HP BladeSystem Onboard Administrator Command Line Interface User Guide

Abstract

This guide details using the command-line interface for configuration, operation, and management of the HP BladeSystem Onboard Administrator 4.20 (or later) and the enclosure Insight Display.



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Introduction

What's new

The following changes have been made to this guide, published with the release of Onboard Administrator firmware version 4.20:

- The ADD CA CERTIFICATE command restrictions were updated.
- The ADD LANGUAGE command description was updated.
- The ADD HPSIM CERTIFICATE command restrictions were updated.
- The ADD LDAP CERTIFICATE command restrictions were updated.
- The ADD OA ADDRESS IPV6 command restrictions were updated.
- The ADD REMOTE SUPPORT CERTIFICATE command restrictions were updated.
- The ADD SSHKEY command restrictions were updated.
- The ADD TRUSTED HOST command restrictions were updated.
- The DISABLE FQDN LINK SUPPORT command was added.
- The DISABLE IPV6 command description was updated.
- The DOWNLOAD CA CERTIFICATE command description and restrictions were updated.
- The DOWNLOAD CONFIG command description was updated.
- The DOWNLOAD HPSIM CERTIFICATE command description was updated.
- The DOWNLOAD LDAP CERTIFICATE command description and restrictions were updated.
- The DOWNLOAD OA CERTIFICATE command description and restrictions were updated.
- The DOWNLOAD REMOTE SUPPORT CERTIFICATE command description and restrictions were updated.
- The DOWNLOAD SSHKEY command description and restrictions were updated.
- The DOWNLOAD USER CERTIFICATE command restrictions were updated.
- The ENABLE FQDN LINK SUPPORT command was added.
- The ENABLE DHCPV6 command description and restrictions were updated.
- The ENABLE SLAAC command description and restrictions were updated.
- The GENERATE CERTIFICATE command description and restrictions were updated. The GENERATE CERTIFICATE prompts information for Alternative Name was updated.
- The GENERATE KEY command description and restrictions were updated.
- The PING command line, description, and restrictions were updated.
- The SET ALERTMAIL SENDERNAME command was added.
- The SET EBIPAV6 INTERCONNECT command line and restrictions were updated.

- The SET EBIPAV6 SERVER command line and restrictions were updated.
- The SET FACTORY command description was updated.
- The SET FIPS MODE command restrictions were updated.
- The SET FIRMWARE MANAGEMENT command restrictions were updated.
- The SET INTERCONNECT ADMIN PASSWORD FACTORY command was added.
- The SET INTERCONNECT FACTORY command was added.
- The SET OA GATEWAY command line, description, and restrictions were updated.
- The SET POWER SAVINGS command description and restrictions were updated.
- The SET USER CERTIFICATE restrictions were updated.
- The SHOW EBIPAV6 command example was updated.
- The SHOW NETWORK command description and example were updated.
- The SHOW OA NETWORK command restrictions and example were updated.
- The UPDATE IMAGE FW ISO command description was updated.
- The UPLOAD CONFIG command description was updated.
- The UPLOAD SUPPORTDUMP command description was updated.
- The UPLOAD SYSLOG command description was updated.

Accessing the command line interface

Remote access to the Onboard Administrator

The Onboard Administrator CLI can be accessed remotely through any Telnet or SSH session.

Telnet session

- 1. Open a command-line window from a network-connected client.
- At the prompt, telnet to the IP address of the Onboard Administrator and press Enter. For example, telnet 192.168.100.130, where the IP address is the address of your Onboard Administrator.
- Enter a valid user name and press Enter.
- Enter a valid password and press **Enter.** The CLI command prompt displays. 4.
- Enter commands for the Onboard Administrator.
- 6. To terminate the remote access telnet session, enter Exit, Logout, or Quit at the CLI command prompt.

SSH session

- Start a SSH session to the Onboard Administrator using any SSH client application.
- When prompted, enter the assigned IP address or DNS name of the Onboard Administrator and press Enter.
- 3. Enter a valid user name and press Enter.
- Enter a valid password and press **Enter.** The CLI command prompt displays.
- 5. Enter commands for the Onboard Administrator.
- To terminate the remote access SSH session, close the communication software or enter Exit, Logout, or Quit at the CLI command prompt.

Local access to the Onboard Administrator

The Onboard Administrator can be accessed locally through a serial port connector on the rear of the Onboard Administrator module. Use a laptop or another computer as a serial console to communicate with the Onboard Administrator. A laptop or PC connected to the Onboard Administrator serial port requires a null-modem cable. The minimum connection to an external console is pins 2, 3, and 5.

Connect a serial cable between the serial port on the computer and the corresponding serial port on the Onboard Administrator module. The following table is for the DB9 serial (RS232) port and shows the pinout and signals for the RS232 connector. The signal direction is DTE (computer) relative to the DCE (modem).

Pin	Name	Signal direction	Description
1	CD	<<	Carrier detect
2	RXD	<<	Receive data
3	TXD	->>	Transmit data

Pin	Name	Signal direction	Description
4	DTR	->>	Data terminal ready
5	GND		System ground
6	DSR	<<	Data set ready
7	RTS	->>	Request to send
8	CTS	<<	Clear to send
9	RI	<<	Ring indicator

Use any standard communication software to launch a terminal emulation session with the following 2. parameters:

Parameter	Value
Transmission rate	9600 bps
Data bits	8
Parity	None
Stop bits	1
Protocol	None

- When prompted, enter a valid user name, and then press Enter. 3.
- Enter a valid password, and press **Enter.** The CLI command prompt appears. 4.
- Enter commands for the Onboard Administrator. 5.
- To terminate the terminal session, enter Exit at the prompt. 6.

Command line

Command line overview

The CLI can be used as an alternative method for managing the Onboard Administrator. Using the CLI can be useful in the following scenarios:

- HP Management Applications (for example: Systems Insight Manager, Insight Control tools, and so on) can query the Onboard Administrator for information these tools need to present a complete management view of HP BladeSystem enclosures and the devices contained within. This interface is also used by the Management tools to execute provisioning and configuration tasks to devices within the enclosure.
- Users can develop tools that utilize Onboard Administrator functions for data collection and for executing provisioning and configuration tasks.
- When no browser is available or you prefer to use a Linux command line interface to access management data and perform configuration tasks.

Command line conventions

CLI input is case-insensitive except when otherwise noted. Commands are organized into a tree, with approximately 30 base commands. Each of these commands can have any number of subcommands. Subcommands can also have further subcommands.

Each command used in this guide follows the conventions listed in the following table.

Symbol	Description	
<lower case=""></lower>	Denotes the variable within the symbols that must be substituted with a value, such as a user name. Symbols must be removed.	
UPPER CASE	Denotes input to be entered as shown. Unless noted, symbols are not case-sensitive.	
	Used to separate input options.	
{ }	Denotes a list of mandatory choices that must be made. For example, SET ENCLOSURE UID {ON OFF} must be in the form of either of the following:	
	SET ENCLOSURE UID ON	
	SET ENCLOSURE UID OFF	
[]	Denotes an optional argument or set of characters.	
11 11	Used to enclose command arguments that contain spaces and special characters.	

Reserved words

The following words can only be used in specific situations with the Onboard Administrator CLI:

PASSWORD

TEST

Because these words indicate specific functions within the Onboard Administrator firmware, they are only allowed where explicitly defined in the help documentation for a command. Attempts to use reserved words in a command where not allowed results in an Invalid Arguments error.

A local user account cannot be created by using these reserved words.

HP Integrity server blade restrictions

HP Integrity server blades do not support all commands. See specific commands for restrictions on HP Integrity server blades.

The following commands are not applicable to HP Integrity server blades

- Hponcfg
- Set Server Boot
- Set Server Boot Once
- **Show Server Boot**
- Show Syslog Server
- Update iLO

Access level and privileges

Onboard Administrator accounts are created with a username, password, privilege level, and permissions to Device bays and Interconnect bays on the Onboard Administrator. You cannot delete or modify the privileges of the default Administrator account on the Onboard Administrator. You can only change the password for the Administrator account. The following table indicates the capabilities of the user based on their privileges and permitted bays.

Account classification	Capabilities	Account name / Privilege level	Bays selected for this account
Administrator	 All commands Local account, not LDAP Only account remaining after a reset Onboard Administrator to factory defaults (account retains configured Administrator password) Administrator account password can be reset to factory default through the Onboard Administrator serial port using L lost 	Administrator / administrator	All

Account classification	Capabilities	Account name / Privilege level	Bays selected for this account
	password recovery option Can download, add, and clear SSHKey. This key only works with the Administrator account.		
OA administrator	All commands Allows access to all aspects of the HP BladeSystem Enclosure and Onboard Administrator including configuration, firmware updates, user management, and resetting default settings.	username / administrator	OA bays (all bays automatically selected)
administrator	 Can perform all operations to permitted device bays and interconnect bays including virtual power and console access administrator permission on device iLO 	username / administrator	No OA bays and only selected device bays and interconnect bays
OA operator	Allows access to all aspects of the HP BladeSystem Enclosure and Onboard Administrator, with the exception of user management	username / operator	OA bays and can have other bays selected, but the capabilities for the other bays are defined in operator*
operator	Can perform all operations to permitted device bays and interconnect bays including virtual power and console access operator permission on device iLO	username / operator	Selected device bays and interconnect bays
OA user	Can view status and	username / user	OA bays and can have other

Account classification	Capabilities	Account name / Privilege level	Bays selected for this account
	information of enclosure Can view CLI history		bays selected, but the capabilities for the other bays are defined in user
user	 Can view status and information of selected bays Can view CLI history Can set password for own account Can set user contact information for own account Can show CLI commands 	username / user	No OA bays and some device bays and interconnect bays

^{*}EBIPA and VLAN features allow access to all bays for an OA operator.

Account authentication

Local users

- This is the default setting. Local user accounts are directly authenticated against a password for each account stored on the active Onboard Administrator.
- Account modifications are automatically synchronized between both Onboard Administrator modules
 if two are present.
- Local users may be disabled if LDAP is enabled, leaving the Administrator account as the only local account that cannot be disabled.

LDAP users

- The Enable/Disable LDAP is an optional setting. LDAP enabled can be used with local users enabled or disabled.
- The Onboard Administrator will use configured LDAP server and search context to request account authentication.
- Configuration of the LDAP group will determine the privileges instead of the username.
- If a user is configured for multiple groups with different privileges and bay permissions, then the user will have the highest privileges and the combination of all permitted bays.
- In version 2.10 or higher, if the user logged into the Onboard Administrator is an LDAP user then the Onboard Administrator enforces the iLO license and requires that the iLO have a Select license before allowing the AutoLogin to iLO.

AutoLogin to iLO

The following table indicates Onboard Administrator account privileges mapped to iLO privileges when using Onboard Administrator AutoLogin.

iLO privileges	administrator	operator	user
Administer user accounts	Х		
Remote console access	Х	Х	
Virtual power and reset	Х	Х	
Virtual media	Х	X	
Configure iLO settings	Х		
Login to iLO	Х	Х	X

General commands

CLEAR SCREEN

Command:

CLEAR SCREEN

Description:

Clears the terminal screen

Access level:

Administrator, Operator, User

EXIT

Command:

EXIT

Description:

Exits the command line interpreter

Access level:

Administrator, Operator, User

HELP

Command:

HELP <command>

Description:

If you supply a command, the usage and help text for the command appears. If no argument is given, all base commands appear.

Access level:

Administrator, Operator, User

Example:

OA-0018FE27577F> HELP

ADD | ASSIGN | CLEAR | CONNECT | DISABLE | DISCOVER | DOWNLOAD | EDIT | ENABLE | EXIT | FORCE | GENERATE | HELP | HISTORY | HPONCFG | LOGOUT | PING | POWEROFF | POWERON | QUIT | REBOOT | REMOVE | RESET | RESTART | SAVE | SEND | SET | SHOW | SLEEP | TEST | UNASSIGN | UPDATE | UPLOAD

Command:

LOGOUT

Description:

Exits the command line interpreter

Access level:

Administrator, Operator, User

QUIT

Command:

QUIT

Description:

Exits the command line interpreter

Access level:

Administrator, Operator, User

Rack commands

SET RACK NAME

Command:

SET RACK NAME < rack name >

Description:

Sets the rack name

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The <rack name> must be a maximum of 32 characters long and includes all alphanumeric, the dash, and the underscore characters.

UnnamedRack is the default rack name.

SHOW RACK INFO

Command:

SHOW RACK INFO

Description:

Displays the rack information for the enclosure

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA-0018FE27577F> SHOW RACK INFO

Rack Information:

Product Description: ASSY, RACK 10642 G2

Part Number: 383573-001 Rack Identifier: 2UJ848000H

Rack U Height: 42

Or

Location hardware not found (No hardware support)

Or

Location data error (Hardware support available – invalid data)

SHOW RACK NAME

Command:

SHOW RACK NAME

Description:

Displays the user defined rack name setting for the enclosure

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA-0018FE27577F> SHOW RACK NAME

Rack Name: UnnamedRack

SHOW TOPOLOGY

Command:

SHOW TOPOLOGY [IPV6]

Description:

- Displays information about the enclosures connected by the enclosure link
- o Displays a table with the enclosure name, UUID, Enclosure Rack U Position, overall health of the enclosure, and the IP address
- Displays IPv4 information by default. To display IPv6 information, enter the IPV6 keyword

Access level/Bay level

Αll

Restrictions:

To display IPv6 address and address type only, use the IPv6 keyword.

Example:

OA-0018FE2F6941> show topology

Detecting linked enclosures ..

Rack Topology (top-down)

Rack UUID: 09USE818AMMP

Rack Name: r12

Enclosure Name Rack U Position	Status	Local	IP Address	UUID	
USE818AMMP	OK	Yes	172.16.1.58	09USE818AMMP	6
USE812AMMP	OK	No	172.16.1.59	09USE812AMMP	
hardware not found					

OK No 172.16.1.60 09USE813AMMP USE813AMMP

--data error--

OA-E4115BECFBAB> SHOW TOPOLOGY IPV6

Detecting linked enclosures

Rack Topology (top-down)

Rack UUID: 09SGH211PHT1

Warning! Enclosures have different rack names!

Enclosure Name Rack Name

OA-E83935AC65EF UnnamedRack 1234567890 Rack103

IP Address Enclosure Name Local

OA-E83935AC65EF

2001:acdc:aabb:bbcc:ccdd:dddd:eeee:183

1234567890

2001:acdc:aabb:bbcc:ccdd:dddd:eeee:163

User account commands

ADD USER

Command:

ADD USER "<user name>" ["<password>"]

Description:

Adds a user to the system. If you do not provide a password, you are prompted for one. If SCRIPT MODE is enabled and the password is not provided, the password is assigned an unmatched string. This unmatched string requires an enclosure administrator to change the password to allow the new user to access the system.

Access level/Bay level:

OA administrator

Restrictions:

- You can add a maximum of 30 users, including the reserved accounts.
- The <user name> is case sensitive and must be unique to all other user names and group names. The <user name> must be 1 to 40 characters long and can include all alphanumeric characters, the dash, and the underscore.
- The <user name> must begin with a letter.
- The <password> must be three to eight characters long for firmware 1.00 through 1.30 and 3 to 40 characters long for firmware 2.00 and later. The character set includes all printable characters. If you do not enter a password, you are prompted to enter one.
- Reserved user names are: ALL (case insensitive) ADMINISTRATOR (case insensitive), switch1, switch2, switch3, switch4, switch5, switch6, switch7, switch8, ldapuser, and nobody.

ASSIGN

Command:

ASSIGN {SERVER | INTERCONNECT} {<bay number> | ALL | <bay number>-<bay number>} {"<user name>" | LDAP GROUP "<LDAP group name>"} *OR* ASSIGN OA {"<user name>" | LDAP GROUP "<LDAP group name>"}

Assigns one or more bays to a user or group

Access level/Bay level:

OA administrator

Restrictions:

The <user name> is case sensitive. If a bay is presently assigned to a user, you must unassign the bay first.

ASSIGN OA

Command:

ASSIGN OA {"<user name>" | LDAP GROUP "<LDAP group name>"}

Description:

Assigns the Onboard Administrators specified to an existing user or group

Access level/Bay level:

OA administrator

Restrictions:

The <user name> is case sensitive.

DISABLE USER

Command:

DISABLE USER "<user name>"

Description:

Disables a user account. The system immediately logs out the user and prevents the user from logging in until the account is enabled. CLI sessions are terminated and all future SOAP web accesses fail.

Access level/Bay level:

OA administrator

Restrictions:

- The <user name> is case sensitive.
- You cannot disable the built-in Administrator account

DISABLE STRONG PASSWORDS

Command:

DISABLE STRONG PASSWORDS

Description:

Removes strong password requirements for user passwords

Access level/Bay level:

OA administrator

Restrictions:

- Only Administrators with Onboard Administrator permission are allowed to manage strong
- You cannot disable strong passwords when in FIPS Mode ON/DEBUG.

ENABLE STRONG PASSWORDS

Command:

Description:

When enabled, this command requires that a user's password contain at least one character from three of the four categories.

The four categories include:

- Uppercase
- Lowercase
- Numeric
- Nonalphanumeric

Access level/Bay level:

OA administrator

Restrictions:

- Only Administrators with Onboard Administrator permission are allowed to manage strong passwords.
- Strong passwords are enabled by default in FIPS Mode ON/DEBUG.

ENABLE USER

Command:

ENABLE USER "<user name>"

Description:

Enables a user account that was previously disabled by the DISABLE USER command

Access level/Bay level:

OA administrator

Restrictions:

The <user name> is case sensitive.

HISTORY

Command:

HISTORY

Description:

Shows the history of commands for the current session

Access level/Bay level:

Αll

Restrictions:

None

REMOVE USER

Command:

```
REMOVE USER {ALL | "<user name>" | CERTIFICATE "<user name>"}
```

Description:

Removes a user from the system and/or any certificate mapped to the user. If you specify ALL, then the command is run for all users except the default system accounts.

Access level/Bay level:

OA administrator

Restrictions:

- The <user name> is case sensitive.
- You cannot remove the Administrator account.

SET MINIMUM PASSWORD LENGTH

Command:

SET MINIMUM PASSWORD LENGTH < length>

Description:

Sets a minimum length for passwords. When set, a user's password must contain at least the number of characters specified.

Access level/Bay level:

OA administrator

Restrictions:

- The minimum password length can be set between 3 and 40 characters.
- In FIPS Mode ON/DEBUG, the minimum password length can be set between 8 and 40 characters.

SET PASSWORD

Command:

```
SET PASSWORD ["<password>"]
```

Description:

Sets the password of the user that executed the command. If you do not provide a password on the command line, you are prompted for one.

Access level/Bay level:

Αll

Restrictions:

 The <password> must be 3 to 8 characters long for firmware 1.00 through 1.30 and 3 to 40 characters long for firmware 2.00 and later. When in FIPS Mode ON/DEBUG, the password length must be between 8 and 40 characters. The minimum password length setting may be overwritten through the SET MINIMUM PASSWORD LENGTH command.

When in FIPS Mode OFF, the character set includes all printable characters. When in FIPS Mode ON/DEBUG, the password must contain at least one character from three of the four types of characters. The four types are upper-case, lower-case, numeric, and non-alphanumeric.

SET SESSION TIMEOUT

Command:

SET SESSION TIMEOUT <timeout>

Description:

Sets the number of minutes before inactive sessions are removed. The default setting is 1440.

Access level/ Bay level:

OA administrator

Restriction:

Valid session timeout values range from 10 to 1440 minutes (24 hours).

SET USER ACCESS

Command:

```
SET USER ACCESS "<user name>" {ADMINISTRATOR | OPERATOR | USER}
```

Description:

Sets the user access level. Additionally, use the ASSIGN command to give the user access rights to the Onboard Administrator, server bays, and interconnect bays.

Access level/Bay level:

OA administrator

Restrictions:

None

SET USER CONTACT

Command:

```
SET USER CONTACT ["<user name>"] "<contact info>"
```

Description:

Sets the contact information field for the user. If there is no <user name>, the command modifies the contact information of the user who executed the command.

Access level/Bay level:

- All users can modify their own contact information.
- The OA administrator can modify all users.

Restrictions:

- The <user name> is case sensitive. The <contact info> must be a maximum of 20 characters long and includes all alphanumeric characters, the dash, the underscore, and spaces.
- The default contact information is blank.

You must use double quotes if the contact information contains any spaces.

SET USER FULLNAME

Command:

```
SET USER FULLNAME ["<user name>"] "<full name>"
```

Description:

Sets a user's full name. If you do not specify a <user name>, then the command modifies the full name of the user who is currently logged in.

Access level/Bay level:

- OA administrator
- All users can modify their own full name.

Restrictions:

- The <user name> is case sensitive. The <full name> must be a maximum of 20 characters long and includes all alphanumeric, the dash, the underscore, and the space characters.
- The default full name is blank.

SET USER PASSWORD

Command:

```
SET USER PASSWORD "<user name>" ["<new password>"]
```

Description:

Sets a user's password. If you do not supply a password on the command line, you are prompted for one.

Access level/Bay level

OA administrator

OA operator and User access level users can change their own passwords.

