier cannot be over 128 characters.

7. (Optional) Enter a password in the **Password** field.

The password cannot be over 512 characters.

- 8. Click the right arrow button to update the CIMOM server credentials in the Systems List.
- 9. Click OK to save your work and save the CIMOM server details in the database.

### Importing CIMOM servers and credentials

You can import one or more CIMOM servers (system and credentials) using a CSV-formatted file. You can import a maximum of 2,000 CIMOM servers.

1. Select Configure > Port Commissioning > Setup.

The Port Commissioning Setup dialog box displays.

2. Click Import to import CIMOM server information from a file.

The CSV file must use the following format:

Network Address, User ID, CIMOM Port, Namespace, Description, Password

10.24.48.100, user, 2015, root/cimv2, IBM Host, password

The Network Address is mandatory. If you do not provide values for the User ID, CIMOM Port, Namespace, Description, or Password, the Management application provides default values.

3. Browse to the location of the file (.csv file) and click Open.

The imported CIMOM servers display in the Systems List.

4. Click OK to save your work and save the CIMOM server details in the database.

### Exporting CIMOM servers and credentials

1. Select Configure > Port Commissioning > Setup.

The Port Commissioning Setup dialog box displays.

2. Click Export to export CIMOM server information to a file.

The Export Files dialog box displays.

Browse to the location where you want to export the file (.csv file) and click Save.

The CSV file uses the following format:

Network Address, User ID, CIMOM Port, Namespace, Description,

10.24.48.100, user, 2015, root/cimv2, IBM Host,

#### NOTE

Export does not include the password. You can edit the exported file to add the password to the credentials.

4. Click OK to close the Port Commissioning Setup dialog box.

### **Changing CIMOM server credentials**

You can edit the CIMOM server credentials for one or more CIMOM servers at the same time.

1. Select Configure > Port Commissioning > Setup.

The **Port Commissioning Setup** dialog box displays.

2. Select one or more CIMOM servers from the System Lists and click Change Credentials.

The **Edit Credentials** dialog box displays. If you selected one CIMOM server, the credentials for the selected server display in the dialog box. If you selected more than one CIMOM server, the credentials fields are empty.

- 3. (Optional) Enter a user identifier for the CIMOM server in the User ID field.
  - The user identifier cannot be over 128 characters.
- 4. (Optional) Enter a password in the Password field.

The password cannot be over 512 characters.

5. Click OK to close the Edit Credentials dialog box.

The **Port Commissioning Setup** dialog box and the status of the selected CIMOM server rows displays "Credentials Updated".

To validate the credentials, refer to Testing CIMOM server credentials on page 20.

6. Click OK to close the Port Commissioning Setup dialog box.

### **Testing CIMOM server credentials**

You should validate the CIMOM server credentials before you decommission or recommission ports. During the decommission or recommission of an F\_Port, the Management application validates the CIMOM server credentials.

1. Select a device and select Configure > Port Commissioning > Setup.

The Port Commissioning Setup dialog box displays.

Select one or more CIMOM servers from the System Lists and click Test.

The connectivity status of the selected CIMOM server rows display "Testing" in the **System Lists**. When testing is complete, the CIMOM server connectivity status displays. Valid status options include:

- OK: CIMOM server contact successful with current credentials.
- · Not Contacted Yet: CIMOM servers configured, connectivity not tested yet.
- · Credentials Updated: Credentials changed, connectivity not tested yet.
- · Credentials Failed: CIMOM server contact failed with current credentials.
- Not Reachable: CIMOM server not reachable.
- Wrong Namespace: CIMOM server namespace is incorrect.
- 3. Click OK to close the Port Commissioning Setup dialog box.

When the test is complete, an application event displays in the Master Log detailing success or failure.

### **Deleting CIMOM server credentials**

1. Select Configure > Port Commissioning > Setup.

The Port Commissioning Setup dialog box displays.

2. Select one or more CIMOM servers from the System Lists and click the left arrow button.

The details for the last selected CIMOM server row displays in the Add/Edit System and Credentials pane.

Confirm that this is the CIMOM server you want to delete and click OK to delete the CIMOM server from the Port Commissioning Setup dialog box.

When the deletion is complete, an application event displays in the Master Log detailing success or failure.