Restrictions:

- Only OA administrators can modify another user's password. Only the Administrator account can modify the password of the Administrator account.
- The <user name> is case sensitive.
- The <password> must be 3 to 8 characters long for firmware 1.00 through 1.30 and 3 to 40 characters long for firmware 2.00 and later. When in FIPS Mode ON/DEBUG, the password length must be between 8 and 40 characters. The minimum password length setting may be overwritten through the SET MINIMUM PASSWORD LENGTH command.
- When in FIPS Mode OFF, the character set includes all printable characters. When in FIPS Mode ON/DEBUG, the password must contain at least one character from three of the four types of characters. The four types are upper-case, lower-case, numeric, and non-alphanumeric.

SHOW PASSWORD SETTINGS

Command:

Description:

Displays the current minimum password length and strong password settings

Access level/Bay level:

All users

Restrictions:

None

Example:

```
OA-0018FE27577F>SHOW PASSWORD SETTINGS
Strong Passwords: Disabled Minimum Password Length: 3
```

SHOW SESSION TIMEOUT

Command:

SHOW SESSION TIMEOUT

Description:

Displays the current Onboard Administrator user session timeout. The session timeout is the number of minutes before inactive sessions are removed.

Access level/Bay level:

Αll

Restriction:

None

Example:

```
>SHOW SESSION TIMEOUT
Session Timeout: 1440 minutes
```

SHOW USER

Command:

```
SHOW USER [LIST | "<user name>"]
```

Description:

- o Displays the user's full name, contact information, access rights, account status, and bays that the
- \circ If you enter LIST and you are an OA administrator, the information for every user is listed. An asterisk before a user name denotes the current user.
- o If a user name or LIST are not entered, information for the current user is displayed.

Access level/Bay level:

Αll

Restrictions:

The <user name> is case sensitive.

• Users who do not have OA administrator access levels can only view their user information.

Example:

```
OA-0018FE27577F> SHOW USER
Local User "Administrator" Information:
        Full name: System Administrator
        Contact Info:
        User Rights: Admin
        Account Status: Enabled
        Server Bay Access List: 1 1A 1B 2 2A 2B 3 3A 3B 4 4A 4B 5 5A 5B 6
6A 6B
7 7A 7B 8 8A 8B
        Interconnect Bay Access List: 1 2 3 4
        OA Access: Yes
```

SLEEP

Command:

SLEEP <seconds>

Description:

Pauses the sessions for a fixed period of time. This command is useful for adding delays to scripts.

After the pause has started, you cannot continue the session before time runs out. However, you can terminate the session and start another session.

Access level/Bay level:

Αll

Restrictions:

The <seconds> field must be a whole number from 1 to 86400.

UNASSIGN

Command:

```
UNASSIGN {SERVER | INTERCONNECT} {<bay number> | ALL | <bay number>-<bay
number>} {"<user name>" | LDAP GROUP "<LDAP group name>"} *OR* UNASSIGN OA
{"<user name>" | LDAP GROUP "<LDAP group name>"}
```

Description:

Removes a bay from the user

Access level/Bay level:

OA administrator

Restrictions:

The <user name> is case sensitive.

UNASSIGN OA

Command:

UNASSIGN {SERVER | INTERCONNECT} {<bay number> | ALL | <bay number>-<bay number>} {"<user name>" | LDAP GROUP "<LDAP group name>"} *OR* UNASSIGN OA {"<user name>" | LDAP GROUP "<LDAP group name>"}

Description:

Removes the Onboard Administrator from the control of the user that it is currently assigned

Access level/Bay level:

OA administrator

Restrictions:

The <user name> is case sensitive.

Two-Factor Authentication commands

ADD CA CERTIFICATE

Command:

ADD CA CERTIFICATE <end marker> <\n> <certificate> <\n> <end marker>

Description:

Adds a CA certificate on the command line. To add the certificate:

- Start with a string that does not appear within the certificate (the end marker).
- b. Insert a newline character by pressing Enter.
- Paste in the certificate.
- d. Insert a newline character by pressing Enter.
- e. Insert the end marker.
- Issue the command by pressing **Enter**.

Failure to give a proper end marker before and after the certificate might cause the interface to wait for the appropriate end marker indefinitely.

Access level/Bay level:

OA administrator

Restrictions:

- This command is only available in script mode.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

DISABLE CRL

Command:

DISABLE CRL

Description:

Disables certificate revocation checks

Access level/Bay level:

OA administrator

Restrictions:

None

DISABLE TWOFACTOR

Command:

Description:

Disables Two-Factor Authentication

Access level/Bay level:

OA administrator

Restrictions:

None

DOWNLOAD CA CERTIFICATE

Command:

DOWNLOAD CA CERTIFICATE "<url>"

Description:

- Downloads a CA certificate to act as the trusted certification authority to validate user certificates when using Two-Factor Authentication.
- Specify a URL where this certificate can be found.
- Supported protocols are HTTP, FTP, and TFTP.
- Format the URL as protocol://host/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.

Access level/Bay level:

OA administrator

Restrictions:

- Allows the download of up to five different certificates.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

DOWNLOAD USER CERTIFICATE

Command:

DOWNLOAD USER CERTIFICATE "<user name>" <url>

Description:

- Downloads an x.509 certificate for the user from <url>
 The file at <url>
 must be a Base64 PEM encoded file.
- Downloads a CA certificate used in Two-Factor Authentication.

Access level/Bay level:

OA administrator

Restrictions:

When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

REMOVE CA CERTIFICATE

Command:

REMOVE CA CERTIFICATE "<certificate name>"

Description:

Removes the trust certificate corresponding to the SHA1 <certificate name>. Any users having their certificates issued by this CA can no longer login if Two-Factor Authentication is enabled.

Access level/Bay level:

OA administrator

Restrictions:

None

REMOVE USER CERTIFICATE

Command:

REMOVE USER CERTIFICATE "<user name>"

Description:

Removes the user certificate. If Two-Factor Authentication is enabled, this user no longer has access through HTTPS.

Access level/Bay level:

OA administrator

Restrictions:

None

SET USER CERTIFICATE

Command:

SET USER CERTIFICATE "<user name>" <end marker> <\n> <certificate> <\n> <end marker>

Description:

Maps a certificate (for certificate-based authentication) to the specified Onboard Administrator user account. To add the certificate:

- Start with a string that does not appear within the certificate (the end marker).
- b. Insert a newline character by pressing Enter.
- c. Paste in the certificate.
- d. Insert a newline character by pressing Enter.
- e. Insert the end marker.
- f. Issue the command by pressing Enter.

Failure to give a proper end marker before and after the certificate might cause the interface to wait for the appropriate end marker indefinitely.

Access level/Bay level:

OA administrator

Restrictions:

- This command is only available in script mode.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

SHOW CA CERTIFICATES

Command:

SHOW CA CERTIFICATES

Description:

Displays a list of installed CA certificates

Access level/Bay level:

OA Administrator

Restrictions:

None

Example:

```
OA-0016355E560A> SHOW CA CERTIFICATE
Details for ca certificate 1
issuerOrganizationalUnit = IT Infrastructure
issuerCommonName
                      = Hewlett-Packard Primary Class 2 Certification
Authority
subjectOrganization = hp.com
subjectOrganizationalUnit = IT Infrastructure
subjectCommonName = Hewlett-Packard Primary Class 2 Certification
Authority
validFrom
                       = 1997-12-30T00:00:00Z
validTo
                        = 2012-12-29T23:59:59Z
serialNumber
=83:B7:1B:E9:27:AB:5C:61:F8:8F:90:30:E:0D:17:DE:C6
extensionCount = 7
md5Fingerprint
B6:22:5B:B8:43:CD:1A:66:64:19:33:B:3:C1:80:BF:B6
sha1Fingerprint
CF:5C:89:7B:84:7B:73:C4:C5:3E:3F:E:7:93:09:53:EB:C4:28:BE:CF
```

SHOW TWOFACTOR INFO

Command:

SHOW TWOFACTOR INFO

Description:

Displays the configuration details for Two-Factor Authentication

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA-0018FE27577F> SHOW TWOFACTOR INFO

Two Factor Authentication:

Enabled : Disabled Certificate Revocation : Disabled Certificate Owner Field : Subject

Directory commands

ADD LDAP CERTIFICATE

Command:

ADD LDAP CERTIFICATE <end marker> <\n> <certificate> <\n> <end marker>

Description:

Adds an LDAP certificate on the command line. To add the certificate:

- Start with a string that does not appear within the certificate (the end marker).
- b. Insert a newline character by pressing Enter.
- Paste in the certificate.
- Insert a newline character by pressing Enter.
- Insert the end marker.
- Issue the command by pressing **Enter**.

Failure to give a proper end marker before and after the certificate might cause the interface to wait for the appropriate end marker indefinitely.

Access level/Bay level:

OA administrator

Restrictions:

- The certificate text cannot exceed 3071 characters.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

ADD LDAP GROUP

Command:

ADD LDAP GROUP "<group name>"

Description:

Adds an LDAP group to the group. This group must match a group in the directory server.

Access level/Bay level:

OA administrator

Restrictions:

- The maximum number of LDAP groups is 30.
- Group name must be 1 to 255 characters in length.
- Character set includes all printable characters, except quotation marks and new lines.
- The group name must start with an alpha character.

ASSIGN for LDAP

Command:

ASSIGN {SERVER | INTERCONNECT} {<bay number> | ALL | <bay number>-<bay number>} {"<user name>" | LDAP GROUP "<LDAP group name>"} *OR* ASSIGN OA {"<user name>" | LDAP GROUP "<LDAP group name>"}

Description:

Assigns the bay to a specified LDAP group, providing access to the bay at the access level of the group

Access level/Bay level:

OA administrator

Restrictions:

None

ASSIGN OA LDAP GROUP

Command:

```
ASSIGN OA {"<user name>" | LDAP GROUP "<LDAP group name>"}
```

Description:

Assigns access to the Onboard Administrator to the specified group

Access level/Bay level:

OA administrator

Restrictions:

None

DISABLE LDAP

NOTE: If LDAP is enabled, local accounts are disabled, and the LDAP server becomes unavailable, you can recover by booting into Lost Password mode.

When booting in Lost Password mode, the local Administrator password will be reset, LDAP is disabled, and Local Logins are re-enabled

Command:

DISABLE LDAP

Description:

- Disables directory authentication
- Access level/Bay level:

OA administrator

Restrictions:

None

DOWNLOAD LDAP CERTIFICATE

Command:

DOWNLOAD LDAP CERTIFICATE "<url>"

Description:

- Downloads an LDAP certificate to establish a trusted relationship with the LDAP server.
- The <url> specifies the location of the certificate to be downloaded.
- Supported protocols are HTTP, FTP, and TFTP.
- Format the URL as protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, then you can specify a user name and password in the format ftp://username:password@host/path/file.

Access level/Bay level:

OA administrator

Restrictions:

When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

ENABLE LDAP

NOTE: If LDAP is enabled, local accounts are disabled, and the LDAP server becomes unavailable, you can recover by booting into Lost Password mode.

When booting in Lost Password mode, the local Administrator password will be reset, LDAP is disabled, and Local Logins are re-enabled

Command:

ENABLE LDAP [NOLOCAL]

Description:

Enables directory authentication. If you use the NOLOCAL option, local users are not enabled.

Access level/Bay level:

OA administrator

Restrictions:

Before you can enable LDAP, configuration must be complete.

REMOVE LDAP CERTIFICATE

Command:

REMOVE LDAP CERTIFICATE "<certificate name>"

Description:

Removes the trust certificate corresponding to the MD5 <certificate name>.

This command revokes trust in the LDAP server associated with the certificate.

Access level/Bay level:

OA administrator

Restrictions:

None

REMOVE LDAP GROUP

Command:

```
REMOVE LDAP GROUP {ALL | "<group name>"}
```

Description:

Removes the LDAP group from the system. If you specify ALL, then all LDAP groups are removed from the system.

Access level/Bay level:

OA administrator

Restrictions:

Before you can enable the LDAP group, configuration must be complete.

SET LDAP GROUP ACCESS

Command

```
SET LDAP GROUP ACCESS "<group name>" {ADMINISTRATOR | OPERATOR | USER}
```

Description:

- Sets the LDAP group access level.
- o Additionally, use the ASSIGN OA command to give a user or group rights to the Onboard Administrator.

Access level/Bay level:

OA administrator

Restrictions:

None

SET LDAP GROUP DESCRIPTION

Command:

```
SET LDAP GROUP DESCRIPTION "<group name>" "<description>"
```

Description:

Sets the LDAP group description field

Access level/Bay level:

OA administrator

Restrictions:

- Must be 0 to 58 characters in length.
- Valid characters are all alphanumeric, the underscore (_), the dash (-), and spaces.
- If the group name or description field contains spaces or zero characters, use double quotes.

SET LDAP NAME MAP

Command:

```
SET LDAP NAME MAP {ON|OFF}
```

Description:

Turns on NT name mapping to enable the user to enter their NT domain\username

Access level/Bay level:

OA administrator

Restrictions:

None

SET LDAP GCPORT

Command:

```
SET LDAP GCPORT { <port number> | NONE }
```

Description:

Sets the TCP port number of the LDAP Global Catalog SSL service. Port 3269 is the standard value.

Access level/Bay level:

OA administrator

Restrictions:

The valid port number range is 1 to 65535.

SET LDAP PORT

Command:

```
SET LDAP PORT { <port number> | NONE }
```

Description:

Sets the TCP port number of the LDAP SSL service. Port 636 is the standard value.

Access level/Bay level:

OA administrator

Restrictions:

The valid port number range is 1 to 65535

SET LDAP SEARCH

Command:

SET LDAP SEARCH {1-6 } "<search content>"

Description:

Sets up to six search contexts in priority order

Access level/Bay level:

OA administrator

Restrictions:

None

SET LDAP SERVER

Command:

```
SET LDAP SERVER {<ip address> | <dns name> | NONE }
```

Description:

- Sets the IP address or the DNS name of the LDAP server used for authentication.
- To set the LDAP server field to blank, use keyword NONE.

Access level/Bay level:

OA administrator

Restrictions:

<ip address> can be either an IPv4 address or an IPv6 address. IPv6 addresses must be informed without the network prefix length.

- o IPv4 address—###.###.###.## where ### ranges from 0 to 255
- IPv6 address—###:####:####:####:####:######### where #### ranges from 0 to FFFF. A compressed version of the same IPv6 address is also supported.

SHOW LDAP CERTIFICATE

Command:

SHOW LDAP CERTIFICATE

Description:

Displays all LDAP certificates that are in effect on the Onboard Administrator

Access level/Bay level:

OA administrator

Restrictions:

None

Example:

```
OA-0016355E560A> SHOW LDAP CERTIFICATE
1 Certificate name: 17D6A5ECBF51A1A47D44C1CDD29D19EE.pem
----BEGIN CERTIFICATE----
```

MIIHIzCCBquqAwIBAqIKFTKZbQAAAFx1EDANBqkqhkiG9w0BAQUFADB4MRMwEQYK CZImiZPyLGQBGRYDbmV0MRcwFQYKCZImiZPyLGQBGRYHY3BxY29ycDEbMBkGCqmS JomT8ixkARkWC2FzaWFwYWNpZmljMSswKQYDVQQDEyJIUFEgSXNzdWluZyBDQSBB c21hLVBhY21maWMgUmVnaW9uMB4XDTA3MTAyMDIyMzU0M1oXDTA5MTAxOTIyMzU0

M1owKTEnMCUGA1UEAxMeY2N1Z2NhbTAxLmFtZXJpY2FzLmhwcWNvcnAubmV0MIGf MAOGCSqGSIb3DQEBAQUAA4GNADCBiQKBqQDNYsB8T6rJhJQXbKvM5JLi6EXNAtFL ayV11QVyrtjRtOjRGySwFCk9KNzRS7PIP/p9gH20Ic+ZvgX0fRPnnU/2imMeTGr2 raIYGRSFBJ4sCpAP87m/7Hzk0kiyZ+7KJq92Q61Pipkea..... ----END CERTIFICATE----

SHOW LDAP GROUP

Command:

```
SHOW LDAP GROUP {LIST | "<group name>"}
```

Description:

This command displays the LDAP group information. If you specify LIST, then a list of all the LDAP groups appears.

Access level/Bay level:

OA administrator, OA operator, OA user

Restrictions:

None

Example:

```
OA-0018FE27577F> SHOW LDAP GROUP LIST
Privilege LDAP Group /
Level Description
Operator Widget.OPS.Team@hp.com
             Widget operators
```

SHOW LDAP INFO

Command:

SHOW LDAP INFO

Description:

Displays the LDAP settings, including enabled or disabled status, LDAP server, LDAP port, search contexts, and NT mapping state

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE27577F> show ldap info
Directory Services (LDAP)
          : Disabled
Local Users Enabled : Enabled
NT Name Mapping : Disabled
Directory Server :
Directory Server :
          Search Context #1
          Search Context #2
          Search Context #3
```

```
Search Context #4
Search Context #5
Search Context #6
```

TEST LDAP

Command:

TEST LDAP "<username>" "<password>"

Description:

Run LDAP tests and optionally attempt to login to the LDAP server using the username and password.

Access level/Bay level:

OA administrator

Restrictions:

None

UNASSIGN for LDAP

Command:

UNASSIGN {SERVER | INTERCONNECT} {<bay number> | ALL | <bay number>-<bay number>} {"<user name>" | LDAP GROUP "<LDAP group name>"} *OR* UNASSIGN OA {"<user name>" | LDAP GROUP "<LDAP group name>"}

Description:

Disables access to the bays for the group specified

Access level/Bay level:

OA administrator

Restrictions:

None

UNASSIGN OA LDAP GROUP

Command:

UNASSIGN OA {"<user name>" | LDAP GROUP "<LDAP group name>"}

Description:

Disables access to the Onboard Administrator for the group specified

Access level/Bay level:

OA administrator

Restrictions:

None

HP SIM commands

ADD HPSIM CERTIFICATE

Command:

ADD HPSIM CERTIFICATE <end marker> <\n> <certificate> <\n> <end marker>

Description:

Adds an HP SIM certificate on the command line. To add the certificate:

- Start with a string that does not appear within the certificate (the end marker).
- b. Insert a newline character by pressing Enter.
- Paste in the certificate.
- Insert a newline character by pressing Enter.
- Insert the end marker.
- Issue the command by pressing **Enter**.

Failure to give a proper end marker before and after the certificate might cause the interface to wait for the appropriate end marker indefinitely.

Access level/Bay level:

OA administrator

Restrictions:

- This command is only available in script mode.
- The certificate text cannot exceed 3071 characters.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

DOWNLOAD HPSIM CERTIFICATE

Command:

DOWNLOAD HPSIM CERTIFICATE { <host> }

Description:

- Downloads an HP SIM certificate from the specified IP address or fully-qualified DNS system name (for example, nwest-office.acme.com).
- The <host> value can be an IPv4 address, an IPv6 address, or a DNS name.
- For IPv4, specify the address in the form ###.###.###, where each ### ranges from 0 to 255.
- For IPv6, specify the address in the form ###:###:###:###:###:###:###:###; where each #### ranges from 0 to FFFF.

Access level/Bay level:

OA administrator

Restrictions:

- Do not include the network prefix length with IPv6 addresses.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.
- Onboard Administrator 4.11 and later contains HP SSO application support for determining the minimum SSO certificate requirements.

REMOVE HPSIM CERTIFICATE

Command:

REMOVE HPSIM CERTIFICATE "<certificate name>"

Description:

Removes the trust certificate corresponding to the <certificate name>. Disables HP SIM SSO through the application (for example HP SIM) that provided the certificate without disabling other HP SIM applications.

The <certificate name> can be obtained using the SHOW HPSIM INFO command.

Access level/Bay level:

OA administrator

Restrictions:

None

SET HPSIM TRUST MODE

Command:

SET HPSIM TRUST MODE {CERTIFICATE [ON] | DISABLED [OFF]}

Description:

Enables or disables the HP SIM SSO mode. When enabled, the trusted applications can access the Onboard Administrator GUI data without requiring additional authentication.

Access level/Bay level:

OA administrator

Restrictions:

The CERTIFICATE (On) mode trusts only applications with certificates that have been uploaded to the Onboard Administrator.

SHOW HPSIM INFO

Command:

SHOW HPSIM INFO

Description:

Displays the current HP SIM SSO configuration for the Onboard Administrator.

The data includes the current HP SIM SSO Trust Mode (see SET HPSIM TRUST MODE) and a list of names that the Onboard Administrator is configured to trust using a trust certificate.

Access level/Bay level:

OA administrator

Restrictions:

None

Example:

OA-0018FE27577F> SHOW HPSIM INFO HPSIM Trust Mode: Disabled Trusted Server Certificates No certificates were found.

General management commands

DISABLE URB

Command:

DISABLE URB

Description:

Disables URB reporting.

Access level/Bay level:

OA Administrator, OA Operator

Restrictions:

None

Example:

OA-0018FE27577F> disable urb Utility Ready Blade (URB) reporting has been disabled.

DOWNLOAD OA CERTIFICATE

Command:

DOWNLOAD OA CERTIFICATE [<bay number> | ACTIVE | STANDBY] <url>

Description:

- Downloads a CA supplied pkcs#7 file to replace the current security certificate on the system.
- If the bay number is not specified, the certificate is generated for the current Onboard Administrator.
- Specify a URL where this certificate can be found.
- Supported protocols are HTTP, FTP, and TFTP.
- Format the URL as protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.

Access level/Bay level:

OA administrator

Restrictions:

When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

ENABLE URB

Command:

ENABLE URB { HTTP | SMTP | BOTH }

Description:

Enables URB reporting

Access level/Bay level:

OA Administrator, OA Operator

Restrictions:

The URB URL and interval must be set before enabling URB reporting.

Example:

OA-0018FE275723> enable urb Utility Ready Blade (URB) reporting has been enabled.

FORCE TAKEOVER

Command:

FORCE TAKEOVER

Description:

Forces the redundant Onboard Administrator to become the active Onboard Administrator. The active becomes the standby and the standby becomes the active.

Access level/Bay level:

OA administrator

Restrictions:

None

GENERATE CERTIFICATE

Command:

GENERATE CERTIFICATE [REQUEST | SELFSIGNED]

Description:

- Generates a pkcs#10 certificate request or a self-signed certificate. You are prompted for the following fields to generate a certificate:
 - OA Host Name (CN)
 - Organization Name (O)
 - City or Locality (L)
 - State or Province (ST)
 - Country (C)
 - Organizational Unit
 - Contact Person

- Email Address
- Surname
- Given Name
- Alternative Name
- Initials
- DN Qualifier
- Challenge Password
- Unstructured Name
- The Alternative Name field is used to create the X509v3 Subject Alternative Name extension attribute. The field must be empty or contain a list of keyword:value pairs separated by commas. The valid keyword:value entries include IP:<ip address> and DNS:<domain name>.

Access level/Bay level:

OA administrator

Restrictions:

This command is not valid in SCRIPT MODE.

GENERATE CERTIFICATE prompts

Prompt	Description	Restrictions
OA Host Name (CN)	This is the most important field. This is the Onboard Administrator name that appears in the browser web address field. This certificate attribute is generally referred to as the common name.	Must be 1 to 60 characters long. To prevent security alerts, the value of this field must match the host name exactly as it is known by the web browser. The browser compares the host name in the resolved web address to the name that appears in the certificate. For example, if the web address in the address field is https://oa-001635.xyz.com, then the value must be oa-001635.xyz.com.
Organization Name (O)	The company or organization that owns this Onboard Administrator. When this information is used to generate a certificate signing request, the issuing certificate authority can verify that the organization requesting the certificate is legally entitled to claim ownership of the given company name or organization name.	Must be 1 to 60 characters long.
City or Locality (L)	The city or locality where the Onboard Administrator is located.	Must be 1 to 50 characters long.
State or Province (ST)	The state or province where the Onboard Administrator is located.	Must be 1 to 30 characters long.
Country (C)	The two-character country code that identifies the country	Must be a two-character country code.

Prompt	Description	Restrictions
	where the Onboard Administrator is located.	
Organizational Unit	The unit within the company or organization that owns the Onboard Administrator.	(Optional) Must be 0 to 60 characters long.
Contact Person	The person responsible for the Onboard Administrator.	(Optional) Must be 0 to 60 characters long.
Email Address	The email address of the contact person responsible for the Onboard Administrator.	(Optional) Must be 0 to 60 characters long.
Surname	The surname of the person responsible for the Onboard Administrator.	(Optional) Must be 0 to 60 characters long.
Given Name	The given name of the person responsible for the Onboard Administrator.	(Optional) Must be 0 to 60 characters long.
Alternative Name	An alternative name of the person responsible for the Onboard Administrator. The name is used for creating the X509v3 Subject Alternative Name extension attribute.	(Optional) Must be 0 to 512 characters long. The field must either be empty or contain a list of keyword:value pairs separated by commas. The valid keyword:value entries include IP: <ip address=""> and DNS:<domain name="">.</domain></ip>
Initials	The initials of the person responsible for the Onboard Administrator.	(Optional) Must be 0 to 20 characters long.
DN Qualifier	The distinguished name qualifier of the Onboard Administrator.	(Optional) Must be 0 to 60 characters long.
Challenge Password	The password to the certificate-signing request.	(Optional) Must be 0 to 20 characters long.
Unstructured Name	This is for additional information (for example, an unstructured name that is assigned to the Onboard Administrator).	(Optional) Must be 0 to 60 characters long.

GENERATE KEY

Command:

GENERATE KEY { ALL | SECURESH | SSL } [1024 | 2048] [HASH ALGORITHM {SHA1 | SHA-224 | SHA-256 | SHA-384 | SHA-512}]

Description:

- Generates new private keys associated with the Onboard Administrator SSH service or SSL web services.
- If the optional key size is not specified, 2048 is the default.
- If the hash algorithm is not specified, SHA-256 is the default for SSL keys.
- Any self-signed or uploaded web service certificates generated using existing keys are reset.
- The key type is always RSA.

Access level/Bay level:

OA administrator

Restrictions:

- The SHA-224 hash algorithm may not work with some web browsers without the latest encryption libraries.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

PING

Command:

PING [IPv6 [INTERNAL]] [<number>] {ip address> | "<server name>"}

Description:

- Sends ICMP echo messages to a remote IP device.
- If INTERNAL is specified, the command tries to reach only those hosts internal to the enclosure (iLO or interconnect management interfaces only).
- If <number> is omitted, then only four packets are sent. If <number> is zero, then the command attempts to trace the network route to the host (IPv4 only).
- Specify an IPv4 address in the form ###.#i##.###, where each ### ranges from 0 to 255.
- Specify an IPv6 address in the form ###:####:####:###:###:####:####:####; where each #### ranges from 0 to FFFF.
- Packets are sent out at one-second intervals to prevent strain on the network.

Access level/Bay level:

Αll

Restrictions:

The <number> value cannot be greater than 9999 or negative. A <number> greater than 9999 results in an error or four packets being sent. A negative number results in an error.

SET DEVICE SERIAL NUMBER BLADE

Command:

SET DEVICE SERIAL NUMBER BLADE

"<serial number>"<serial number>"

Description:

Sets the serial number of the specified Storage, Tape, or I/O expansion blade.

Access level/Bay level:

OA administrator

Restrictions:

- Length must be 10 characters. All printable characters are allowed.
- This operation cannot be performed on server blades.

SET FACTORY

Command:

SET FACTORY

Description:

- Restores the Onboard Administrator to its factory defaults. The Administrator account password does not change.
- The Onboard Administrator restarts after all changes are made.
- All existing settings are lost when this operation is run.



IMPORTANT: Before resetting factory defaults, save your configuration. To upload a script containing your current configuration, use the UPLOAD CONFIG (on page 139) command. You can use this script later to restore settings that are lost after a factory reset.

NOTE: After a factory reset, the enclosure IPv6 network settings (IPv6, SLAAC, and DHCPv6) are enabled by default.

Access level/Bay level:

OA administrator

Restrictions:

You cannot run SET FACTORY in FIPS Mode ON/DEBUG.

SET SCRIPT MODE

Command:

```
SET SCRIPT [MODE] {ON | OFF}
```

Description:

- This command ceases all prompting and verifying of entries when SCRIPT MODE is on.
- The ADD USER command must have a password argument if executed in SCRIPT MODE.
- Default values are used for any parameters that would normally require user interaction.
- This setting is only effective for the current CLI session.

Access level/Bay level:

Αll

Restrictions:

None

SET URB

```
SET URB [ URL | INTERVAL | PROXY URL | SMTPSERVER | MAILBOX ]
```

Description:

```
Sets settings for URB reporting
```

```
SET URB URL { <url> } sets the URB endpoint URL.
```

```
SET URB PROXY URL { <url> } sets the proxy URL to use when sending URB messages.
SET URB INTERVAL { HOURLY <minute> | DAILY <hour> | WEEKLY <day> <hour> |
MONTHLY <day> <hour> } sets the interval at which URB messages are sent.
```

Access level/Bay level:

OA Administrator, OA Operator

Restrictions:

SET URB URL { <url> }: The URL must be either an HTTP or HTTPS URL and can be no longer than 128 characters.

```
SET URB PROXY URL { <url> }: The URL can be no longer than 128 characters.
SET URB INTERVAL { HOURLY <minute> | DAILY <hour> | WEEKLY <day> <hour> |
MONTHLY <day> <hour> }:
```

- The minutes parameter must be 0-59.
- The DAILY hour parameter must be 0-23.
- The WEEKLY day parameter must be 1-7 where 1 is Sunday and 7 is Saturday.
- The MONTHLY day parameter must be 1-31.

SHOW ALL

Command:

SHOW ALL

Description:

Executes all SHOW commands in succession

Access level/Bay level:

C3000-OA2> show all

Αll

Restrictions:

- This command only displays the bays for which you have privileges.
- To save the output, you must configure your Telnet software to log the session to a file or increase the history buffer size so that the output can be copied and pasted into another file.
- The SHOW ALL command is a series of individual CLI commands, as shown in the example that follows. For specific command output examples, see the individual commands in this guide.

Example:

```
>SHOW HEALTH
>SHOW CONFIG
>SHOW DATE
>SHOW DISPLAY EVENT
>SHOW EBIPA
>SHOW EBIPAV6
>SHOW ENCLOSURE FAN ALL
>SHOW ENCLOSURE INFO
>SHOW ENCLOSURE LCD
>SHOW ENCLOSURE POWER CAP
>SHOW ENCLOSURE POWER CAP BAYS TO EXCLUDE
>SHOW ENCLOSURE POWERSUPPLY ALL
```

```
>SHOW ENCLOSURE POWER SUMMARY
```

- >SHOW ENCLOSURE STATUS
- >SHOW ENCLOSURE TEMP
- >SHOW FIPS MODE
- >SHOW OA INFO
- >SHOW OA NETWORK
- >SHOW OA STATUS ALL
- >SHOW OA UPTIME ALL
- >SHOW OA CERTIFICATE
- >SHOW SYSLOG OA 1
- >SHOW SYSLOG OA 2
- >SHOW SYSLOG HISTORY
- >SHOW SYSLOG HISTORY 0 1
- >SHOW SYSLOG HISTORY 0 2
- >SHOW NETWORK
- >SHOW POWER
- >SHOW RACK NAME
- >SHOW RACK INFO
- >SHOW SECURESH SERVER KEX DHG1
- >SHOW SNMP
- >SHOW SNMP USER LIST
- >SHOW SSHFINGERPRINT
- >SHOW SSHKEY
- >SHOW HPSIM INFO
- >SHOW INTERCONNECT INFO ALL
- >SHOW INTERCONNECT LIST
- >SHOW INTERCONNECT LIST IPV6
- >SHOW INTERCONNECT SESSION
- >SHOW INTERCONNECT STATUS ALL
- >SHOW INTERCONNECT PORT MAP ALL
- >SHOW INTERCONNECT POWERDELAY ALL
- >SHOW SERVER LIST
- >SHOW SERVER LIST IPV6
- >SHOW SERVER NAMES
- >SHOW FRU
- >SHOW SERVER INFO ALL
- >SHOW SERVER PORT MAP ALL
- >SHOW SERVER STATUS ALL
- >SHOW SERVER TEMP ALL
- >SHOW SERVER DVD ALL
- >SHOW SERVER POWERDELAY ALL
- >SHOW SERVER BOOT ALL
- >SHOW SYSLOG SERVER ALL
- >SHOW SYSLOG ILO ALL
- >SHOW TOPOLOGY
- >SHOW TOPOLOGY IPV6
- >SHOW USBKEY
- >SHOW USER (current user)
- >SHOW USER LIST
- >SHOW LDAP INFO
- >SHOW LDAP CERTIFICATE
- >SHOW LDAP GROUP LIST
- >SHOW CA CERTIFICATE
- >SHOW TWOFACTOR INFO
- >SHOW PASSWORD SETTINGS
- >SHOW UPDATE
- >SHOW SYSLOG SETTINGS
- >SHOW VCMODE
- >SHOW SESSION TIMEOUT

```
>SHOW VLAN
>SHOW URB
>SHOW FIRMWARE SUMMARY
>SHOW FIRMWARE SUMMARY CSV
>SHOW FIRMWARE MANAGEMENT
>SHOW FIRMWARE MANAGEMENT LOG
>SHOW FIRMWARE LOG SERVER ALL
>SHOW SERVER FIRMWARE ALL
>SHOW REMOTE SUPPORT
>SHOW REMOTE SUPPORT CERTIFICATE
>SHOW REMOTE SUPPORT EVENT
>SHOW DEVICE SERIAL NUMBER BLADE ALL
>SHOW SOLUTIONSID
>SHOW LOGIN BANNER
>SHOW LANGUAGES
>SHOW VARIABLE LIST
```

SHOW DEVICE SERIAL_NUMBER BLADE

Command:

SHOW DEVICE SERIAL NUMBER BLADE <bay number>

Description:

Shows the specified direct attached blade device serial number

- Access level/Bay level:
 - All
 - Bay specific
- **Restrictions:**

Dependent on bay privileges

Example:

OA-0016355E560A> SHOW DEVICE SERIAL NUMBER BLADE 1 Serial Number: USM81500RP

SHOW URB

Command:

SHOW URB

Description:

Displays the URB reporting settings

Access level/Bay level:

OA Administrator, OA Operator

Restrictions:

None

Example:

OA-0018FE275723> show urb URB Reporting: Enabled URB Endpoint URL:

URB Proxy URL:

URB Interval: Daily at hour 0
Last Attempt: None

TEST URB

Command:

TEST URB

Description:

Manually sends the URB message to the endpoint. This command can be useful for testing the configuration or resending a message after a failure. If the test fails, executing the TEST URB command updates the last attempt status and log a syslog message.

Access level/Bay level:

OA Administrator, OA Operator

Restrictions:

Only works if URB reporting is enabled

Example:

OA-0018FE27577F> test urb

The OA is preparing to send a Utility Ready Blade (URB) notification. Once the message has been sent, the status will be reflected in the SHOW URB command.

Enclosure Bay IP Addressing commands

ADD EBIPA

Command:

ADD EBIPA {SERVER | INTERCONNECT} DNS <ip address> [{ , | - } <bay number>]

Description:

Adds a DNS server IP address to the list of DNS servers for either SERVER bays or INTERCONNECT

Access Level/Bay level:

Administrator, Operator

Restrictions:

- A maximum of three DNS servers can be added for EBIPA.
- The <ip address> must be in the form ###.###.###, where each ### ranges from 0 to 255.

ADD EBIPAV6

Command:

```
ADD EBIPAV6 { SERVER | INTERCONNECT } DNS <ipv6 address> [ ALL | <bay number>
[{ , | - } <bay number>] ]
```

Description:

Adds an EBIPA DNS server IPv6 address to the list of DNS servers for either server bays or interconnect bays.

Access Level/Bay level:

OA administrator, OA operator

Restrictions:

- A maximum of three IPv6 DNS servers can be added for EBIPA.
- A bay number or bay range may be specified. If no bay number or bay range is specified, the IPv6 DNS server is added to all servers or interconnects.
- where #### ranges from 0 to FFFF. A compressed version of the same IPv6 address is also supported.

DISABLE EBIPAV6

Command:

```
DISABLE EBIPAV6 { SERVER | INTERCONNECT } [ ALL | <bay number> [{ , | - }
<bay number>] ]
```

Description:

Disables the ability of the Onboard Administrator to give devices in the bays IPv6 addresses using DHCPv6.

If no bay numbers are specified, then EBIPA IPv6 is disabled for all bays. Devices in bays receive IP addresses from an external server.

This causes a reset of the iLO, which causes it to attempt to get an IPv6 address from an external DHCPv6 server. The interconnect is power-cycled.

Access level/Bay level:

Administrator, Operator

Restrictions:

None

FNABIF FBIPA



CAUTION: This command can cause a loss of connectivity to the configured devices or interconnects.

Command:

```
ENABLE EBIPA {SERVER|INTERCONNECT} [ALL | <bay number> [{ , | - } <bay
number>]]
```

Description:

Enables the Onboard Administrator to provide IP addresses to the devices in the bays using DHCP.

If you do not specify any bay numbers, then EBIPA is enabled for all bays.

DHCP traffic from iLO and the switch modules can no longer go outside the enclosure.

This causes a reset of the iLO, which causes it to attempt to get an IP address. The interconnect is power-cycled.

Access level/Bay level:

Administrator, Operator

Restrictions:

Before using this command you must set up the EBIPA settings. This includes setting the initial IP address, the netmask, and the default gateway.

ENABLE EBIPAV6



CAUTION: This command can cause a loss of connectivity to the configured devices or interconnects.

Command:

```
ENABLE EBIPAV6 { SERVER | INTERCONNECT } [ ALL | <bay number> [{ , | - } <bay
number>] ]
```

Description:

Enables the Onboard Administrator to provide IPv6 addresses to the servers or interconnects in the bays using DHCPv6. If no bay numbers are specified, then EBIPA IPv6 is enabled for all bays.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

Before using this command, you must set up the EBIPA IPv6 settings. This includes setting the initial IP address.

REMOVE EBIPA

Command:

REMOVE EBIPA {SERVER|INTERCONNECT} DNS <ip address> [{ , | - } <bay number>]

Description:

Removes the DNS server specified by the <ip address> from the list of DNS servers for either SERVER bays or INTERCONNECT bays

Access level/Bay level:

Administrator, Operator

Restrictions:

The <ip address> and must be in the form ###.###.###, where each ### ranges from 0 to 255.

REMOVE EBIPAV6

Command:

```
REMOVE EBIPAV6 { SERVER | INTERCONNECT } DNS <ipv6 address> [ ALL | <bay
number> [{ , | - } <bay number>] ]
```

Description:

Removes an EBIPA DNS server IPv6 address from the list of DNS servers for either server bays or interconnect bays.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- o A bay number or bay range may be specified. If no bay number or bay range is specified, the IPv6 DNS server is removed from all servers or interconnects.
- where #### ranges from 0 to FFFF. A compressed version of the same IPv6 address is also supported.

SAVE EBIPA

Command:

SAVE EBIPA

Description:

Saves EBIPA settings for server bays or interconnect bays.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

If SCRIPT MODE is ON when EBIPA is configured (either by running EBIPA commands manually using the CLI or downloading a configuration script using the DOWNLOAD CONFIG (on page 86) command), you must include the SAVE EBIPA command to ensure all EBIPA settings are saved.

SAVE EBIPAV6

Command:

SAVE EBIPAV6

Description:

Saves EBIPA IPv6 settings for device or interconnect bays.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

If SCRIPT MODE is ON when EBIPA is configured (either by running EBIPA commands manually using the CLI or downloading a configuration script using the DOWNLOAD CONFIG (on page 86) command), you must include the SAVE EBIPA command to ensure all EBIPA settings are saved.

SET EBIPA INTERCONNECT

Command:

```
SET EBIPA INTERCONNECT { <IP address> <netmask> } | { NETMASK <netmask> }
| { GATEWAY <qateway> } | { DOMAIN <domain> } | { NTP PRIMARY | SECONDARY
<IP address> } [ ALL | <bay number> [{- | ,} <bay number>] ]
```

Description:

Sets EBIPA settings for interconnect bays. If the bay number parameter is not specified, the settings are applied to all interconnect bays. You can specify an IP fixed address for a specific bay, or you can specify the starting IP fixed address for a range of bays, where EBIPA automatically assigns consecutive addresses to the bays in the range, starting with the specified address. You can specify a domain name for a specific bay or range of bays.

NOTE: The Onboard Administrator documentation refers to EBIPA IP addresses as "fixed IP addresses" or "fixed DHCP addresses," meaning that each of these addresses is an IP address permanently associated with a specific bay number independent of the actual device currently attached to the bay.

To clear the IP address and netmask values, use keywords NONE NONE. For example, to clear the address and netmask for bay 3, specify this command:

```
SET EBIPA INTERCONNECT NONE NONE 3
```

To clear a specific bay, use the bay number.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The <IP address> and <netmask> must be in the form ###.###.###, where each ### ranges from 0 to 255.
- o Do not use the 169.254.x.x range when configuring EBIPA-assigned addresses, as this network address range is reserved for use by the Onboard Administrator.
- The <domain name> is a string containing letters (a-z, A-Z), digits (0-9), or a dash (-). The OA accepts domain name character strings subject to the following constraints:
 - The string must be between 1 and 255 characters in length.
 - The characters are case insensitive.
 - The first character of the domain name must be alphanumeric, while the last character can be either alphanumeric or a period.
 - The characters between the first and last character can be alphanumeric, dash or period.
 - If one or more periods appear in the name, they are used to delimit labels.
 - Labels are between 1 and 63 characters long and begin and end with an alphanumeric character.
 - The last label is referred as the top-level domain and cannot consist of all numeric characters.

SET EBIPA SERVER

Command:

SET EBIPA SERVER { <IP address> <netmask> } | { NETMASK <netmask> } | { GATEWAY <gateway> } | { DOMAIN <domain> } [ALL | <bay number> [{- | ,} <bay number>]

Description:

Sets EBIPA settings for device server bays. If the bay number parameter is not specified, the settings will be applied to all device bays. You can specify an IP fixed address for a specific bay, or you can specify the starting IP fixed address for a range of bays, where EBIPA automatically assigns consecutive addresses to the bays in the range, starting with the specified address. You can specify a domain name for a specific bay or range of bays.

NOTE: The Onboard Administrator documentation refers to EBIPA IP addresses as "fixed IP addresses" or "fixed DHCP addresses," meaning that each of these addresses is an IP address permanently associated with a specific bay number independent of the actual device currently attached to the bay.

To clear the IP address and netmask values, use keywords NONE NONE. For example, to clear the address and netmask for bay 3, specify this command:

```
SET EBIPA SERVER NONE NONE 3
```

To clear a specific bay, use the bay number.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The <IP address> and <netmask> must be in the form ###.###.###, where each ### ranges from 0 to 255.
- o Do not use the 169.254.x.x range when configuring EBIPA-assigned addresses, as this network address range is reserved for use by the Onboard Administrator.
- The <domain name> is a string containing letters (a-z, A-Z), digits (0-9), or a dash (-). The OA accepts domain name character strings subject to the following constraints:
 - The string must be between 1 and 255 characters in length.
 - The characters are case insensitive.
 - The first character of the domain name must be alphanumeric, while the last character can be either alphanumeric or a period.
 - The characters between the first and last character can be alphanumeric, dash or period.
 - If one or more periods appear in the name, they are used to delimit labels.
 - Labels are between 1 and 63 characters long and begin and end with an alphanumeric character.
 - The last label is referred as the top-level domain and cannot consist of all numeric characters.

SET EBIPAV6 INTERCONNECT

Command:

```
SET EBIPAV6 INTERCONNECT {<IPv6 address>{/prefix length}} | {DOMAIN
<domain>} {GATEWAY <gateway>} | [ ALL | <bay number> [{- | ,} <bay number>]]
```

Description:

Sets EBIPA IPv6 address settings for interconnect bays. If the bay number is not specified, the settings will apply to all interconnects. You can specify an IPv6 fixed address for a specific bay, or you can specify the starting IPv6 fixed address for a range of bays, where EBIPA automatically assigns consecutive addresses to the bays in the range, starting with the specified address. (See the following example.) You can specify a domain name for a specific bay or range of bays.

NOTE: The Onboard Administrator documentation refers to EBIPA IP addresses as "fixed IP addresses" or "fixed DHCP addresses," meaning that each of these addresses is an IP address permanently associated with a specific bay number independent of the actual device currently attached to the bay.

To clear the IPv6 address, use the keyword NONE. For example, to clear the address for bay 3, specify the following command:

```
SET EBIPAV6 INTERCONNECT NONE 3
```

Access level/Bay level:

OA administrator, OA operator

Restrictions:

 The <IPv6 address> must be in the form ###:###:###:###:###:###:####:####:###/##, where ### ranges from 0 to FFFF. A compressed version of the same IPv6 address is also supported.

- The /prefix length ranges from 0 to 128. The prefix length is mandatory except when specifying the gateway address.
- o Do not use the fe80::/10 prefix when configuring EBIPA-assigned addresses, as this network prefix is reserved for link local SLAAC addresses.
- o For the gateway, do not specify a prefix. The gateway is assumed reachable from within the network.
 - Regardless of the type of IPv6 address specified, the interconnect GUI always displays the Link-Local IPv6 address of the gateway. If no gateway exists at the Link-Local IPv6 address, no gateway will be configured on the interconnects.
- The <domain name> is a string containing letters (a-z, A-Z), digits (0-9), or a dash (-). To clear the domain name, use an empty string enclosed by double quotes ("").
- o For EBIPA IPv6 fixed addresses to be successfully configured, the IPv6 protocol must be enabled. To enable this setting, see the ENABLE IPV6 (on page 90, "ENABLE EBIPAV6" on page 61) command. The SLAAC and DHCPv6 settings have no effect on EBIPA IPv6 functionality.

```
OA-AOB3CCE63B65> set ebipav6 interconnect 4001::5aaa/64
```

Entering anything other than 'YES' will result in the command not executing.

It may take each interconnect several minutes to acquire the new settings.

```
Are you sure you want to change the IPv6 address for the specified
interconnect bays? yes
Successfully set interconnect bay # 1 to IPv6 address 4001::5aaa/64
Successfully set interconnect bay # 2 to IPv6 address 4001::5aab/64
Successfully set interconnect bay # 3 to IPv6 address 4001::5aac/64
Successfully set interconnect bay # 4 to IPv6 address 4001::5aad/64
```

For the IPv6 addresses to be assigned EBIPAv6 must be enabled.

SET EBIPAV6 SERVER

Command:

```
SET EBIPAV6 SERVER {<IPv6 address>{/prefix length}} | {DOMAIN <domain>}
{GATEWAY < gateway>} \mid [ALL \mid < bay number> [{- \mid ,} < bay number>]]
```

Description:

Sets EBIPA IPv6 address settings for server bays and resets the iLO processor. If the bay number parameter is not specified, the settings will be applied to all device bays. You can specify an IPv6 fixed address for a specific bay, or you can specify the starting IPv6 fixed address for a range of bays, where EBIPA automatically assigns consecutive addresses to the bays in the range, starting with the specified address. (See the following example.) You can specify a domain name for a specific bay or range of bays.

NOTE: The Onboard Administrator documentation refers to EBIPA IP addresses as "fixed IP addresses" or "fixed DHCP addresses," meaning that each of these addresses is an IP address permanently associated with a specific bay number independent of the actual device currently attached to the bay.

To clear the IPv6 address, use the keyword NONE. For example, to clear the address for bay 3, specify the following command:

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The <IPv6 address> must be in the form ###:###:###:###:###:###:###:####:####, where #### ranges from 0 to FFFF. A compressed version of the same IPv6 address is also supported.
- The /prefix length ranges from 0 to 128. The prefix length is mandatory except when specifying the address of the gateway.
- Do not use the fe80::/10 prefix when configuring EBIPA-assigned addresses, as this network prefix is reserved for link local SLAAC addresses.
- For the gateway, do not specify a prefix. The gateway is assumed reachable from within the network.
 - Regardless of the type of IPv6 address specified, the GUI always displays the Link-Local IPv6 address of the gateway. If no gateway exists at the Link-Local IPv6 address, no iLO gateway will be configured.
- The <domain name> is a string containing letters (a-z, A-Z), digits (0-9), or a dash (-). To clear the domain name, use an empty string enclosed by double quotes ("").
- o For EBIPA IPv6 fixed addresses to be successfully configured, the IPv6 protocol must be enabled. To enable this setting, see the ENABLE IPV6 (on page 90, "ENABLE EBIPAV6" on page 61) command. The SLAAC and DHCPv6 settings have no effect on EBIPA IPv6 functionality.

Example:

```
OA-A0B3CCE63B65> set ebipav6 server 4001::4bbc/64 all
```

Entering anything other than 'YES' will result in the command not executing.

Changing the IPv6 address for device (iLO) bays that are enabled causes the iLOs in those bays to be reset.

```
Are you sure you want to change the IPv6 address for the specified
device (iLO) bays? yes
Successfully set device (iLO) bay # 1 to IPv6 address 4001::4bbc/64
Successfully set device (iLO) bay # 2 to IPv6 address 4001::4bbd/64
Successfully set device (iLO) bay # 3 to IPv6 address 4001::4bbe/64
Successfully set device (iLO) bay # 4 to IPv6 address 4001::4bbf/64
Successfully set device (iLO) bay # 5 to IPv6 address 4001::4bc0/64
Successfully set device (iLO) bay # 6 to IPv6 address 4001::4bc1/64
Successfully set device (iLO) bay # 7 to IPv6 address 4001::4bc2/64
Successfully set device (iLO) bay # 8 to IPv6 address 4001::4bc3/64
Successfully set device (iLO) bay #1A to IPv6 address 4001::4bc4/64
Successfully set device (iLO) bay #2A to IPv6 address 4001::4bc5/64
Successfully set device (iLO) bay #3A to IPv6 address 4001::4bc6/64
Successfully set device (iLO) bay #4A to IPv6 address 4001::4bc7/64
Successfully set device (iLO) bay #5A to IPv6 address 4001::4bc8/64
Successfully set device (iLO) bay #6A to IPv6 address 4001::4bc9/64
Successfully set device (iLO) bay #7A to IPv6 address 4001::4bca/64
Successfully set device (iLO) bay #8A to IPv6 address 4001::4bcb/64
Successfully set device (iLO) bay #1B to IPv6 address 4001::4bcc/64
Successfully set device (iLO) bay #2B to IPv6 address 4001::4bcd/64
Successfully set device (iLO) bay #3B to IPv6 address 4001::4bce/64
Successfully set device (iLO) bay #4B to IPv6 address 4001::4bcf/64
```

```
Successfully set device (iLO) bay #5B to IPv6 address 4001::4bd0/64
Successfully set device (iLO) bay #6B to IPv6 address 4001::4bd1/64
Successfully set device (iLO) bay #7B to IPv6 address 4001::4bd2/64
Successfully set device (iLO) bay #8B to IPv6 address 4001::4bd3/64
```

For the IPv6 addresses to be assigned EBIPAv6 must be enabled.

SHOW EBIPA

Command:

SHOW EBIPA

Description:

Displays EBIPA information

Access level/Bay level:

Administrator, Operator, user

Restrictions:

None

Example:

OA-0018FE27577F> SHOW EBIPA

	ce Server Setting d EBIPA/Current		-	DNS
	172.16.211.111			172.16.0.1
ccsc.com	172.16.211.111			172.16.0.2 172.16.0.3
1A Yes test.com	172.16.211.119	255.255.0.0	172.16.0.1	172.16.0.1
	172.16.211.127	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com				172.16.0.2
2 Yes	172.16.211.112	255.255.0.0	172.16.0.1	172.16.0.3 172.16.0.1
ccsc.com	172.16.211.112			172.16.0.2 172.16.0.3
2A Yes test.com	172.16.211.120	255.255.0.0	172.16.0.1	172.16.0.1
2B Yes	172.16.211.128	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com				172.16.0.2 172.16.0.3
3 Yes test.com	172.16.211.113	255.255.0.0	172.16.0.1	172.16.0.3

3A Yes	172.16.211.121	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
3B Yes	172.16.211.129	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com 4 Yes	172.16.211.114	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com 4A Yes	172.16.211.114 172.16.211.122	255 255 0 0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com	1/2.10.211.122	233.233.0.0	1/2.10.0.1	172.16.0.2 172.16.0.3
4B Yes test.com	172.16.211.130	255.255.0.0	172.16.0.1	172.16.0.1
5 Yes	172.16.211.115	255.255.0.0	172.16.0.1	172.16.0.3
5A Yes	172.16.211.123	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
5B Yes	172.16.211.131	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com 6 Yes	172.16.211.116	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com 6A Yes	172.16.211.124	255 255 0 0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com	1/2.10.211.124	233.233.0.0	1/2.10.0.1	172.16.0.2 172.16.0.3
6B Yes test.com	172.16.211.132	255.255.0.0	172.16.0.1	172.16.0.1
7 Yes	172.16.211.117	255.255.0.0	172.16.0.1	172.16.0.3 172.16.0.1
7A Yes	172.16.211.125	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
7B Yes	172.16.211.133	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.com				172.16.0.2 172.16.0.3

8 Y		2.16.211.118	255.255.0.0	172.16.0.1	172.16.0.1
	Yes 172	2.16.211.126	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
	Yes 172	2.16.211.134	255.255.0.0	172.16.0.1	172.16.0.2 172.16.0.3 172.16.0.1
test.cc	JIII				172.16.0.2 172.16.0.3
EBIPA I	Device In	nterconnect Se	ettings		
NTP		Domain		Gateway	
NTP	 Yes 172	Domain 2.16.211.183 testIO.com		Gateway	
NTP	Yes 172 5 0.0 Yes 172	Domain 2.16.211.183 testIO.com 0.0.0 2.16.211.184 testIO.com	255.255.0.0		172.16.0.1
NTP 1 Y 2.3.4.5 2 Y 2.3.4.5	Yes 172 5 0.0 Yes 172 5 0.0	Domain 2.16.211.183 testIO.com 0.0.0 2.16.211.184 testIO.com 0.0.0	255.255.0.0 255.255.0.0	172.16.0.1	172.16.0.1 172.16.0.1

SHOW EBIPAV6

Command:

SHOW EBIPAV6

Description:

Displays EBIPA IPv6 information

Access level/Bay level:

Administrator, Operator, user

Restrictions:

None

Example:

OA-0018FE27577F> SHOW EBIPAV6

EBIPAv6 Device Blades Settings

Bay: 1 Enabled: Yes

EBIPA: 1000::500:10:2/64

Current: (Not Set) Gateway: (Not Set)
DNS 1: 1000::1
DNS 2: 1000::5 DNS 3: (Not Set) Domain: bladeslab.com

```
Bay: 1B Enabled: No
        EBIPA: (Not Set)
         Current: (Not Set)
         Gateway: (Not Set)
         DNS 1: (Not Set)
DNS 2: (Not Set)
         DNS 3: (Not Set)
       Domain: (Not Set)
_____
Bay: 2 Enabled: Yes
        EBIPA: 1000::500:10:2/64
         Current: (Not Set)
         Gateway: (Not Set)
         DNS 1: 1000::1
         DNS 2: 1000::5
         DNS 3: (Not Set)
         Domain: bladeslab.com
Bay: 2A Enabled: No
         EBIPA: (Not Set)
         Current: (Not Set)
         Gateway: (Not Set)
         DNS 1: (Not Set)
         DNS 2: (Not Set)
         DNS 3: (Not Set)
         Domain: (Not Set)
Bay: 2B Enabled: No
         EBIPA: (Not Set)
         Current: (Not Set)
         Gateway: (Not Set)
         DNS 1: (Not Set)
DNS 2: (Not Set)
         DNS 3: (Not Set)
         Domain: (Not Set)
______
Bay: 3 Enabled: Yes
         EBIPA: 1000::500:10:3/64
         Current: (Not Set)
         Gateway: (Not Set)
         DNS 1: 1000::1
         DNS 2: 1000::5
         DNS 3: (Not Set)
         Domain: bladeslab.com
Bay: 3A Enabled: No
         EBIPA: (Not Set)
         Current: (Not Set)
         Gateway: (Not Set)
         DNS 1: (Not Set)
         DNS 2: (Not Set)
         DNS 3: (Not Set)
         Domain: (Not Set)
Bay: 3B Enabled: No
        EBIPA: (Not Set)
         Current: (Not Set)
         Gateway: (Not Set)
         DNS 1: (Not Set)
```

```
DNS 2: (Not Set)
       DNS 3: (Not Set)
       Domain: (Not Set)
Bay: 4 Enabled: Yes
       EBIPA: 1000::500:10:4/64
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: 1000::1
       DNS 2: 1000::5
       DNS 3: (Not Set)
       Domain: bladeslab.com
______
Bay: 4A Enabled: No
      EBIPA: (Not Set)
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
      Domain: (Not Set)
______
Bay: 4B Enabled: No
      EBIPA: (Not Set)
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
      Domain: (Not Set)
Bay: 5 Enabled: Yes
       EBIPA: 1000::500:10:5/64
Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: 1000::1
       DNS 2: 1000::5
       DNS 3: (Not Set)
       Domain: bladeslab.com
______
Bay: 5A Enabled: No
       EBIPA: (Not Set)
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
       Domain: (Not Set)
______
Bay: 5B Enabled: No
       EBIPA: (Not Set)
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
       Domain: (Not Set)
```

Bay: 6 Enabled: Yes

```
EBIPA: 1000::500:10:6/64
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: 1000::1
       DNS 2: 1000::5
       DNS 3:
             (Not Set)
       Domain: bladeslab.com
 ______
Bay: 6A Enabled: No
       EBIPA: (Not Set)
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
       Domain: (Not Set)
______
Bay: 6B Enabled: No
       EBIPA: (Not Set)
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
       Domain: (Not Set)
_____
Bay: 7 Enabled: Yes
       EBIPA: 1000::500:10:7/64
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: 1000::1
       DNS 2: 1000::5
       DNS 3: (Not Set)
       Domain: bladeslab.com
Bay: 7A Enabled: No
       EBIPA: (Not Set)
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
       Domain: (Not Set)
______
Bay: 7B Enabled: No
       EBIPA: (Not Set)
Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
       Domain: (Not Set)
______
Bay: 8 Enabled: Yes
       EBIPA: 1000::500:10:8/64
       Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: 1000::1
       DNS 2: 1000::5
```