# F\_Port commissioning

Although you can use any of the following methods to access the F-Port commissioning commands, individual procedures only include one method.

- From the main menu, select the F\_Port in the Product List or Topology, and then select Configure > Port Commissioning > Decommission/Recommission > Port.
- From the Product List, right-click the F\_Port and select Decommission/Recommission > Port.
- From the Topology, right-click the F\_Port and select **Decommission/Recommission > Port**.
- From a Dashboard widget, right-click the F\_Port and select Decommission/Recommission > Port.

### **Decommissioning an F\_Port**

#### NOTE

You must configure at least one CIMOM server (refer to Registering a CIMOM server on page 17) before you can decommission an F\_Port.

#### NOTE

Fabric tracking must be enabled (refer to "Enabling fabric tracking" in the ) to maintain the decommissioned port details (such as port type, device port WWN, and so on). Do not accept changes in the Management application client.

- Select the F\_Port in the Product List, and then select Configure > Port Commissioning > Decommission > Port.
- The Port Commission Confirmation dialog box displays.
- 2. Choose one of the following options:
  - Apply Default Settings (default): Select to have the Management application contact all
    registered CIMOM servers within the fabric affected by the action and obtain the status from each
    CIMOM server. If all CIMOM servers are reachable, the Management application sends a CAL
    request to decommission the port. If even one CIMOM server is not okay, decommissioning fails.

#### NOTE

If any CIMOM server is not reachable or the credentials fail, F\_Port decommissioning does not occur.

 Force : Select to force decommissioning on the N\_Port connected to the F\_Port. The Management application contacts all registered CIMOM servers within the fabric affected by the action, but forces the N\_Port decommissioning regardless of the CIMOM server response.

#### NOTE

If the CIMOM server is not reachable or the credentials fail, F\_Port decommissioning does not occur. If all CIMOM servers are reachable, the Management application sends a CAL request to decommission the port. If some CIMOM servers are reachable and some CIM servers are not reachable, decommissioning fails and the Management application recommissions the decommissioned CIM instances. If any of the discovered CIMOM servers are not reachable, recommissioning is initiated automatically for decommissioned CIM instances.

A decommission N\_Port and switch port message displays.

3. Choose one of the following options:

- Force decommission N port : Select to force decommissioning on the N\_Port connected to the F\_Port. The Management application contacts all registered CIMOM servers within the fabric affected by the action, but forces the N\_Port decommissioning regardless of the CIMOM server response.
- Keep Switch Port Enabled : Select to keep the F\_Port (switch port) enabled and only decommission the N\_Port connected to the F\_Port.
- 4. Click **View Deployment Status** to view the port commissioning results immediately (refer to Port commissioning deployment results on page 28).

You can also view the deployment status in the deployment report at a later time (refer to Viewing a port commissioning deployment report on page 28).

5. Click OK on the Port Commission Confirmation dialog box.

While decommissioning is in progress, a down arrow icon displays next to the port icon in the Product List. The port decommissioning status (Port Decommission in Progress or Decommissioned F Port) displays in the **Additional Port Info** field of the Product List. When decommissioning is complete, a deployment status message displays.

When the decommissioning is complete, an application event displays in the Master Log detailing success or failure.

### **Recommissioning an F\_Port**

#### NOTE

You must configure at least one CIMOM server (refer to Registering a CIMOM server on page 17) before you can recommission an F\_Port.

Select the F\_Port in the Product List, and then select **Configure** > **Port Commissioning** > **Recommission** > **Port**.

#### NOTE

F\_Port recommissioning occurs whether or not any CIMOM server is not reachable.

While recommissioning is in progress, an up arrow icon displays next to the port icon in the Product List. The port recommissioning status (Port Recommission in Progress or Recommissioned F Port) displays in the **Additional Port Info** field of the Product List. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the recommissioning is complete, an application event displays in the Master Log detailing success or failure.

# E\_Port commissioning

Although you can use any of the following methods to access the E\_Port commissioning commands, individual procedures only include one method.

- From the main menu, select the E\_Port in the Product List or Topology, and then select Configure
   Port Commissioning > Decommission/Recommission > Port.
- From the Product List, right-click the E\_Port and select Decommission/Recommission > Port.