```
DNS 3: (Not Set)
       Domain: bladeslab.com
______
Bay: 8A Enabled: No
       EBIPA: (Not Set)
Current: (Not Set)
       Gateway: (Not Set)
       DNS 1: (Not Set)
       DNS 2: (Not Set)
       DNS 3: (Not Set)
       Domain: (Not Set)
_____
Bay: 8B Enabled: No
       EBIPA: (Not Set)
        Current: (Not Set)
        Gateway: (Not Set)
       DNS 1: (Not Set)
DNS 2: (Not Set)
DNS 3: (Not Set)
Domain: (Not Set)
```

Enclosure network configuration commands

ADD OA ADDRESS IPV6

Command:

ADD OA ADDRESS IPV6 [{<bay number>}| ACTIVE | STANDBY] <ipv6 address/prefix

Description:

Adds an IPv6 static address for the Onboard Administrator. If IPv6 is enabled, this setting takes effect immediately. If none of the optional arguments are specified (Onboard Administrator bay number, ACTIVE, or STANDBY), the command defaults to the active Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The prefix length is mandatory.
- where each #### ranges from 0 to FFFF. A compressed version of the same IPv6 address is also supported. The prefix /### ranges from 0 to 128.
- Do not specify a Link Local Address as the IPv6 static address.

ADD OA DNS

Command:

ADD OA DNS [<bay number>] <ip address>

Description:

Adds an IP address of a DNS server to the list. DNS servers are used if the system is configured to use a static IP address. When the Onboard Administrator is configured for both IPv4 and IPv6, the Onboard Administrator uses the first three valid DNS servers from those configured for the supported network configuration modes in the following order:

- Static IPv4
- Static IPv6
- c. DHCPv4
- d. DHCPv6

If a bay number is not specified, then the command defaults to the active Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

A maximum of two DNS servers can be added.

ADD OA DNS IPV6

Command:

ADD OA DNS IPV6 [<bay number>] <ipv6 address{/prefix length}>

Description:

Adds an IPv6 address to the list of DNS servers. The network prefix length is optional. When the Onboard Administrator is configured for both IPv4 and IPv6, the Onboard Administrator uses the first three valid DNS servers from those configured for the supported network configuration modes in the following order:

- a. Static IPv4
- Static IPv6
- c. DHCPv4
- d. DHCPv6

If a bay number is not specified, then the command defaults to the active Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- A maximum of two DNS servers can be added.
- The <ipv6 address> must be in the form ###:###:###:###:###:###:### or ####:###:###:###:###:### ranges from 0 to FFFF. A compressed version of the same IPv6 address is also supported. The prefix /### ranges from 0 to 128.

ADD SSHKEY

Command:

ADD SSHKEY <end marker> <\n> <key> <\n> <end marker>

Description:

Adds an SSH key or keys to the Administrator local account. Multiple SSHKEYs can be concatenated in the string. To add a key:

- Start with a string that does not appear within the key (the end marker).
- b. Insert a newline character by pressing Enter.
- Paste in the key.
- d. Insert a newline character by pressing Enter.
- Insert the end marker.
- f. Issue the command by pressing **Enter**.

Failure to give a proper end marker before and after the key might cause the interface to wait for the appropriate end marker indefinitely.

OA administrator

Restrictions:

- SSHKEY is only available for the Administrator local account.
- SSHKEY works only in script mode.
- SSHKEY string is limited to 4KB on Onboard Administrator versions prior to 2.30.
- SSHKEY string is limited to 8KB on Onboard Administrator version 2.30 and later.
- This command is only valid in script mode.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

ADD SNMP TRAPRECEIVER

Command:

ADD SNMP TRAPRECEIVER <host> ["<community name>"]

Description:

Adds a new trap receiver address to the SNMP configuration. Defaults for the traps are version v1 and port 162. The SNMP Trap community string is set to public or the optional "<community name>". The "<community name>" string, if specified, must be 1 to 20 characters in length. Acceptable characters include any printable character excluding quotes and newlines.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- A maximum of eight IP addresses can be added to receive SNMP traps.
- Only v1 traps are supported.
- The <host> value can be an IPv4 address, an IPv6 address, or a DNS name (maximum of 64 characters).
- IPv6 addresses must be typed without the network prefix length.

ADD SNMP TRAPRECEIVER V3

Command:

ADD SNMP TRAPRECEIVER V3 {<host> <user name> [NoAuthNoPriv|authNoPriv|authPriv] [INFORM] }

Description:

Adds a new trap receiver address to the SNMP configuration. This command is an extension of the existing ADD SNMP TRAPRECEIVER command. The additional V3 parameter indicates this command is an SNMPv3 trap and requires addition parameters.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

Eight v1/2c traps and eight v3 traps are allowed, for a total of 16 traps.

- The <host> value can be an IPv4 address, an IPv6 address, or a DNS name (maximum of 64 characters).
- IPv6 addresses must be typed without the network prefix length.

Command parameters

Name	Description	
User name	An SNMPv3 user account used to send the trap/inform	
NOAUTHNOPRIVAUTHNOPRIVAUTHPRIV	Minimal level of security required for operation. By default, operation is required to be signed but not encrypted (authNoPriv).	
	No authorization or encryptionAuthorization but no encryptionAuthorization and encryption	
INFORM	Indicates an acknowledged inform instead of a trap. By default, the event will be a trap.	

ADD SNMP USER

Command:

ADD SNMP USER "<username>" {MD5 | SHA1} "<auth passphrase"> {DES | AES128} ["<pri>riv passphrase">] [ENGINEID <"engineID"> | [noAuthNoPriv|authNoPriv|authPriv]] ["RW"]]

Description:

- Creates a new user to be used for SNMPv3 queries, traps, and informs.
- A commented out version if this command is included in the configuration script. The original passwords cannot be retrieved. Therefore, the original command cannot be issued.

Access level/Bay level:

OA administrator

Restrictions:

- Each user name/engine ID pair must be unique.
- Up to ten distinct users are allowed.
- When FIPS Mode is enabled, DES and MD5 are not allowed, and users are limited to read-only access.

Command parameters

Name	Description
User name	An alphanumeric string up to 32 characters in length
MD5 or SHA1	Use the MD5 or SHA1 algorithm to encode the authorization passphrase. MD5 is not allowed when FIPS Mode is enabled.
Auth passphrase	Authorization passphrase used to sign operations. This entry must be at least eight characters in length.
DES or AES128	Use the DES or AES128 algorithm to encode the privacy passphrase. DES is not allowed when FIPS Mode is enabled.

Name	Description
Privacy passphrase	Privacy passphrase used to encrypt operations. This entry must be at least eight characters in length. If not specified, the authorization passphrase is used.
noAuthNoPriv authN oPriv authPriv	Only applies to local users. A minimal level of security is required for operation. By default, the operation is required to be signed but not encrypted (authNoPriv). noAuthNoPriv—Allows unauthenticated operations authNoPriv—Requires authentication authPriv—Required encryption
ENGINEID	Sets the engine ID for the user account. If set, the engine ID must be a series of hexadecimal characters, up to 32 bytes or 64 characters in length. This parameter is used for creating remote accounts used with INFORM messages.
RW	Specifies that this user has read/write access to the OID tree. If not specified, the user has read-only access.

ADD TRUSTED HOST

Command:

ADD TRUSTED HOST <ip address>

Description:

Adds a new IPv4 or IPv6 address to the list of addresses being handled by the IP Security feature.

Access level /Bay level:

OA administrator, OA operator

Restrictions:

- You can add a maximum of five IP addresses to the IP Manager.
- When specifying an IPv6 address, do not specify the prefix length.

NOTE: RFC 4941 describes an extension to IPv6 SLAAC that allows for generation of global-scope temporary IPv6 addresses using interface identifiers that change over time. When an OS that supports RFC 4941 reboots or the current address expires, a new temporary IPv6 address is generated. Windows 7 is an example of an OS that supports RFC 4941.



CAUTION: RFC 4941 describes an IPv6 SLAAC extension that allows for generation of alobal-scope temporary IPv6 addresses using interface identifiers that change over time. When an OS that supports RFC 4941 reboots or the current address expires, a new temporary IPv6 address is generated. Windows 7 is an example of an OS that supports RFC 4941. With trusted hosts enabled, if you are accessing the Onboard Administrator from a client hosted on an OS with RFC 4941 support, a reboot of the client OS can result in the inability to reconnect to the Onboard Administrator. The connection fails because the client's new temporary IPv6 address does not match the IPv6 address configured for the client in the Trusted Addresses list. To avoid this issue, either disable generation of global-scope temporary IPv6 addresses in the OS, or reconfigure the Trusted Host IP address with the newly generated client IPv6 address.

CLEAR LOGIN_BANNER_TEXT

Command:

CLEAR LOGIN BANNER TEXT

Description:

Clears the currently configured login banner text.

Access level /Bay level:

OA administrator

Restrictions:

Clearing the login banner text disables the login banner option.

CLEAR NTP

Command:

CLEAR NTP {PRIMARY | SECONDARY}

Description:

Disables access to the Primary or Secondary NTP server

Access level/Bay level:

OA administrator, OA operator

Restrictions:

Clearing the Primary NTP server disables NTP.

CLEAR SSHKEY

Command:

CLEAR SSHKEY

Description:

Removes the authorized key file used for SSH login

Access level/Bay level:

Administrator

Restrictions:

None

CLEAR VCMODE

Command:

CLEAR VCMODE

Description:

Clears Virtual Connect Mode settings.

OA Administrator

OA Bays

Restrictions:

- All servers in the enclosure should be powered off before clearing the VCMODE.
- The enclosure will no longer be managed by Virtual Connect, and servers will revert to default Ethernet MAC and Fibre Channel WWN assignments. Virtual Connect might disconnect the servers from Ethernet networks and Fibre Channel fabrics.

DISABLE ALERTMAIL

Command:

DISABLE ALERTMAIL

Description:

Disables the sending of emails when events occur

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE DHCPV6

Command:

DISABLE DHCPV6

Description:

Disable DHCPv6 mode for management interfaces of all devices in the enclosure. With DHCPv6 disabled, the IPv6 and DNS addresses are not obtained from the DHCPv6 Server. This setting takes effect immediately.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE ENCLOSURE_ILO_FEDERATION_SUPPORT

Command:

DISABLE ENCLOSURE ILO FEDERATION SUPPORT

Description:

Disables the Onboard Administrator support required to allow peer-to-peer network communication necessary for iLO Federation among suitably capable iLOs within the enclosure. To enable, this support, see the ENABLE ENCLOSURE ILO FEDERATION SUPPORT (on page 87) command.

OA administrator, OA operator

Restrictions:

None

DISABLE ENCLOSURE_IP_MODE

Command:

DISABLE ENCLOSURE IP MODE

Description:

Disables Enclosure IP Mode.

Active and Standby Onboard Administrators retain their current IP addresses.

After disabling Enclosure IP Mode and a takeover occurs, there will no longer be a single IP address for the enclosure.

Access level/Bay level:

OA administrator, Operator

Restrictions:

None

DISABLE HTTPS

Command:

DISABLE HTTPS

Description:

Disables HTTPS access to the Onboard Administrator, which prevents access to the web-based user interface

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE FQDN_LINK_SUPPORT

Command:

DISABLE FQDN LINK SUPPORT

Description:

Disables the Onboard Administrator from displaying an FQDN-based web address link in addition to the usual IP-based web address links used for accessing an iLO or interconnect from the Onboard Administrator GUI.

When the FQDN setting is disabled, the FQDN links of all the enclosure devices are removed from the Onboard Administrator and hence are not displayed.

OA administrator, OA operator

Restrictions:

None

DISABLE IPV6

Command:

DISABLE IPV6

Description:

Disables IPv6 protocol for management interfaces of all devices in the enclosure.

CAUTION: If you disable IPv6 in an IPv6-only environment, you will lose your connection to the Onboard Administrator GUI and any SSH sessions. To reestablish your connection, you must perform the initial enclosure configuration via IPv4 networking, the Insight Display, or the Onboard Administrator serial console interface. When disabling IPv6, all connections that depend on the IPv6 protocol are closed.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE IPV6DYNDNS

Command:

DISABLE IPV6DYNDNS [<bay number> | ACTIVE | STANDBY]

Description:

Disables Dynamic DNS using IPv6 for the specified bay, Active Onboard Administrator, or Standby Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE LOGIN_BANNER

Command:

DISABLE LOGIN BANNER

Description:

Disables the login banner from appearing when the user attempts to log in to Onboard Administrator.

Access level /Bay level:

OA administrator

Restrictions:

None

DISABLE NTP

Command:

DISABLE NTP

Description:

Disables the synchronizing of time and date with a remote server using the NTP protocol. Does not clear any NTP servers that have been configured.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE SECURESH

Command:

DISABLE SECURESH

Description:

Disables SSH access to the Onboard Administrator.

Disabling SSH prevents access to the web-based user interface and the SSH terminal interface until a terminal session re-enables the SSH protocol.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE SLAAC

Command:

DISABLE SLAAC

Description:

Disables auto-configuration of IPv6 addresses from SLAAC messages for management interfaces of all devices in the enclosure.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

DISABLE SNMP

Command:

DISABLE SNMP

Description:

Disables SNMP support for the Onboard Administrator.

Does not clear the SNMP trap receivers that have been configured.

SNMP trap receivers can still be added and removed.

If you disable SNMP, then Insight Manager Agents do not work properly.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

This operation is not allowed in FIPS Mode ON/DEBUG.

DISABLE TELNET

Command:

DISABLE TELNET

Description:

Disables telnet access to the Onboard Administrator

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE TRUSTED HOST

Command:

DISABLE TRUSTED HOST

Description:

Disables the host-based access to the Onboard Administrator. Disabling TRUSTED HOSTS allows all hosts to connect to the Onboard Administrator.

Access level/Bay level:

OA administrator, Operator

Restrictions:

None

DISABLE XMLREPLY

Command:

DISABLE XMLREPLY

Description:

Disables XML reply data return over the HTTP port

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DOWNLOAD CONFIG

Command:

DOWNLOAD CONFIG <url>

Description:

- Downloads a previously saved configuration script file from a specific IP host, and then executes it.
- Supported protocols are HTTP, FTP, TFTP, and USB.
- Format the <URL> as protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.

Access level/Bay level:

OA administrator

Restrictions:

- The file cannot change the Administrator account password.
- The user password is not saved or restored by the DOWNLOAD CONFIG command.

DOWNLOAD SSHKEY

Command:

DOWNLOAD SSHKEY <url>

Description:

- Downloads an authorized key file to use for SSH logins. The file contains the public keys for users.
- Supported protocols are HTTP, FTP, and TFTP.
- Format <url> as protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.

If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.

Access level/Bay level:

OA administrator

Restrictions:

When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

ENABLE ALERTMAIL

Command:

ENABLE ALERTMAIL

Description:

Enables the sending of alert emails when an event occurs

Access level/Bay level:

OA administrator, OA operator

Restrictions:

You can only issue this command if the configuration has been set up.

ENABLE DHCPV6

Command:

ENABLE DHCPV6

Description:

Enables the active (and standby, if configured) Onboard Administrator to request a DHCPv6 IP address. Allows DHCPv6 traffic on the enclosure management network. When this mode is enabled, all IPv6 and DNS addresses are obtained from the DHCPv6 Server. If IPv6 is enabled, the ENABLE DHCPV6 setting takes effect immediately. To enable IPv6, use the ENABLE IPV6 (on page 90, "ENABLE EBIPAV6" on page 61) command.

NOTE: For DHCPv6 addresses to be successfully configured, the ENABLE DHCPv6 setting must be enabled on the enclosure and a DHCPv6 server configured on the management network. iLOs and interconnects must be configured separately to request a DHCPv6 address. If they are configured to request DHCPv6 addresses, the ENABLE DHCPv6 and ENABLE IPV6 settings must be enabled to allow the necessary traffic on the enclosure management network.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

For the ENABLE DHCPV6 setting to take effect, IPv6 must be enabled.

ENABLE ENCLOSURE_ILO_FEDERATION_SUPPORT

Command:

ENABLE ENCLOSURE ILO FEDERATION SUPPORT

Description:

Enables the Onboard Administrator support required to allow peer-to-peer network communication necessary for iLO Federation among suitably capable iLOs within the enclosure.



IMPORTANT: Enable Enclosure iLO Federation Support only enables Onboard Administrator support to allow the peer-to-peer network communication necessary for iLO Federation among iLOs within the enclosure. To fully enable iLO Federation, each iLO must have the appropriate firmware and be configured to participate in iLO Federation. For more information, see the HP iLO 4 User Guide at the HP website (http://www.hp.com/go/ilo/docs).

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

ENABLE ENCLOSURE_IP_MODE

Command:

ENABLE ENCLOSURE IP MODE

Description:

Enables Enclosure IP Mode

Access level/Bay level:

OA administrator, Operator

- **Restrictions:**
 - When using enclosure IP mode only replace the standby OA module while the enclosure is powered on to ensure persistence of Enclosure IP Mode settings.
 - You cannot ENABLE ENCLOSURE IP MODE in FIPS Mode ON/DEBUG.

ENABLE FQDN LINK SUPPORT

Command:

ENABLE FQDN LINK SUPPORT

Description:

Enables the Onboard Administrator to display an FQDN-based web address link in addition to the usual IP-based web address links used for accessing an iLO or interconnect from the Onboard Administrator GUI. The Onboard Administrator queries a DNS server that performs a reverse lookup for the FQDN of the device and generates the FQDN-based web address (formatted as host-name.domain-name.com).

When the FQDN setting is enabled, the lists of URL links for all the appropriate devices (iLOs and interconnects) are automatically refreshed and updated with the corresponding FQDNs.

FQDN link support is useful in IPv6-based remote access environments that depend on an IPv4-based enclosure management network with IPv4 DNS. It is not meant for pure IPv6 environments with IPv6 DNS.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- o An IPv4 DNS server must be configured on the Onboard Administrator, and the devices to be accessed must be registered for reverse lookup with the DNS name server.
- A DNS IP address must be configured on the Onboard Administrator (use the ADD OA DNS (on page 75) command).

ENABLE HTTPS

Command:

ENABLE HTTPS

Description:

Enables HTTPS access to the Onboard Administrator

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

ENABLE IPV6DYNDNS

Command:

ENABLE IPV6DYNDNS [<bay number> | ACTIVE | STANDBY]

Description:

Enables Dynamic DNS using IPv6 for either the specified bay, Active Onboard Administrator, or Standby Onboard Administrator. DDNS allows you to use a host name for the Onboard Administrator. The host name is registered with a DNS server. DDNS (DDNS) updates the DNS server with new or changed records for IP addresses. This allows you to use the same host name over time, although the dynamically assigned IP address might change.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

IPv6 Dynamic DNS requires that a valid DNS server (either IPv4 or IPv6) be configured on the Onboard Administrator.

ENABLE LOGIN BANNER

Command:

ENABLE LOGIN BANNER

Description:

Enables the display of the configured login banner when the user attempts to log in to the Onboard Administrator.

Access level /Bay level:

OA administrator

Restrictions:

None

ENABLE IPV6

Command:

ENABLE IPV6

Description:

Enables IPv6 protocol for management interfaces of all devices in the enclosure.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

ENABLE NTP

Command:

ENABLE NTP

Description:

Enables NTP support for the Onboard Administrator

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

ENABLE SECURESH

Command:

ENABLE SECURESH

Description:

Enables SSH support for the Onboard Administrator

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

ENABLE SLAAC

Command:

ENABLE SLAAC

Description:

Enables auto-configuration of IPv6 addresses from SLAAC messages for management interfaces of all devices in the enclosure.

NOTE: For SLAAC addresses to be successfully configured, the ENABLE SLAAC setting must be enabled on the enclosure. In addition, an IPv6 router must be configured on the enclosure management network to provide the SLAAC addresses via Router Advertisements. iLOs may need to be configured separately to obtain SLAAC addresses. To allow the necessary traffic on the enclosure management network, both the ENABLE SLAAC and ENABLE IPV6 settings must be enabled.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

For the ENABLE SLAAC setting to take effect, IPv6 must be enabled. To enable IPv6, use the ENABLE IPV6 (on page 90, "ENABLE EBIPAV6" on page 61) command.

ENABLE SNMP

Command:

ENABLE SNMP

Description:

Enables SNMP Trap support for the Onboard Administrator

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

ENABLE TELNET

Command:

ENABLE TELNET

Description:

Enables telnet access to the Onboard Administrator

Access level/Bay level:

OA administrator, OA operator

Restrictions:

You cannot enable TELNET in FIPS Mode ON/DEBUG.

ENABLE TRUSTED HOST

Command:

ENABLE TRUSTED HOST

Description:

Enables IP security for the Onboard Administrator

Access level/Bay level:

OA administrator

Restrictions:

None

ENABLE XMLREPLY

Command:

ENABLE XMLREPLY

Description:

Enables XML reply data over an HTTP connection

Access Level/Bay Level:

OA administrator, OA operator

Restrictions:

None

REMOVE OA ADDRESS IPV6

Command:

REMOVE OA ADDRESS IPV6 {<bay number>} <ipv6 address/prefix length>

Description:

Removes the IPv6 static address for the Onboard Administrator. If IPv6 is enabled, then this command takes effect immediately. If no Onboard Administrator number is provided, the command defaults to the active Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The prefix length is mandatory.
- The <ip address> value must be in the form ####:###:###:###:###:###:###:###:###;###;###, where each #### ranges from 0 to FFFF.A compressed version of the same IPv6 address is also supported. The prefix /### ranges from 0 to 128.

REMOVE OA DNS

Command:

REMOVE OA DNS [<OA bay number>] <ip address>

Description:

Removes the IP address of a DNS server from the list for the specified Onboard Administrator.

The DNS servers are used only if the system is configured to use a static IP address.

If no bay number is provided, the command default to the active Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The <ip address> must be in the form ###.###.###, where each ### ranges from 0 to 255.

REMOVE OA DNS IPV6

Command:

REMOVE OA DNS IPV6 {<OA bay number>} <ipv6 address{/prefix length}>

Description:

Removes the specified DNS IPv6 address from the list of DNS addresses for the specified Onboard Administrator. If a bay number is not specified, then the command defaults to the active Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- A maximum of two DNS servers can be added.
- The <ip address> must be in the form ###:###:###:###:###:###:####:### or ###:###:###:###:###:###:### ranges from 0 to FFFF and the prefix /### ranges from 0 to 128.

REMOVE SNMP TRAPRECEIVER

Command:

REMOVE SNMP TRAPRECEIVER <host> {"<community name>"}

Description:

- Removes an IP address from the list of systems that receive SNMP traps. If the same IP address is listed multiple times with different communities, all instances of the IP address disappear unless <community> specifies which one is to be removed.
- Removes an existing trap receiver from the SNMP configuration. If the same <host> is listed multiple times with different communities, all instances of the <host> disappears unless <community name> specifies which one is to be removed.
- The <host> value can be either an IPv4 address, an IPv6 address, or a DNS name.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

IPv6 addresses cannot specify the network prefix length.

REMOVE SNMP TRAPRECEIVER V3

Command:

REMOVE SNMP TRAPRECEIVER V3 {<host> [<user name>]}

Description:

- Removes an existing trap receiver address from the SNMP configuration.
- This command is an extension of the existing REMOVE SNMP TRAPRECEIVER command. If a user name is specified, all traps matching the host/user name combination are removed. If no user name is specified, all traps matching the host name are removed.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The <host> value can be an IPv4 address, an IPv6 address, or a DNS name (maximum of 64
- IPv6 addresses must be typed without the network prefix length.

REMOVE SNMP USER

Command:

REMOVE SNMP USER "<username>" [ENGINEID "<engineid>"]

Description:

Deletes the user specified by the username parameter. If the engineid parameter is not set, all users with matching username are deleted. Otherwise, users matching the username and engine ID pair are deleted.

All traps/informs associated with this user are also deleted.

Access level/Bay level:

OA administrator

Restrictions:

The engine ID parameter must be a series of hexadecimal characters up to 32 bytes or 64 characters in length. The engine ID can be prefixed with "Ox."

REMOVE TRUSTED HOST

Command:

REMOVE TRUSTED HOST <ip address>

Description:

Removes an IPv4 or IPv6 address from the list of addresses being handled by the IP Security feature.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET ALERTMAIL MAILBOX

Command:

SET ALERTMAIL MAILBOX "<email address>"

Description:

Sets the email address where events are sent

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET ALERTMAIL SENDERDOMAIN

Command:

SET ALERTMAIL SENDERDOMAIN "<domain>"

Description:

Sets the AlertMail domain. This command is the DNS domain where the Onboard Administrator is located (for example, http://www.AB.com).

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The OA accepts domain name character strings subject to the following constraints:

- The string must be between 1 and 255 characters in length.
- The characters are case insensitive.
- The first character of the domain name must be alphanumeric, while the last character can be either alphanumeric or a period.
- The characters between the first and last character can be alphanumeric, dash or period.
- If one or more periods appear in the name, they are used to delimit labels.
- Labels are between 1 and 63 characters long and begin and end with an alphanumeric
- The last label is referred as the top-level domain and cannot consist of all numeric characters.

SET ALERTMAIL SENDERNAME

Command:

SET ALERTMAIL SENDERNAME "<name>"

Description:

Sets the AlertMail sender's name. This name is attached to the email address in the from field in an alertmail message.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The <name> value may contain alphanumeric, dash(-), underscore(_), and space characters.
- Maximum length is 40 characters.

SET ALERTMAIL SMTPSERVER

Command:

```
SET ALERTMAIL SMTPSERVER [ <host> ]
```

Description:

Sets the SMTP server. This is the mail server where the Onboard Administrator delivers its e-mail based

The <host> value can be either an IPv4 address, an IPv6 address, or a DNS name.

Access level/Bay level

Administrator, OA operator

Restrictions:

IPv6 addresses cannot specify the network prefix length.

SET FIPS MODE

Command:

```
SET FIPS MODE {ON ["<password>"] | DEBUG ["<password>"] | OFF }
```

Description:

- Using FIPS MODE ON enforces use of the Onboard Administrator in a FIPS 140-2-compliant mode, using only FIPS 140-2 approved algorithms such as AES and TLSv1.2. Setting this option to OFF also enables other SSLv3 algorithms such as RSA, RC4, and MD5.
- Using the DEBUG option sets the Onboard Administrator to a FIPS MODE ON similar environment. FIPS MODE DEBUG has the functionality of FIPS MODE ON but is not considered FIPS-compliant because of the debug option.
- The Onboard Administrator restarts after all changes are made.
- All existing settings are lost when this operation is run. Any change to the FIPS Mode setting performs a Restore to Factory Default operation.

If the change is to FIPS MODE ON or FIPS MODE DEBUG, strong passwords are enabled, minimum password length is set to eight characters, and a new Administrator account password is requested.

Access level/Bay level:

OA administrator

Restrictions:

- When the Onboard Administrator is operating in FIPS Mode, certificates must have a minimum RSA key length of 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512. Certificates are used in various features such as the following:
 - Onboard Administrator certificate signing requests (for more information, see the GENERATE CERTIFICATE (on page 51) command)
 - LDAP (for more information, see "Directory commands (on page 39)")
 - Two-Factor Authentication (for more information, see "Two-Factor Authentication commands (on page 34)")
 - Insight Remote Support (for more information, see "HP Insight Remote Support commands (on page 194)")
 - HP SIM Single Sign-On (for more information, see "HP SIM commands (on page 47)")

SET IPCONFIG

Command:

SET IPCONFIG {DHCP | STATIC} [<OA bay number>] [DYNAMICDNS] <ip address> <netmask> [<qateway> [<DNS1address> [<DNS2 address>]]]

Description:

- Configures IP settings for the Onboard Administrator to DHCP mode or static mode.
- In STATIC mode, the IP address and Netmask are set to <ip address> and <netmask> respectively. These settings take effect immediately. If the Gateway address and/or DNS addresses are cleared, they are omitted. The Gateway and DNS address can also be set by using the SET OA GATEWAY and ADD OA DNS commands.
- SET IPCONFIG STATIC [<OA bay number>] <ip address> <netmask> [<gateway> [<DNS1 address> [<DNS2 address>]]]
- In DHCP mode, the IP address, Netmask, Gateway address, and DNS addresses are obtained from the DHCP. This setting immediately takes effect. If DYNAMICDNS is specified, then the DNS server is notified of the new IP address of the system when it is received from the DHCP server.
- SET IPCONFIG DHCP [<OA bay number>] [DYNAMICDNS]

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET LOGIN_BANNER_TEXT

Command:

SET LOGIN BANNER TEXT <end marker> <\n> <banner text> <\n> <end marker>

Description:

Sets the login banner text to be displayed when the user attempts to log in to the Onboard Administrator.

To enter the login banner text:

- Start with a string that does not appear within the certificate (the end marker).
- b. Insert a newline character by pressing Enter.
- Paste in the certificate.
- Insert a newline character by pressing Enter.
- Insert the end marker.
- Issue the command by pressing **Enter**.

Failure to give a proper end marker before and after the banner text might cause the interface to wait for the appropriate end marker indefinitely.

Access level /Bay level:

OA administrator

Restrictions:

- This command is only available in script mode.
- The end marker must not consist of all numeric characters (for example, 1245, 85213, and so on).
- The minimum length of the banner text must be 1 character and the banner text cannot exceed 1500 characters.
- The command accepts English (ASCII) characters only.
- The characters '%' and '\' are not permitted as part of the banner text itself, but you can use them as characters in the end marker to make a unique string.
- The banner text must contain at least one visible character.

SET NTP POLL

Command:

SET NTP POLL <seconds>

Description:

Sets the polling interval of the NTP servers

Access level/Bay level:

OA administrator, OA operator

Restrictions:

Poll time should be between 60 and 86,400 seconds.

SET NTP PRIMARY

Command:

SET NTP PRIMARY <host>

Description:

Sets the primary server used for synchronizing time and date using the NTP. The <host> value can be an IPv4 address, an IPv6 address, or a DNS name.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

IPv6 addresses cannot specify the network prefix length.

SET NTP SECONDARY

Command:

SET NTP SECONDARY <host>

Description:

Sets the secondary server used for synchronizing time and date using the NTP. The <host> value can be either an IPv4 address, an IPv6 address, or a DNS name.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

IPv6 addresses cannot specify the network prefix length.

SET OA GATEWAY

Command:

SET OA GATEWAY [IPV6] [<bay number> | ACTIVE | STANDBY] <ip address>

Description:

- Sets the network default gateway for IPv4 or IPv6.
- This gateway is used only if the system is configured to use a static IP address rather than the DHCP
- o If you do not specify a bay number, the command defaults to the current Onboard Administrator and the IPv4 default gateway.
- If you specify IPV6, the static default gateway IPv6 address is added to the default IPv6 gateway list. If Router Advertisements provide IPv6 gateway configuration, the default is already configured. Their configuration overrides the static IPv6 gateway setting. To determine the IPv6 gateway currently in use by the Onboard Administrator, use either the SHOW NETWORK (on page 105) or SHOW OA NETWORK (on page 131) command.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The <ip address> must be in the form ###.###.###, where each ### ranges from 0 to 255. When using the IPV6 option, the <ip address> must be in the form ####:####:####:####:####:####:####:###/###, where each #### ranges from 0 to FFFF. A compressed version of the same IPv6 address is also supported.

SET OA NAME

Command:

SET OA NAME [<bay number> | ACTIVE | STANDBY] "<OA name>"

Description:

Sets the Onboard Administrator name. If a bay number is not specified, the command defaults to the active Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The Onboard Administrator name is 1 to 32 characters long including all alphanumeric characters and the dash (-).

SET OA UID

Command:

SET OA UID [<bay number> | ACTIVE | STANDBY] {ON | OFF}

Description:

Sets the Onboard Administrator UID on or off.

If you do not specify a bay number, the command defaults to the active Onboard Administrator.

Access level/Bay level:

Αll

Restrictions:

None

SET SECURESH SERVER KEX DHG1

Command:

SET SECURESH SERVER KEX DHG1 [ENABLE | DISABLE]

Description:

Enables insecure diffie-hellman-group 1-sha1 key exchange on the Onboard Administrator's SSH server.

Access level/Bay level:

OA administrator

Restrictions:

The default is disabled on Onboard Administrator 4.01 and later. Enable only if compatibility with older client applications is required.

SET SERIAL BAUD

Command:

```
SET SERIAL BAUD [ 9600 | 19200 | 38400 | 57600 | 115200]
```

Description:

Configures the baud rate settings for the OA serial console port.

Access level/Bay level:

OA administrator (only allowed from Active OA)

Restrictions:

None

SET SNMP COMMUNITY

Command:

SET SNMP COMMUNITY {READ | WRITE} "<community name>"

Description:

Sets the community name for the read or write SNMP community. If a blank write community name is given, then SNMP set commands are disabled until a non-empty community name is given.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The write <community name> must be no more than 20 characters long, and the read <community name> must be 1 to 20 characters long.
- All printable characters are valid.
- The default read community name is public.
- The default write community name is public.

SET SNMP ENGINEID

Command:

SET SNMP ENGINEID "<engineid>"

Description:

Sets the SNMPv3 engine ID for the enclosure. The final engine ID will be a hexadecimal string derived from the <engineID> value.

Use the SHOW SNMP command to display the current engine ID.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The <engineid> must be between 1 and 27 characters in length. The final engine ID will be a hexadecimal string derived from this value.
- Any local users must be deleted and recreated after changing the local engine ID.

Example:

OA> set snmp engineid testid

SNMP engine id set to "0x8000000b04746573746964"

SET SNMP CONTACT

Command:

SET SNMP CONTACT "<contact>"

Description:

Configures the name of the system contact. The default contact is blank.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The <contact> must be no more than 20 characters long.
- Any printable character is acceptable. If <contact> includes spaces or hash signs, include it within double quotes.

SET SNMP LOCATION

Command:

SET SNMP LOCATION "<location>"

Description:

Configures the SNMP location of the enclosure. The default location is blank.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- The <location> must be no more than 20 characters long.
- Any printable character is acceptable. If <location> includes spaces or hash signs, include it within double quotes.

SHOW FIPS MODE

Command:

SHOW FIPS MODE

Description:

Displays the FIPS Mode setting.

Access level/Bay level:

OA administrator, OA user

Restrictions:

- o In ON mode, Onboard Administrator is in a FIPS 140-2-compliant mode, using only FIPS 140-2 approved algorithms such as AES and TLSv1.2.
- o In DEBUG mode, Onboard Administrator is in a similar state as ON but with option for HP debug support.

Example:

OA-E4115BECFBAB> show fips mode

FIPS Mode is Off

SHOW HEALTH

Command:

SHOW HEALTH

Description:

Displays current health of all components in the enclosure. If a component is degraded or failed, a cause and corrective action are provided.

Access level/Bay level:

Αll

Restrictions:

None

Example:

Enclosure Health:

Enclosure: OK

Power Subsystem: OK Cooling Subsystem: OK

Blade Health:

Bay Status	Problem	Corrective Action
1 OK 2 Absent		
3a Error	Management Processor	An iLO failure has been detected. Make sure you
have a		suitable iLO firmware
loaded. resetting	iLO Network	Reseating the blade or
		iLO may also help.
Other		The network connectivity
due		is impaired. This could be
		to bad gateway, DNS or

```
info. It could take up to
3
                                      minutes for devices to
gain
                                      connectivity after
insertion.
3b OK
 4 Absent
5a OK
5b OK
 6 Absent
7 Absent
8a OK
8b OK
9 Subsumed
10 OK
11a OK
11b OK
12a OK
12b OK
13 Absent
14 Absent
15 Absent
16 Absent
Interconnect Health:
Bay Status
                  Problem
                                     Corrective Action
--- ------
 2 Absent
 3 OK
 4 OK
 5 OK
 6 Subsumed
 7 OK
 8 Subsumed
Power Supply Health:
                  Problem
Bay Status
                                     Corrective Action
--- ------
_____
 1 OK
 2 OK
 3 OK
 4 OK
 5 OK
 6 OK
Fan Health:
                  Problem
Bay Status
                                     Corrective Action
 1 OK
 2 OK
 3 OK
```

4 OK

5 OK

6 OK

7 OK

8 OK

9 OK

10 OK

Onboard Administrator Health:

Bay Status Problem Corrective Action ___ ______

1 Absent

2 OK

SHOW LOGIN_BANNER

Command:

SHOW LOGIN BANNER

Description:

Displays the login banner settings including:

- Login banner display on user login enabled/disabled
- Currently configured login banner text (if any)
- Access level /Bay level:

OA administrator, OA operator, OA user

Restrictions:

None

Example:

OA-0018FE2757AD> show login banner

Login Banner:

Status : Enabled
Login Banner Text : This is sample login banner text.

Do not attempt to access this system without proper authorization.

Using this system without proper authorization can result in serious penalties.

SHOW NETWORK

Command:

SHOW NETWORK

Description:

Displays network settings of Onboard Administrator, including:

Enclosure

- IPv4 information
- IPv6 information
- DHCP state
- SLAAC
- Dynamic DNS state
- Static Default Gateway
- Current Default Gateway
- IP address subnet mask
- Gateway address
- Primary and secondary DNS addresses
- MAC address
- HTTP and HTTPS server status
- SNMP status
- SSH status
- FIPS Mode
- Trusted Host status
- HPSIM trust mode status
- Telnet status
- AlertMail status
- NTP status
- Network link settings
- Enclosure IP mode
- GUI login status
- Active Health System status
- VLAN status
- Enclosure iLO Federation Support status
- FQDN link support status

Access level/Bay level:

Αll

Restrictions:

VLAN ID information displays only when VLAN is enabled.

Example:

```
OA-E4115BECFBAB> show network
Enclosure Network Settings:
       ---- IPv6 Information ----
       IPv6: Enabled
       DHCPv6: Disabled
       Stateless address autoconfiguration (SLAAC): Enabled
```

Onboard Administrator Network Settings:

```
---- IPv4 Information ----
       DHCP: Enabled - Dynamic DNS
       IPv4 Address: 16.84.194.23
       Netmask: 255.255.252.0
       Gateway Address: 16.84.192.1
       ---- IPv6 Information ----
       Link-local Address: fe80::e611:5bff:feec:fbab/64
       Static Address: Not Set
       Stateless address autoconfiguration (SLAAC) Addresses:
               (Not Set)
       Static IPv6 DNS 1: Not Set
       Static IPv6 DNS 2: Not Set
       IPv6 Dynamic DNS: Enabled
       IPv6 Static Default Gateway: (Not set)
       IPv6 Current Default Gateway: (Not set)
       ---- General Information ----
       Active DNS Addresses:
               Primary:
                               16.110.135.52
                             16.110.135.51
               Secondary:
               Tertiary:
                               Not Set
       MAC Address: E4:11:5B:EC:FB:AB
       Network Link Settings: Link Auto-negotiation
Onboard Administrator Protocol Status:
       Web (HTTP/HTTPS): Enabled
       SNMP: Disabled
       SecureSH: Enabled
       FIPS Mode: Off
       Trusted Hosts: Disabled
       HPSIM Trust Mode: Disabled
       Telnet: Disabled
       AlertMail: Disabled
               Mailbox: Not Set
               SMTP Server: Not Set
               Sender Domain: Not Set
               Sender Name: Not Set
               Sender Email: Not Set
       XML Reply: Enabled
       NTP: Disabled
               Primary NTP server: Not Set
               Secondary NTP server: Not Set
               Server Poll-Interval: 720 seconds
       Link Loss Failover: Disabled
       Link Loss Interval: 60 seconds
       Enclosure IP Mode: Disabled
       GUI Login Detail: Enabled
       Active Health System: Enabled
       VLAN: Disabled
       Enclosure iLO Federation Support: Enabled
              Enclosure enabled iLO Federation bays: 8, 16
       Fully Qualified Domain Name (FQDN) Link Support: Enabled
```

SHOW SNMP

Command:

SHOW SNMP

Description:

Displays the SNMP configuration, including:

- SNMP system name
- Location
- Contact
- Read community name
- Write community name
- Engine ID
- List of the trap destinations

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA> SHOW SNMP
```

```
SNMP Configuration:
        Status: Enabled
        System Name: USE818AMMS
        System Location: bottom rack1
        System Contact: admin@localhost
        Read Community Name: public
```

Write Community Name: private Engine ID: 0x800000b0466697665 Trap Receiver host: 16.84.189.215 public

localhost private 16.84.189.215 bob authPriv v3

SHOW SNMP USER

Command:

```
SHOW SNMP USER {LIST | "<username>"}
```

Description:

Displays the current information regarding SNMPv3 users. If LIST is specified, the list of current users is displayed. If a user name is specified, information regarding that user is displayed.

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA> show snmp user list

SNMPv3 User Local Access Security EngineID local none none

0x8000000b044866463948746b6773726b694c534756

OA> show snmp user bob

User: bob Local: yes

Access: read-only

Authentication Protocol: MD5

Privacy Protocol: DES

Minimum Security Level: auth EngineID: 0x800000b0466697665

SHOW SSHFINGERPRINT

Command:

SHOW SSHFINGERPRINT

Description:

Displays the key fingerprint of the Onboard Administrator host public key.

Access level/Bay level:

OA administrator, OA operator, OA user

Restrictions:

None

Example:

OA-0018FE27577F> SHOW SSHFINGERPRINT 1024 3f:5c:33:0a:a1:2e:9b:2c:da:eb:fe:90:87:34:13:b7 /etc/ssh/id dsa.pub

SHOW SSHKEY

Command:

SHOW SSHKEY

Description:

Displays the contents of the existing SSH authorized key files.

Access level/Bay level:

Administrator

Restrictions:

None

SHOW VCMODE

Command:

SHOW VCMODE

Description:

Displays Virtual Connect Mode settings

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA-0018FE27577F> SHOW VCMODE Virtual Connect Mode: Disabled

TEST ALERTMAIL

Command:

TEST ALERTMAIL

Description:

Sends a test AlertMail message to the configured email address

Access level/Bay level:

Administrator, operator

Restrictions:

You must have OA permission to perform this command.

TEST SNMP

Command:

TEST SNMP

Description:

Sends a test SNMP trap to all of the configured trap destinations

Access level/Bay level:

OA administrator, OA operator

Restrictions:

To use this function, you must enable SNMP.

Enclosure management commands

ADD LANGUAGE

Command:

ADD LANGUAGE <URL>

Description:

- Uploads and installs a language pack.
- Supported protocols are HTTP, FTP, TFTP, and USB.
- The URL should be formatted as protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.

Access level/Bay level:

OA administrator, OA operator

Restriction:

None

CLEAR SYSLOG

CAUTION: You cannot restore this information after you delete it.

Command:

CLEAR SYSLOG {ENCLOSURE | OA <bay number>}

Description:

Clears the Onboard Administrator system log. If you do not specify a bay number, the Active Onboard Administrator system log is cleared.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

CONNECT ENCLOSURE

Command:

CONNECT ENCLOSURE

Description:

Connects to the OA CLI on a linked enclosure. To get a list of linked enclosure names, use the SHOW TOPOLOGY command.

Access level/Bay level:

Αll

Restriction:

None

DISABLE DHCP_DOMAIN_NAME

Command:

DISABLE DHCP DOMAIN NAME [<bay number> | ACTIVE | STANDBY]

Description:

- Disables the DHCP domain name, allowing the user to enter a domain name instead of the one supplied by DHCP. For more information, see the SET OA DOMAIN NAME (on page 118) command.
- This command requires that Dynamic DNS is enabled. If bay number is not specified, the command will default to the OA where the command is being run.
- o If the user has previously disabled the DHCP-supplied domain name, this command will cause the specified OA to revert to using the DHCP domain name.
- o If Dynamic DNS is enabled, then ENABLE will succeed, otherwise the ENABLE command will fail with an error message: Dynamic DNS is not enabled.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

DISABLE GUI_LOGIN_DETAIL

Command:

DISABLE GUI LOGIN DETAIL

Description:

Disables extended enclosure information available in the GUI on the login page

Access level/Bay level:

OA administrator, OA operator

Restriction:

None

DISABLE LLF

Command:

DISABLE LLF

Description:

Disables Link Loss Failover for Onboard Administrator Redundancy.

Access level/Bay level::

Operator, Administrator

Restrictions:

You must have Onboard Administrator permission to perform this command.

ENABLE DHCP_DOMAIN_NAME

Command:

ENABLE DHCP DOMAIN NAME [<bay number> | ACTIVE | STANDBY]

Description:

- Enables the DHCP domain name.
- This command requires that Dynamic DNS is enabled. If bay number is not specified, the command will default to the OA where the command is being run.
- If the user has previously disabled the DHCP-supplied domain name, this command will cause the specified OA to revert to using the DHCP domain name.
- If Dynamic DNS is enabled, then ENABLE will succeed, otherwise the ENABLE command will fail with an error message: Dynamic DNS is not enabled.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

ENABLE GUI_LOGIN_DETAIL

Command:

ENABLE GUI LOGIN DETAIL

Description:

Enables extended enclosure information available in the GUI on the login page

Access level/Bay level:

OA administrator, OA operator

Restriction:

None

ENABLE LLF

Command:

ENABLE LLF

Description:

Enables Link Loss Failover for Onboard Administrator Redundancy.

Access level/Bay level:

Operator, Administrator

Restrictions:

You must have OA permission to perform this command

REMOVE LANGUAGE

Command:

```
REMOVE LANGUAGE { <language> | <language code> }
```

Description:

Removes the user specified language. <language> is the language name. <Language code> is a two-letter designation for a language (EN-English, JA-Japanese, ZH-Chinese). To get a list of installed language packs, use SHOW LANGUAGES command.

Access level/Bay level:

OA administrator, OA operator

Restriction:

None

RESTART OA

Command:

RESTART OA [<bay number>]

Description:

Resets the Onboard Administrator module specified by <bay number>. If no bay number is given, then the Onboard Administrator the user is logged in to is restarted.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET DATE

Command:

```
SET DATE MMDDhhmm [[CC]YY][TZ]
```

Description:

Sets the date of the enclosure with the following definitions:

- MM: Month
- DD: Day

hh: Hour (24-hour time)

mm: Minute CC: Century

YY: Year

TZ: Time zone

If you leave the time zone variable blank, then the current time zone is left in effect.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

Date and time can only be set if NTP is disabled.

MM is an integer from 01 to 12.

DD is an integer from 01 to 31.

hh is an integer from 00 to 24.

mm is an integer from 00 to 60.

For valid time zones, see "Time Zone settings (on page 208)".

SET DISPLAY EVENTS

Command:

SET DISPLAY EVENTS {ON | OFF}

Description:

- Turns the displaying of events that are triggered by status changes in the system on or off.
- This command is specific to the CLI session, and must be issued for every CLI session to display events in that session.

Access level/Bay level:

Αll

Restrictions:

Only for bays for which you have privileges

SET ENCLOSURE ASSET

Command:

SET ENCLOSURE ASSET [TAG] "<asset tag>"

Description:

- Sets the enclosure asset tag
- The default enclosure asset tag is blank

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The <asset tag> must be 0 to 32 characters long and includes all alphanumeric, underscore (_), and dash (-) characters.