- From the Topology, right-click the E\_Port and select Decommission/Recommission > Port.
- From a Dashboard widget, right-click the E\_Port and select Decommission/Recommission > Port.

### Decommissioning an E\_Port

#### NOTE

You must enable Lossless DLS on both the source and destination switches before you decommission an E-Port.

#### NOTE

Fabric tracking must be enabled (refer to "Enabling fabric tracking" in the ) to maintain the decommissioned port details (such as port type, device port WWN, and so on). Do not accept changes in the Management application client.

- Select the E\_Port in the Product List, and then select Configure > Port Commissioning > Decommission > Port.
- 2. If Lossless DLS is enabled, click **Yes** on the confirmation message.

While decommissioning is in progress, a down arrow icon displays next to the port icon in the Product List. The port decommissioning status (Port Decommission in Progress or Decommissioned E Port) displays in the **Additional Port Info** field of the **Product List**. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the decommissioning is complete, an application event displays in the Master Log detailing success or failure.

### **Recommissioning an E\_Port**

#### NOTE

You do not need to enable Lossless DLS before you recommission an E\_Port.

Select the E\_Port in the Product List, and then select **Configure** > **Port Commissioning** > **Recommission** > **Port**.

While recommissioning is in progress, an up arrow icon displays next to the port icon in the Product List. The port recommissioning status (Port Recommission in Progress or Recommissioned E\_Port) displays in the **Additional Port Info** field of the **Product List**. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the recommissioning is complete, an application event displays in the Master Log detailing success or failure.

### Decommissioning an E\_Port trunk

- Select the E\_Port trunk in the Product List, and then select Configure > Port Commissioning > Decommission > Port or right-click E\_Port trunk and select Decommission.
- 2. If lossless DLS is enabled, click Yes on the confirmation message.

The decommission request is sent to all the trunk members including the master if a decommissioning request is triggered on a trunk level. An error message displays, if the trunk group is the only connection between the switches.

During recommissioning, the port will recommission all the decommissioned members of the trunk group if the port was part of the trunk group previously.

# Port commissioning by switch

Although you can use any of the following methods to access the port commissioning commands for a switch, individual procedures only include one method.

- From the main menu, select the switch in the Product List or Topology, and then select Configure
   Port Commissioning > Decommission/Recommission > All F-Ports on the Switch.
- From the Product List, right-click the switch and select Decommission/Recommission > All F-Ports on the Switch.
- From the Topology, right-click the switch and select Decommission/Recommission > All F-Ports on the Switch.
- From a Dashboard widget, right-click the switch and select Decommission/Recommission > All F-Ports on the Switch.

### Decommissioning all ports on a switch

#### NOTE

Fabric tracking must be enabled (refer to "Enabling fabric tracking" in the ) to maintain the decommissioned port details (such as port type, device port WWN, and so on). Do not accept changes in the Management application client.

 Select the switch or logical switch for which you want to decommission all ports in the Product List, and then select Configure > Port Commissioning > Decommission > All F-Ports on the Switch.

#### NOTE

You can only decommission ports from the logical switch, not the physical chassis.

The Port Commission Confirmation dialog box displays.

- 2. Choose one of the following options:
  - Apply Default Settings (default): Select to have the Management application contact all
    registered CIMOM servers within the fabric affected by the action and obtain the status from
    each CIMOM server. If all CIMOM servers are reachable, the Management application sends a
    CAL request to decommission the port. If even one CIMOM server is not reachable,
    decommissioning fails.
  - Force: Select to force decommissioning on the N\_Port connected to the F\_Port. The Management application contacts all registered CIMOM servers within the fabric affected by the action, but forces the N\_Port decommissioning regardless of the CIMOM server response.

#### NOTE

You cannot force decommissioning on an F\_Port.

#### NOTE

If any CIMOM server is not reachable or the credentials fail, port decommissioning does not occur.

3. Click OK on the Port Commission Confirmation dialog box.

While decommissioning is in progress, a down arrow icon displays next to the port icon in the Product List. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the decommissioning is complete, an application event displays in the Master Log detailing success or failure.

### **Recommissioning all ports on a switch**

Select the switch or logical switch for which you want to recommission all ports in the Product List, and then select **Configure > Port Commissioning > Recommission > All F-Ports on the Switch**.

#### NOTE

You can only recommission ports from the logical switch, not the physical chassis.