SET ENCLOSURE NAME

Command:

SET ENCLOSURE NAME "<enclosure name>"

Description:

- Changes the enclosure name
- The default enclosure name is the mid-plane serial number

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The <enclosure name> must be 1 to 32 characters long and includes all alphanumeric, underscore (_), and dash (-) characters.

SET ENCLOSURE PART NUMBER

Command:

SET ENCLOSURE PART NUMBER "<part number>"

Description:

Sets the part number of the enclosure

Access level/Bay level:

OA administrator

Restrictions:

Must be 10 characters in length and the first character must be a digit. Acceptable characters are all alphanumeric and the dash (-).

SET ENCLOSURE PDU_TYPE

Command:

SET ENCLOSURE PDU TYPE {1|2|3|4|5}

Description:

Sets the enclosure PDU type to:

- 1=Single-phase
- 2=Three-phase
- 3=Three-phase, international
- 4=DC Power Input Module
- 5=Single phase IPD

Access level/Bay level:

OA administrator

Restrictions:

1, 2, 3, 4, 5

SET ENCLOSURE SERIAL_NUMBER

Command:

SET ENCLOSURE SERIAL NUMBER "<serial number>"

Description:

Sets the enclosure serial number.

Access level/Bay level:

OA administrator

Restrictions:

- Must be 10 characters in length. Acceptable characters include alphanumeric, dash, and
- Remote Support must be disabled. For more information, see the DISABLE REMOTE SUPPORT (on page 197) command.

SET ENCLOSURE UID

Command:

SET ENCLOSURE UID {ON | OFF}

Description:

Turns the UID LED of the enclosure on or off.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET LLF INTERVAL

Command:

SET LLF INTERVAL <seconds>

Description:

Set the Link Loss Failure Interval

Access level/Bay level:

Operator, Administrator

Restrictions:

Must have OA permission to perform this command.

SET OA DOMAIN_NAME

Command:

SET OA DOMAIN NAME [<bay number> | active | standby] {"<domain-name>" | NONE }

Description:

- Sets the Onboard Administrator domain name for the active or standby OA.
- The combination of Onboard Administrator host name and domain name must be 1-255 characters in length.
- The name must not begin or end with a dash (-); it must consist only of letters, numbers, and dashes; and it cannot be entirely numeric.
- To clear the current domain name, specify NONE.
- If the DHCP domain name has been disabled, the domain name specified by this command will override the DHCP domain name. This command requires that Dynamic DNS is enabled.
- The setting is not effective until Dynamic DNS is enabled on OA.
- The response depends on the domain name the user provides and also the domain_name_override
 - If the name has a syntax error, an Invalid Arguments error message appears, followed by the help text for the command.
 - If the domain name is valid and not used currently, the following message appears: OA in bay X (ACTIVE/STANDBY) set to XXX.

Access level/Bay level:

OA administrator

Restrictions:

The OA accepts domain name character strings subject to the following constraints:

- The string must be between 1 and 255 characters in length.
- The characters are case insensitive.
- The first character of the domain name must be alphanumeric, while the last character can be either alphanumeric or a period.
- The characters between the first and last character can be alphanumeric, dash or period.
- If one or more periods appear in the name, they are used to delimit labels.
- Labels are between 1 and 63 characters long and begin and end with an alphanumeric character.
- The last label is referred as the top-level domain and cannot consist of all numeric characters.

SET OA USB

Command:

SET OA USB {FRONT | BACK}

Description:

Allows the Onboard Administrator to select which USB controller to enable.

The FRONT controller enables the internal DVD drive and the front USB connector.

The BACK controller enables the two USB ports on the rear of the KVM Option Module.

This command has no effect on c3000 Onboard Administrator boards that are hardware revision level 'CO' and later as displayed with SHOW OA INFO.

Access level/Bay level:

OA Administrator

Restrictions:

A small number of c3000 Onboard Administrator boards can use only one USB controller at a time.

SET POWER MODE

Command:

SET POWER MODE {NOTREDUNDANT | REDUNDANT | POWERSUPPLY}

Description:

- Configures redundancy settings.
- The NOTREDUNDANT setting enables all power supplies to function without regard for redundancy.
- The POWERSUPPLY setting enables one power supply to fail without being over committed on
- The REDUNDANT setting enables half of the power supplies to fail without being over committed on power.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET POWER LIMIT

Command:

```
SET POWER LIMIT {<number> | OFF}
```

Description:

Sets or removes a limit on how much input power can be consumed by the enclosure. This setting is helpful if the enclosure receives power from a PDU with a limited power rating

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET POWER SAVINGS

Command:

```
SET POWER SAVINGS {ON | OFF}
```

Description:

- Turns power savings mode on or off. Enabling power savings (specify ON) turns unneeded power supplies off. (In the Onboard Administrator GUI, you turn power savings mode on or off using the Enable Dynamic Power setting from the Power Management screen.)
- The increased load on the remaining power supplies increases their efficiency, resulting in less power consumption.
- The default is OFF.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

Power savings is supported with all c3000 power supplies. It supports c7000 power supplies only if operating with high-line input voltage (such as 220V AC). It is not supported with c7000 -48V DC power supplies.

SET TIMEZONE

Command:

SET TIMEZONE "<timezone>"

Description:

Sets the time zone

See Time zone settings (on page 208) for appropriate time zones. Some that are commonly used include: CET, CST6CDT, EET, EST, EST5EDT, GB, GMT, HST, MET, MST, MST7MDT, NZ, PRC, PST8PDT, UCT, and UTC.

Access level/Bay level

OA administrator, OA operator

Restrictions:

None

SHOW CONFIG

Command:

SHOW CONFIG

Description:

Displays the script required to recreate the settings of the enclosure. Passwords are not included for any

Access level/Bay level:

OA administrator

Restrictions:

None

Example:

OA-0018FE27577F> SHOW CONFIG #Script Generated by Administrator

```
#Generated on: Tue Apr 15 10:34:32 2008
#Set Enclosure Time
SET TIMEZONE CST6CDT
#SET DATE MMDDhhmm{{CC}YY}
#Set Enclosure Information
SET ENCLOSURE ASSET TAG "ENC-0000Short"
SET ENCLOSURE NAME "Shorty"
SET RACK NAME "UnnamedRack"
SET POWER MODE NONE
SET POWER SAVINGS ON
#Power limit must be within the range of 950-8750
SET POWER LIMIT OFF
#Set PowerDelay Information
SET INTERCONNECT POWERDELAY 1 0
SET INTERCONNECT POWERDELAY 2 0
SET INTERCONNECT POWERDELAY 3 0
SET INTERCONNECT POWERDELAY 4 0
SET SERVER POWERDELAY 1 0
SET SERVER POWERDELAY 2 0
SET SERVER POWERDELAY 3 0
SET SERVER POWERDELAY 4 0
SET SERVER POWERDELAY 5 0
SET SERVER POWERDELAY 6 0
SET SERVER POWERDELAY 7 0
SET SERVER POWERDELAY 8 0
SET SERVER POWERDELAY 1A 0
SET SERVER POWERDELAY 2A 0
SET SERVER POWERDELAY 3A 0
SET SERVER POWERDELAY 4A 0
SET SERVER POWERDELAY 5A 0
SET SERVER POWERDELAY 6A 0
SET SERVER POWERDELAY 7A 0
SET SERVER POWERDELAY 8A 0
--More-- (20% of 4709 bytes)
```

SHOW DATE

Command:

SHOW DATE

Description:

Displays the current date, time, and time zone of the internal clock of the enclosure

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE27577F> SHOW DATE
Date: 2008-04-15T10:36:46-05:00 Time Zone: CST6CDT
```

SHOW DISPLAY EVENTS

Command:

Description:

Displays whether event notification is on or off

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA-0018FE27577F> SHOW DISPLAY EVENTS Display Events is set to OFF.

SHOW ENCLOSURE FAN

Command:

SHOW ENCLOSURE FAN {<fan number> | ALL}

Description:

Displays information about, and current status of the specified enclosure fan

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE27577F> show enclosure fan 1
Fan #1 information:
       Status: OK
       Speed: 48 percent of Maximum speed
       Maximum speed: 18000
       Minimum speed: 10
       Power consumed: 21
       Product Name: Active Cool 200 Fan
       Part Number: 412140-B21
       Spare Part Number: 413996-001
       Version: 2.7
       Diagnostic Status:
               Internal Data
                                   OK
               Location
                                    OK
               Device Failure
                                    OK
               Device Degraded
                                    OK
               Missing Device
                                    OK
```

SHOW ENCLOSURE INFO

Command:

SHOW ENCLOSURE INFO

Description:

Displays:

- Enclosure name
- Enclosure type
- Onboard Administrator hardware version
- Enclosure Rack U Position
- Enclosure part number
- Serial number
- Asset tag
- Onboard Administrator MAC address
- Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE2F6941> show enclosure info
Enclosure Information:
       Enclosure Name: USE818AMMP
        Enclosure Type: BladeSystem c7000 Enclosure
        Enclosure Rack U Position: 6
        Part Number: 412152-B21
        Serial Number: USE818AMMP
        UUID: 09USE818AMMP
       Asset Tag:
       Midplane Spare Part Number: 414050-001
        Solutions ID: 0000000000000000
        Power Distribution Unit:
               PDU Type: HP AC Module, Single Phase
                PDU Spare Part Number: 413494-001
        Onboard Administrator Tray Information:
                Type: HP BladeSystem c7000 Onboard Administrator Tray
                Spare Part Number: 416000-001
                Serial Number: OI84MP1625
```

SHOW ENCLOSURE LCD

Command:

SHOW ENCLOSURE LCD

Description:

Displays information about the Insight Display screen

Access level/Bay level:

Αll

Restrictions:

None

```
OA-0018FE27577F> SHOW ENCLOSURE LCD
     Status : OK
Display : Off
```

Name : BladeSystem c3000 Insight Display

Spare Part# : 441831-001

Manufacturer: HP Fw Version : 2.0 Diagnostic Status:

Internal Data OK

SHOW ENCLOSURE POWER_SUMMARY

Command:

SHOW ENCLOSURE POWER_SUMMARY

Description:

Displays a detailed summary of the enclosure's present power state.

Access level/Bay level:

OA Administrator

Restrictions:

Administrator account privileges are required.

Example:

OA-0018FE27577F> show enclosure power summary

Enclosure Bay Output Allocation:

Bay	Power Allocated (Watts	DC)
Devices	1314	
Interconnects	+ 25	
Fans	+ 480	
	= 1819	

Enclosure Output Power Summary: Enclosure Watts DC Power Capacity 3600
Power Allocation - 1819

Trailable = 1781

Enclosure Input Power Summary: Enclosure Watts AC Enclosure

Present Power 822

Max Input Power 8500

Dynamic Power Cap Not Set

8500 Power Limit 8500

Device Bay Power Summary:

		Power Allocated
Bay	Name	(Watts DC)
1	Slammer	212
2	test45667	419
ЗА	linux	261
3В	linux	265
4	YOUR-EYZCGYAYBB	157

= 1314

Interconnect Bay Bay Name	Power Summary:	Power Alloca	ated (Watts DC)		
1 GbE2c Ethern 2	1 GbE2c Ethernet Blade Switch 2		25 0 = 25		
	: Fan Rule (Number of Fans)	Present Power (Watts DC)	Power Allocated (Watts DC)		
6	6	148	480		

SHOW ENCLOSURE POWERSUPPLY

Command:

SHOW ENCLOSURE POWERSUPPLY {ALL | <power supply number> [{ , | - } <power supply number>]}

Description:

Displays:

- Power supply status
- AC input status
- Capacity
- Input voltage range #1 (measured in V)
- Input voltage range #2 (if necessary; measured in V)
- Input frequency range (measured in Hz)
- Part number
- Serial number
- Hardware revision for the specified power supply (if one is specified)
- Range of power supplies, or for all power supplies (if ALL is specified).

Access level/Bay level:

Αll

Restrictions:

None

```
OA-0018FE27577F> show enclosure powersupply 1
Power Supply #1 Information:
       Status: OK
       AC Input Status: OK
       Capacity: 1200 Watts
       Current Power Output: 590 Watts
        Serial Number: 531300ALL00233
        Product Name: HP PROLIANT SERVER PS
        Part Number: 438203-001
```

```
Spare Part Number: XXXXXX-001
Product Ver:
Diagnostic Status:
       Internal Data
       Device Failure
                          OK
       Power Cord
                           OK
```

SHOW ENCLOSURE STATUS

Command:

SHOW ENCLOSURE STATUS

Description:

Displays the basic health and status of the enclosure subsystem

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE27577F> SHOW ENCLOSURE STATUS
Enclosure:
       Status: OK
       Unit Identification LED: Off
       Diagnostic Status:
               Internal Data OK
Onboard Administrator:
       Status: OK
Power Subsystem:
       Status: OK
       Power Mode: Not Redundant
       Power Capacity: 3600 Watts DC
       Power Available: 2685 Watts DC
       Present Power: 463 Watts AC
Cooling Subsystem:
       Status: OK
       Fans Good/Wanted/Needed: 6/6/5
       Fan 1: 9497 RPM (53%)
       Fan 2: 7342 RPM (41%)
       Fan 3: 9493 RPM (53%)
       Fan 4: 9495 RPM (53%)
       Fan 5: 7343 RPM (41%)
       Fan 6: 9508 RPM (53%)
```

SHOW ENCLOSURE TEMP

Command:

SHOW ENCLOSURE TEMP

Description:

Displays the highest ambient temperature being reported by the installed blade devices. If no blade devices are installed, displays the temperature of the OA module as an approximation of the ambient temperature.

Access level/Bay level:

Αll

Bay specific

Restrictions:

None

Example:

OA-0018FE27577F> SHOW ENCLOSURE TEMP
 OA-UU18FE2/5//F>
 SHOW ENCLOSURE TEMP

 Locale
 Temp Status
 Temp Caution
 Critical

 Enclosure
 N/A
 26C/ 78F
 -- --

 Onboard Administrator
 1 OK
 26C/ 78F
 75C
 80C

 Blade Bay
 7 N/A
 20C/ 68F
 38C
 43C

 Blade Bay
 8 N/A
 25C/ 77F
 45C
 60C

 Blade Bay
 2A N/A
 25C/ 77F
 40C
 45C

 Blade Bay
 2B N/A
 27C/ 80F
 40C
 45C

 Interconnect Module
 1 OK
 --- -- --

SHOW FRU

Command:

SHOW FRU

Description:

- The FRU Summary section provides information on all field replaceable units within the enclosure.
- o Information provided in this section can quickly aid the administrator in contacting HP Customer Service for troubleshooting, repair, and ordering replacements.

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have access to the specified bay.

Example:

OA-0018FE27577F> show fru

Model: BladeSystem c3000 Enclosure

Manufacturer: HP

Serial Number: 0987654321 Part Number: 437506-B21

Enclosure Midplane

Manufacturer: HP

Spare Part Number: 441829-001

Onboard Administrator 1

Model: BladeSystem c3000 Onboard Administrator

Manufacturer: HP

Serial Number: P30590A9VUQ04B

Part Number: 448589-B21

Spare Part Number: 441832-001

Firmware Version: 2.40

HwVersion: A0

Blade

Model: ProLiant BL480c G1

Manufacturer: HP

Serial Number: USM64204B1 Part Number: 416667-B21

Spare Part Number: 410293-001

Blade

Model: Integrity BL860c

Manufacturer: hp

Serial Number: CSJ0634214

Part Number: AD323A

Spare Part Number: AD217-60001

Blade

Model: ProLiant BL460c G1

Manufacturer: HP

Serial Number: USM62401EP Part Number: 404664-B21

Spare Part Number: 410299-001

Interconnect 1

Model: GbE2c Ethernet Blade Switch

Manufacturer: HP

Serial Number: MY36290EMT Part Number: 410917-B21

Spare Part Number: 414037-001

Interconnect 2

Model: HP 1/10Gb VC-Enet Module

Manufacturer: HP

Serial Number: TW2702004K Part Number: 399593-B22

Spare Part Number: 399725-001

Fan 1

Model: Active Cool 200 Fan Part Number: 412140-B21

Spare Part Number: 413996-001

Fan 2

Model: Active Cool 200 Fan Part Number: 412140-B21

Spare Part Number: 413996-001

Fan 3

Model: Active Cool 200 Fan Part Number: 412140-B21

Spare Part Number: 413996-001

Fan 4

Model: Active Cool 200 Fan Part Number: 412140-B21

Spare Part Number: 413996-001

Fan 5

Model: Active Cool 200 Fan Part Number: 412140-B21

Spare Part Number: 413996-001

Fan 6

Model: Active Cool 200 Fan Part Number: 412140-B21

Spare Part Number: 413996-001

Power Supply 1

Model: 438203-001

Serial Number: 531300ALL00233 Spare Part Number: XXXXXX-001

Power Supply 2

Model: 438203-001

Serial Number: 531300ALL00014 Spare Part Number: XXXXXX-001

Power Supply 3

Model: 438203-001

Serial Number: 531300ALL00399 Spare Part Number: XXXXXX-001

Insight Display

Model: BladeSystem c3000 Insight Display

Manufacturer: HP

Spare Part Number: 441831-001

Firmware Version: 2.2.2

SHOW LANGUAGES

Command:

SHOW LANGUAGES

Description:

Displays all language support packs installed. Language support packs enable the Onboard Administrator GUI to display information in languages other than English.

Access level/Bay level:

OA administrator, OA operator, OA user

Restriction:

None

Example:

OA-E4115BECFBAB> show languages

Found 2 language support pack(s). Language support packs enables OA GUI to display information in languages other than English.

Language	Version	Date	Code	File name
English	4.10	Nov 06 2013	en	Embedded
Chinese	4.10	Sep 30 2013	zh	
OA_410_130930_z	n.lpk			

SHOW OA

Command:

```
SHOW OA {CERTIFICATE | INFO | NETWORK | STATUS | UPTIME | USB} [ALL | <bay
number> [{ , | - } <bay number>] | ACTIVE | STANDBY]]
```

Description:

Displays the certificate information, network configuration, status, uptime, or USB mode of the Onboard Administrator. You can use the alias Active or Standby for the <bay number>.

Access level/Bay level:

Αll

Restrictions:

None

SHOW OA CERTIFICATE

Command:

```
SHOW OA CERTIFICATE [ALL | <bay number> [{ , | - } <bay number> ] | ACTIVE
| STANDBY]]
```

Description:

Shows the certificate information for the Onboard Administrator

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE27577F> SHOW OA CERTIFICATE
Onboard Administrator #1 Certificate Information:
  Issued by: OA-0018FE27577F
  Valid from: 2007-02-01T09:54:30Z
  Valid until: 2017-01-29T09:54:30Z
  Serial Number: 1A:TT:66:77:FF:2D
  Version: 1
  MD5 Fingerprint: F08:87:33:89:D9:E1:W3:BC:6D:88:C1:77:A4:KI:DC:AA
  SHA1 Fingerprint:
78:B8:14:09:ED:98:66:3D:58:ED:C2:U5:80:AB:78:4L:4B:4F:12:34
  Subject:
  Common Name (CN): OA-1234FE27577F
  Country (C):
  State or Province (ST):
  City or Locality (L):
  Organization Name (0): Hewlett-Packard
  Organizational Unit: Onboard Administrator
```

SHOW OA INFO

Command:

Description:

Displays information about the Onboard Administrator. If the Onboard Administrator is not specified, the command defaults to the Active Onboard Administrator.

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE27577F> SHOW OA INFO
Onboard Administrator #1 information:
       Product Name : BladeSystem c3000 Onboard Administrator
       Part Number : 123456-B21
       Spare Part No.: 123456-001
       Serial Number: PLO590A9FDJ8
                : 123P4R5T6YVUQ04B
       Manufacturer : HP
       Firmware Ver. : 2.20
       Hw Version : A0
  Loader Version: U-Boot 1.2.1 (Dec 7 2012 - 13:27:25)
  Serial Port:
      Baud Rate : 9600
      Parity : None Data bits : 8
      Stop bits : 1
      Flow control: None
```

SHOW OA NETWORK

Command:

```
SHOW OA NETWORK [ALL | <bay number> [{ , | - } <bay number>] | ACTIVE | STANDBY]]
```

Description:

Displays the network configuration for the specified Onboard Administrator. If you do not specify the Onboard Administrator (ACTIVE or STANDBY), the command defaults to the active Onboard Administrator. If the domain name is set, it is displayed in the output under the "----- IPv4 Information ---- heading.