While recommissioning is in progress, an up arrow icon displays next to the port icon in the Product List. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the recommissioning is complete, an application event displays in the Master Log detailing success or failure.

# Port commissioning by ICL QSFP ports

#### NOTE

Port commissioning by ICL QSFP ports is supported on the 16 Gbps and 32 Gbps 8-slot Backbone Chassis, 16 Gbps 4-slot, and 32 Gbps 12-slot Backbone Chassis of Brocade G620 and Gen6 Directors.

#### NOTE

Port commissioning by ICL QSFP ports is only available on the 16 Gbps and 32 Gbps Inter-Chassis Link (ICL) Quad Small Form-Factor Pluggable (QSFP) ports.

#### NOTE

All ports on the ICL QSFP must be managed by the Management application.

Although you can use any of the following methods to access the port commissioning commands for an ICL QSFP port, individual procedures only include one method.

- From the main menu, select the ICL port in the Product List or Topology, and then select Configure
   Port Commissioning > Decommission/Recommission > All ICL QSFP Ports.
- From the Product List, right-click the ICL port and select Decommission/Recommission > All ICL QSFP Ports.

- From the Topology, right-click the ICL port and select Decommission/Recommission > All ICL QSFP Ports.
- From a Dashboard widget, right-click the ICL port and select Decommission/Recommission > All ICL QSFP Ports.

### Decommissioning all ports on an ICL QSFP

 Select the ICL port for which you want to decommission all ports on the ICL QSFP in the Product List, and then select Configure > Port Commissioning > Decommission > All ICL QSFP Ports.

The Port Commission Confirmation dialog box displays.

2. Click OK on the Port Commission Confirmation dialog box.

While decommissioning is in progress, a down arrow icon displays next to the port icon in the Product List. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the decommissioning is complete, an application event displays in the Master Log detailing success or failure.

### **Recommissioning all ports on an ICL QSFP**

Select the ICL port for which you want to recommission all ports on the ICL QSFP in the Product List, and then select **Configure > Port Commissioning > Recommission > All ICL QSFP Ports**.

While recommissioning is in progress, an up arrow icon displays next to the port icon in the Product List. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the recommissioning is complete, an application event displays in the Master Log detailing success or failure.

# Port commissioning by blade

Although you can use any of the following methods to access the port commissioning commands for a blade, individual procedures only include one method.

- From the main menu, select the blade in the Product List or Topology, and then select Configure > Port Commissioning > Decommission/Recommission > All Ports on the Blade.
- From the Product List, right-click the blade and select Decommission/Recommission > All Ports on the Blade.
- From the Topology, right-click the blade and select Decommission/Recommission > All Ports on the Blade.
- From a Dashboard widget, right-click the blade and select Decommission/Recommission > All Ports on the Blade.

### Decommissioning all ports on a blade

### NOTE

(Virtual Fabrics only) All ports on the blade must be managed by the Management application.

#### NOTE

You must enable Lossless DLS on both the source and destination switches before you decommission an E\_Port.

#### NOTE

Fabric tracking must be enabled (refer to "Enabling fabric tracking" in the ) to maintain the decommissioned port details (such as port type, device port WWN, and so on). Do not accept changes in the Management application client.

#### NOTE

You can only recommission ports from the logical switch, not the physical chassis.

1. Select a port on the blade for which you want to decommission all ports in the Product List, and then select **Configure > Port Commissioning > Decommission > All Ports on the Blade**.

The Port Commission Confirmation dialog box displays.

- 2. Choose one of the following options:
  - Apply Default Settings (default): Select to have the Management application contact all
    registered CIMOM servers within the fabric affected by the action and obtain the status from each
    CIMOM server. If all CIMOM servers are reachable, the Management application sends a CAL
    request to decommission the port. If even one CIMOM server is not reachable, decommissioning
    fails.
  - Force: Select to force decommissioning on the N\_Port connected to the F\_Port. The Management
    application contacts all registered CIMOM servers within the fabric affected by the action, but
    forces the N\_Port decommissioning regardless of the CIMOM server response.

### NOTE

You cannot force decommissioning on an F\_Port.

#### NOTE

If any CIMOM server is not reachable or the credentials fail, port decommissioning does not occur.

3. Click **OK** on the **Port Commission Confirmation** dialog box.

While decommissioning is in progress, a down arrow icon displays next to the port icon in the Product List. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the decommissioning is complete, an application event displays in the Master Log detailing success or failure.

### Recommissioning all ports on a blade

#### NOTE

All ports on the blade must be managed by the Management application.

#### NOTE

You can only recommission ports from the logical switch, not the physical chassis.

Select a port on the blade for which you want to recommission all ports in the Product List, and then select **Configure > Port Commissioning > Recommission > All Ports on the Blade**.

While recommissioning is in progress, an up arrow icon displays next to the port icon in the Product List. You can view the port commissioning results in the deployment reports (refer to Viewing a port commissioning deployment report on page 28).

When the recommissioning is complete, an application event displays in the Master Log detailing success or failure.

# Port commissioning deployment results

The section explain the Port commissioning deployment results screen.

The Deployment Results screen contains the following data:

- Date and Time The date and time of the deployment.
- Export: Select to export the results to CSV or HTML (refer to Exporting and saving a report to a file on page 29).
- Email: Select to e-mail the results (refer to E-mailing a report on page 29).
- Configuration Name: The name of the deployment; for example, Decommission/Recommission switch\_name, Decommission/Recommission - switch\_name - blade, or Decommission/ Recommission - switch name - Ports.
- Product: The product name.
- · Status: The status of the deployment; for example, Success or Failed.
- Reason: The port level status of the decommission or recommission. Also, provides the following data for each CIMOM server associated with the port:
  - IP Address: The IP address of the CIMOM server.
  - Reason: The deployment request and whether or not it was successful.
  - Status: The status of the deployment; for example, Allowed or Failed.
- A list of any CIM errors that occurred during the port commissioning. Here are a couple of examples
  of the possible CIM errors in port commissiong; for example:
  - CIM\_ERR\_FAILED: A general error occurred that is not covered by a more specific error code.
  - CIM\_ERR\_ACCESS\_DENIED: Access to a CIM resource was not available to the client.
  - CIM ERR INVALID NAMESPACE: The target namespace does not exist.

### Viewing a port commissioning deployment report

To access a port commissioning deployment report, complete the following steps.

1. Select Configure > Task Scheduler.

The Task Scheduler dialog box displays.

2. Click the Log tab.

A list of executed deployment configurations and the status of each displays.

- 3. Select the port commissioning deployment report you want to view and click Report.
- 4. Review the contents of the port commissioning deployment report.

The Configuration Deployment Report contains the following data:

- · Date and Time: The date and time of the deployment.
- Export: Select to export the results to CSV or HTML (refer to Exporting and saving a report to a file on page 29).
- · Email: Select to e-mail the results (refer to E-mailing a report on page 29).
- Configuration Name: The name of the deployment; for example, Decommission/Recommission switch\_name, Decommission/Recommission - switch\_name - blade, or Decommission/ Recommission - switch\_name - Ports.
- · Description: A description of the deployment.
- · Module: The module name; for example, Port Commission.
- Sub Module: The sub-module name.
- Deployment Time: The time when the deployment occurred. Click to launch the detailed deployment results.
- · Status: The status of the deployment.
- Creator: The name of the user that performed the deployment. The Deployment Results contains the following data:

The Deployment Results contains the following data:

- Configuration Name: The name of the deployment; for example, Decommission/Recommission switch\_name, Decommission/Recommission - switch\_name - blade, or Decommission/ Recommission - switch\_name - Ports.
- Product: The product name.
- Status: The status of the deployment. For example, Success or Failed.
- Reason: The port level status of the decommission or recommission. Also, provides the following data for each CIMOM server associated with the port:
  - IP Address: The IP address of the CIMOM server.
  - Reason: The deployment request and whether or not it was successful.
  - Status: The status of the deployment; for example, Allowed or Failed.
- 5. Click the close button (X) to close the deployment report.

### Exporting and saving a report to a file

You can save a report to a comma-separated values (CSV) or HTML file. Each report has an **Export** list at the top-right corner of the page.

- 1. Select one of the following from the Export list:
  - Export as HTML
  - Export as CSV
- 2. Browse to the location where you want to save the file and click Save.

### **E-mailing a report**

You can e-mail a report in a comma-separated values (CSV) or HTML file. Each report has an **Email** list at the top-right corner of the page. To export reports to an e-mail recipient, you must configure e-mail event notification.

1. Select one of the following from the Email list:

- Email as HTML
- Email as CSV

The Report via E-mail dialog box displays.

2. Click the ellipsis button next to the E-mail Recipients field.

The Users dialog box displays.

- 3. Select the preconfigured e-mail user account from the list and click OK.
- 4. Enter additional e-mail addresses in the Other Recipients field.
- 5. Enter text in the Subject field to change the subject of the e-mail.
- 6. Enter text in the Body field to send a message with the report.
- 7. Click Send to send the report.

#### NOTE

The Mozilla Firefox Browser does not support the window close script. Click the browser close button (X) to cancel.

8. Browse to the location where you want to save the file and click Save.

# Troubleshooting with the cimcli command

Use the following sections to obtain data to support troubleshooting.

### **Obtaining FCPort and PCCUPort data**

To obtain CIMOM supporting documentation for troubleshooting, complete the following steps.

1. Log on to the TSO.

#### NOTE

You need a very large TSO user region size for the **cimcli** command.

- 2. From the ISPF Primary Option Menu, select option 6.
- Enter the TSO OMVS to open the z/OS USS shell.
- 4. Enter **cimcli execquery "select \* from IBMzOS\_FCPort**" to obtain the obtain the FICON channel FCPort control units known to CIMOM on a LPAR.
- Enter cimcli execquery "select \* from IBMzOS\_FCCUPort" to obtain the FICON channel DASD/ Tape (FCCUPort) control unit's known to CIMOM on a LPAR.

### IEE169I VARY REJECTED message

If you receive the "IEE169I VARY REJECTED, PATH(dddd,xx) OFFLINE DUE TO sss" message on the z/OS, use the "force" option to vary the path online as the IBM message text indicates.

### **Enabling the CIMOM trace file**

To enable the CIMOM trace file for troubleshooting, complete the following steps.

1. Open the CIMOM trace file (cimserver.env) in a text editor (such as Notepad).

The CIMOM trace file is located in the /etc/wbem/ directory.

#### NOTE

You must have superuser (SU) access to change the cimserver.env file.

```
2. Enable the trace file by changing the file in the following way: 
 \# \textsc{osbase\_TRACE=0}
```

```
#OSBASE_IRACE=0
#OSBASE_TRACE_FILE=/tmp/wbemosbase.trc
```

to

```
OSBASE_TRACE=4
OSBASE_TRACE_FILE=/tmp/wbemosbase.trc
```

### Capturing server and client supportSave data

To capture both server and client supportSave files, complete the following steps.

1. Select Monitor > Technical Support > SupportSave.

The SupportSave dialog box displays.

- 2. Select the Server SupportSave check box to run supportSave on the server.
- 3. Enter a file name for the server supportSave file in the File Name field.

The default file name is DCM-SS-Time\_Stamp.

- Select the Include Database check box to include the database in the support save and choose one of the following options:
  - Select the Partial (Excludes historical performance data and events) option to exclude historical performance data and events from the database capture.
  - Select the Full option to capture the entire database.

Clear the Include Database check box to exclude the database in the supportSave data.

- 5. Select the Client SupportSave check box to run supportSave on the client.
- 6. Enter a file name for the client supportSave file in the File Name field.

The default file name is DCM-Client-SS-Time\_Stamp.

- 7. Click OK on the SupportSave dialog box.
- 8. Click OK on the message.

A progress message displays with a list of the steps to be performed:

- · Capturing client supportSave
- · Capturing logs and server data
- Capturing partial/full database
- · Capturing data from the products

You cannot close the progress message and you cannot perform any other actions until the supportSave is complete.

The application generates separate master logs to show the status of the server and client supportSave collection.

You cannot change the destination directory for server and client supportSave. The following default directories are available:

- Server supportSave location: Install\_Home /support
- Client supportSave locations:
  - (Local client) User\_Home/Management\_Application\_Name /localhost/support
  - (Remote client) User\_Home/Management\_Application\_Name /Server IP/support

#### NOTE

Server supportSave initiated from the remote client is only available from a client installed on the server. However, you can copy the server supportSave from the **View Repository** dialog box (using the **Save** button) to the remote client location.



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