Access level/Bay level:

OA administrator, OA operator, OA user

Restrictions:

VLAN ID information appears only when VLAN is enabled.

```
OA-E4115BECFBAB> show oa network
show oa network
Enclosure Network Settings:
        - - - - - IPv6 Information - - - -
        IPv6: Enabled
```

```
DHCPv6: Disabled
        Stateless address autoconfiguration (SLAAC): Enabled
Onboard Administrator #1 Network Information:
        Name: OA-E4115BECFBAB
        ---- IPv4 Information ----
        DHCP: Enabled - Dynamic DNS
        DHCP-Supplied Domain Name: Enabled
        Domain Name: americas.hpgcorp.net
        IPv4 Address: 16.84.194.23
        Netmask: 255.255.252.0
        Gateway Address: 16.84.192.1
        - - - - IPv6 Information - - - -
        Link-local Address: fe80::e611:5bff:feec:fbab/64
        Static Address: Not Set
        Stateless address autoconfiguration (SLAAC) Addresses:
                (Not Set)
        Static IPv6 DNS 1: Not Set
        Static IPv6 DNS 2: Not Set
        IPv6 Dynamic DNS: Enabled
        IPv6 Static Default Gateway: (Not set)
        IPv6 Current Default Gateway: (Not set)
        ---- General Information ----
        Active DNS Addresses:
               Primary: 16.110.135.52
Secondary: 16.110.135.51
Tertiary: Not Set
        MAC Address: E4:11:5B:EC:FB:AB
        Link Settings: Auto-Negotiation, 1000 Mbps, Full Duplex
        Link Status: Active
        Enclosure IP Mode: Disabled
        - - - - - Advanced Settings - - - -
        User-Supplied Domain Name: Not Set
```

SHOW OA STATUS

Command:

SHOW OA STATUS [ALL | <bay number> [{ , | - } <bay number>] | ACTIVE | STANDBY]]

Description:

Displays health status for the Onboard Administrator. If you do not specify the Onboard Administrator, the command defaults to the Active Onboard Administrator.

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA-0018FE27577F> SHOW OA STATUS Onboard Administrator #1 Status: Name: OA-0018FE27577F

Role: Active UID: Off Status: OK Diagnostic Status:

OK Internal Data OK Firmware Mismatch OA Battery OK

SHOW OA UPTIME

Command:

SHOW OA UPTIME [ALL | <bay number> [{ , | - } <bay number>] | ACTIVE | STANDBY]]

Description:

Displays uptime for the Onboard Administrator. If you do not specify the Onboard Administrator, the command defaults to the Active Onboard Administrator.

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE27577F> SHOW OA UPTIME
active all standby
OA-0018FE27577F> SHOW OA UPTIME ACTIVE
Onboard Administrator #1:
       Role:
                Active
       Uptime: 0 days, 0 hours, 43 min
       CPU Load: 0.00, 0.02, 0.06
```

SHOW OA USB

Command:

SHOW OA USB

Description:

- Displays which USB controller is currently enabled.
- The FRONT controller enables the internal DVD drive and the front USB connector.
- The BACK controller enables the two USB ports on the near KVM Option Module.
- This command has no effect on HP c3000 Onboard Administrator boards that are hardware revision level CO and later. Hardware revision is found using the SHOW OA INFO command.

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA-0018FE27577F> SHOW OA USB

SHOW POWER

Command:

SHOW POWER

Description:

Displays the current power configuration

Access level/Bay level:

Αll

Restrictions:

None

Example:

```
OA-0018FE27577F> SHOW POWER
Power Mode: Not Redundant
Dynamic Power: Enabled
Set Power Limit: Not Set
Power Capacity:
Power Available:
Power Allocated:
Present Power:
Power Limit:
                                 3600 Watts DC
                                 2685 Watts DC
                                   915 Watts DC
                                   476 Watts AC
Power Limit:
                                  4378 Watts AC
```

SHOW SYSLOG

Command:

```
SHOW SYSLOG {SERVER <bay number> | ILO <bay number> | ENCLOSURE | OA <bay
number> | HISTORY | SETTINGS}
```

Description:

Displays the syslog of the enclosure with 22 lines per screen. To quit the command, enter q. Any other key shows the next screen, if there is more information to display.

Access level/Bay level:

Bay specific

Αll

Restrictions:

You must have access to the specified bay.

```
OA-0016355E560A> SHOW SYSLOG SERVER
Retrieving Server syslog(s) ...
Server 1 Syslog:
<EVENT LOG DESCRIPTION="Integrated Management Log">
SEVERITY="Informational"
CLASS="Maintenance"
LAST UPDATE="02/12/2007 18:01"
INITIAL UPDATE="02/12/2007 18:01"
```

```
COUNT="1"
DESCRIPTION="IML Cleared (iLO user:Administrator)"
OA-0016355E560A> SHOW SYSLOG ENCLOSURE
Apr 23 12:25:03 OA: Authentication failure for user larry from 18.84.33.55,
requesting authenticate user
Apr 23 12:25:13 OA: Authentication failure for user larry from 18.84.33.55,
requesting authenticate user
Apr 23 12:25:33 OA: Authentication failure for user larry from 18.84.33.55,
requesting authenticate user
Apr 23 12:26:36 OA: Authentication failure for user larry from 18.84.33.55,
requesting authenticate user
Apr 23 12:26:50 OA: demo logged into the Onboard Administrator
Apr 23 13:18:43 OA: Tim.r.bowlers@hp.com logged into the Onboard
Administrator
OA-0018FE27577F> SHOW SYSLOG SETTINGS
Remote log: Disabled
Address:
                514
Port:
```

SHOW SYSLOG OA

Command:

SHOW SYSLOG OA [<bay number>]

Description:

Displays the syslog for the Onboard Administrator. If no bay number is given, then the Active Onboard Administrator syslog appears.

Access level/Bay level:

OA administrator, OA operator, OA user

Restrictions:

None

```
OA-0018FE27577F> SHOW SYSLOG OA
Apr 2 16:21:22 in.ftpd[25446]: connection from 12.34.567.890
Apr 2 16:21:24 in.ftpd[25446]: exiting due to EOF from client
Apr 2 16:21:35 in.ftpd[25451]: connection from 12.34.567.890
Apr 2 16:21:36 in.ftpd[25451]: exiting due to EOF from client
Apr 2 16:24:29 in.ftpd[25222]: exiting due to EOF from client
Apr 2 16:25:01 in.ftpd[25558]: connection from 12.34.567.890
Apr 2 16:25:02 in.ftpd[25558]: user logged in
Apr 2 16:25:03 in.ftpd[25559]: connection from 12.34.567.890
Apr 2 16:25:05 in.ftpd[25559]: userlogged in
Apr 2 16:25:13 in.ftpd[25559]:
Apr 2 16:31:44 in.ftpd[25559]:
Apr 2 16:32:58 OA: Administrator logged into the Onboard Administrator
Apr 2 16:34:27 in.ftpd[25559]: exiting due to EOF from client
Apr 2 16:55:02 in.ftpd[25558]: exiting due to timeout (idle time 1800)
Apr 2 16:59:12 OA: Administrator logged out of the Onboard Administrator
Apr 2 19:30:05 in.ftpd[31241]: connection from 12.34.567.890
Apr 2 19:30:07 in.ftpd[31241]: guest logged in
Apr 2 19:30:12 in.ftpd[31245]: connection from 12.34.567.890
Apr 2 19:30:13 in.ftpd[31245]: user logged in
```

```
Apr 2 19:30:27 in.ftpd[31245]: Can't change directory to standby.xml: No
such
file or directory
Apr 2 19:30:29 in.ftpd[31241]: Can't change directory to standby.xml: No
such
file or directory
Apr 2 19:31:09 in.ftpd[31245]:
Apr 2 19:33:55 in.ftpd[31245]:
Apr 2 19:37:40 in.ftpd[31245]:
Apr 2 19:40:07 in.ftpd[31241]: exiting due to read error from client:
Connection reset by peer
```

SHOW SYSLOG HISTORY

Command:

SHOW SYSLOG HISTORY { <number of entries> } [<bay number> | ACTIVE | STANDBY

Description:

Displays the extended system log history for the Onboard Administrator. To display all logged entries, use 0. The extended system log appears for the Active Onboard Administrator.

Access level/Bay level:

OA administrator, OA operator, OA user

Restrictions:

None

```
OA-0018FE27577F> SHOW SYSLOG HISTORY 20
Apr 2 16:21:22 in.ftpd[25446]: connection from 12.34.567.890 Apr 2 16:21:24 in.ftpd[25446]: exiting due to EOF from client
Apr 2 16:21:35 in.ftpd[25451]: connection from 12.34.567.890
Apr 2 16:21:36 in.ftpd[25451]: exiting due to EOF from client
Apr 2 16:24:29 in.ftpd[25222]: exiting due to EOF from client
Apr 2 16:25:01 in.ftpd[25558]: connection from 12.34.567.890
Apr 2 16:25:02 in.ftpd[25558]: user logged in Apr 2 16:25:03 in.ftpd[25559]: connection from 12.34.567.890
Apr 2 16:25:05 in.ftpd[25559]: user logged in
Apr 2 16:25:13 in.ftpd[25559]:
Apr 2 16:31:44 in.ftpd[25559]:
Apr 2 16:32:58 OA: Administrator logged into the Onboard Administrator
Apr 2 16:34:27 in.ftpd[25559]: exiting due to EOF from client
Apr 2 16:55:02 in.ftpd[25558]: exiting due to timeout (idle time 1800)
Apr 2 16:59:12 OA: Administrator logged out of the Onboard Administrator
Apr 2 19:30:05 in.ftpd[31241]: connection from 12.34.567.890
Apr 2 19:30:07 in.ftpd[31241]: guest logged in
Apr 2 19:30:12 in.ftpd[31245]: connection from 12.34.567.890
Apr 2 19:30:13 in.ftpd[31245]: user logged in
Apr 2 19:30:27 in.ftpd[31245]: Can't change directory to standby.xml: No
such
file or directory
```

UPDATE

Command:

```
UPDATE {IMAGE | ILO | SHOW | DEVICE | FIRMWARE }
```

Description:

- The UPDATE SHOW (or SHOW UPDATE) command displays enclosure devices that are available for firmware upgrade.
- The UPDATE DEVICE command executes the firmware upgrade process on one or more available enclosure devices.
- The device must be restarted after the firmware update by UPDATE command.
- o The updated firmware version in the NewVersion column is already available in the Onboard Administrator firmware code and does not have to be downloaded from the HP website.

Access level/Bay level:

OA administrator

Restrictions:

The UPDATE DEVICE FORCE ALL command is not allowed. You can update single devices only by using UPDATE DEVICE FORCE.



CAUTION: When a firmware upgrade is in process, do not disconnect the Onboard Administrator modules. Disconnecting these modules could render the Onboard Administrator unusable.

Notes:

- Updating components using this command might interrupt server connectivity.
- Updating partner blade management firmware requires the corresponding server be powered off first, then the component updated, and then the server can be powered back on.
- Some components may require power cycling after the firmware update for the new firmware to be activated.
- The discovery PIC is identified as a BLD string.

Example:

>update show

Device Name	Locati	ion Version	
NewVersion			
			-
TRAY BladeSystem c7000 Onboard Administrator Tray	-	1.7	
ICBAY HP 1Gb Ethernet Pass-Thru Module for c-Class 3.0.3	1A	2.8.3	1
ICBAY HP 1Gb Ethernet Pass-Thru Module for c-Class 3.0.3	2A	2.8.3	I
ICBAY HP 1Gb Ethernet Pass-Thru Module for c-Class 3.0.3	3A	2.8.3	-
ICBAY HP 1Gb Ethernet Pass-Thru Module for c-Class 3.0.3	4A	2.8.3	-
ICBAY HP 4Gb Fibre Channel Pass-thru Module for c-C 2.10.3	5A	2.4.3	-

```
1 2.4.3
ICBAY | HP 4Gb Fibre Channel Pass-thru Module for c-C | 6A
2.10.3
ICBAY | HP 4Gb Fibre Channel Pass-thru Module for c-C | 7A
                                                              1 2.4.3
2.10.3
ICBAY | HP 4Gb Fibre Channel Pass-thru Module for c-C | 8A
                                                               | 2.4.3
2.10.3
BLD
     | BladeSystem Location Device
                                                                 11.10
| 1.10
```

Update 1Gb Ethernet PT module 1A via command UPDATE device ICBAY 1A Update 4Gb Fibre Channel PT module 8A via command: UPDATE device ICBAY 8A

UPDATE ILO

Command:

UPDATE ILO {ALL | <bay number> [{ , | - } <bay number>]} <url> [TPM FORCE]

Description:

- The UPDATE ILO command downloads a new flash image from the network and uses it to update the firmware for iLO.
- Supported protocols are HTTP, HTTPS, TFTP, and FTP.
- The URL must be formatted as protocol://host/path/filename.
- If your FTP server does not support anonymous logins, then a username and password can be specified within the URL that is formatted as: ftp://username/password@host/path/filename.
- o If TPM is installed and enabled on the server blade, the UPDATE ILO command must include the TPM force option after the URL.
- Upgrading an iLO without performing the proper OS encryption procedure will result in loss of access to your server data if a TPM is enabled. If you do not have your recovery key or have not suspended encryption, do not flash iLO.

Access level/Bay level:

Administrator

Blade bay

Restrictions:

- If maximum users exist in iLO (12), then this command fails. A user account must be available to execute this command.
- This command is not applicable to HP Integrity server blades.

UPDATE IMAGE FW_ISO

Command:

UPDATE IMAGE { [FORCE] FW ISO <url> | SYNC}

Description:

• The IMAGE command downloads a new flash image from the network and uses it to update the Onboard Administrator firmware. If a redundant Onboard Administrator is present in the system, then this command flashes and validates its firmware before attempting to flash the active Onboard Administrator.

- Updates the Onboard Administrator firmware using an image on a firmware CD. Enclosure Firmware Management must be configured with a valid ISO URL.
- Supported protocols are HTTP, FTP, and TFTP.
- The URL must be formatted as: protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.
- Use FORCE to enable downgrading firmware even if settings and passwords might be lost.
- The UPDATE IMAGE SYNC command initiates a firmware sync of the Active and Standby Onboard Administrators.
- For USB protocol, see the SHOW USBKEY (on page 185) command.
- Access level/Bay level:

OA administrator, OA operator

Restrictions:

You cannot use the FORCE option for a downgrade in FIPS Mode ON/DEBUG.



CAUTION: When a firmware upgrade is in process, do not disconnect the Onboard Administrator modules. Disconnecting these modules could render the Onboard Administrator unusable.

UPLOAD CONFIG

Command:

UPLOAD CONFIG {"<url>" | USB "<filename>"}

Description:

- Uploads to the specified URL a script that duplicates the current runtime configuration.
- Supported protocols are FTP, TFTP, and USB.
- Format the URL as follows: protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.
- To save an Onboard Administrator configuration file to a USB key, use the USB keyword and provide a file name.

Access level/Bay level:

OA administrator

Restriction:

The user password is not saved or restored by the UPLOAD CONFIG command.

UPLOAD SUPPORTDUMP

Command:

UPLOAD SUPPORTDUMP {"<url>"}

Description:

- Uploads supportdump data to the specified URL.
- Supported protocols are FTP, TFTP, and USB.
- The URL must be formatted as: protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.
- To upload to the enclosure's connected USB drive, use the command UPLOAD SUPPORTDUMP USB://D1/LOG1 (where D is the USB drive letter and 1 is the USB drive number). Up to four USB drives are supported, so the number must be between 1 and 4.

Access level/Bay level:

OA administrator

Restriction:

You cannot use the UPLOAD SUPPORTDUMP command in FIPS Mode ON/DEBUG.

UPLOAD SYSLOG

Command:

UPLOAD SYSLOG [<URL>]

Description:

- Uploads the extended system log history for the current Onboard Administrator.
- Supported protocols are FTP, TFTP, and USB.
- The URL must be formatted as: protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.

Access level/Bay level:

OA administrator, OA operator, OA user

Restrictions:

None

Enclosure Firmware Management commands

DISCOVER FIRMWARE SERVER

Command:

DISCOVER FIRMWARE SERVER { ALL | <bay number> [{- | ,} <bay number>] }

Description:

Manual firmware discovery. The blade is reset, which simulates a removal and insertion of the blade.

Access level/Bay level:

OA administrator, server administrator

Restrictions:

None

DISABLE FIRMWARE MANAGEMENT

Command:

DISABLE FIRMWARE MANAGEMENT

Description:

Disables enclosure firmware management

Access level/Bay level:

OA administrator

Restrictions:

None

ENABLE FIRMWARE MANAGEMENT

Command:

ENABLE FIRMWARE MANAGEMENT

Description:

Enables enclosure firmware management

Access level/Bay level:

OA administrator

Restrictions:

None

SET FIRMWARE MANAGEMENT

Command:

SET FIRMWARE MANAGEMENT { URL | POLICY | POWER | SCHEDULE | BAYS TO INCLUDE | FORCE DOWNGRADE }

Description:

Configures various enclosure firmware management settings

Access level/Bay level:

OA administrator

Restrictions:

None

SET FIRMWARE MANAGEMENT URL

Command:

SET FIRMWARE MANAGEMENT URL { DVD | <url> | NONE }

Description:

Sets the location on the management network of the HP Firmware ISO image. Supported protocols are HTTP, USB, and DVD. Format the URL as: protocol://host/path/filename. The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/filename. If Enclosure Firmware Management is disabled, NONE clears the location of the HP Firmware ISO image.

Access level/Bay level:

OA administrator

Restrictions:

If the image is being used, the URL cannot be changed.

SET FIRMWARE MANAGEMENT POLICY

Command:

SET FIRMWARE MANAGEMENT POLICY { MANUAL | AUTO DISCOVER | AUTO UPDATE }

Description:

Sets the Enclosure Firmware Management policy for the enclosure. To update and discover manually, use the MANUAL option. To automatically discover server firmware on insertion, use the AUTO DISCOVER option. To automatically update server firmware on insertion, use the AUTO UPDATE option.

Access level/Bay level:

OA administrator

Restrictions:

None

SET FIRMWARE MANAGEMENT POWER

Command:

SET FIRMWARE MANAGEMENT POWER { OFF | POWEROFF | FORCE }

Description:

Sets the Enclosure Firmware Management power control policy for the enclosure.

Access level/Bay level:

OA administrator

Restrictions:

- OFF—The server must be powered off or the Onboard Administrator cancels the operation. This setting is the default.
- POWEROFF—The Onboard Administrator attempts to softly shut down the server. This is equivalent to pressing the Momentary Press virtual button for the server. If server power remains on for more than five minutes, the Onboard Administrator cancels the operation.
- FORCE—The Onboard Administrator forces an immediate hard shutdown of the server. This is equivalent to pressing the Press and Hold virtual button for the server.

SET FIRMWARE MANAGEMENT SCHEDULE

Command:

SET FIRMWARE MANAGEMENT SCHEDULE { <YYYY-MM-DD> <HH:MM> | NONE }

Description:

Sets the date and time to run a scheduled update. Enclosure Firmware Management must be enabled and a firmware management URL must be specified. Use NONE to disable scheduled firmware updates.

Access level/Bay level:

OA administrator

Restrictions:

None

SET FIRMWARE MANAGEMENT BAYS TO INCLUDE SERVER

Command:

```
SET FIRMWARE MANAGEMENT BAYS TO INCLUDE SERVER { ALL | <bay number> [{ , |
- } <bay number>] | NONE }
```

Description:

Configures which server bays are included in the Enclosure Firmware Management policy. If bays were included in a previous operation, then you must reselect the bays.

Access level/Bay level:

OA administrator

Restrictions:

Bay ranges must be completely specified. Base bays, side a bays, and side b bays cannot be mixed in a single range. Ranges such as 1a-4b or 5-7a are not valid. For example, the following command designates base bays 1 through 5 only. Side a or side b bays are not included:

```
set firmware management bays to include server 1-5
```

Multiple ranges must be specified in the same statement, for example:

```
set firmware management bays to include server 1-4, 1a-3a, 1b-2b
```

The bays to include feature only applies to ProLiant server blades. Integrity server blades do not support this feature. Partner blade support is provided through the associated server blade based on whether the firmware ISO supports the PCle adapter card in the partner blade.

SET FIRMWARE MANAGEMENT FORCE DOWNGRADE

Command:

SET FIRMWARE MANAGEMENT FORCE DOWNGRADE { ENABLE | DISABLE }

Description:

Sets the firmware update force downgrade policy. Enable this option to force all devices to have firmware updated to the version supplied by the ISO, even if a newer version is currently installed on the device. This option is disabled by default.

Access level/Bay level:

OA administrator

Restrictions:

- When forcing a downgrade of the Onboard Administrator to an earlier version of the firmware, current settings that are inapplicable to the earlier version may be lost.
- When the Onboard Administrator is in VC mode and IPv6 is enabled, the Virtual Connect Manager may specify a minimum expected firmware version for the Onboard Administrator. When this situation occurs, disabling Onboard Administrator IPv6 communication prior to the downgrade attempt makes it possible for VC to interoperate with older Onboard Administrator versions.

SHOW FIRMWARE

Command:

SHOW FIRMWARE { MANAGEMENT | SUMMARY | LOG }

Displays all the firmware management settings followed by a list of all firmware in the enclosure. It includes a list of the extended server firmware information on all servers that have completed discovery or update.

SHOW FIRMWARE MANAGEMENT

Command:

SHOW FIRMWARE MANAGEMENT

Description:

Displays enclosure firmware management configuration settings

Access level/Bay level:

Αll

Restrictions:

None

Example:

OA-00215AB0EA21> show firmware management

Enclosure Firmware Settings

Enclosure: OA-984BE1601C55

Firmware Management: Enabled
- Force Downgrade: Enabled
- Firmware ISO URL: http://16.84.188.24/mycompany.com/FW.iso

- Firmware Power Policy: FORCE

- Firmware Policy: Automatic Update
- Firmware Date: Not Set

- Bays to Include

Server Bays: 1 1A 1B 2 2A 2B 3 3A 3B 4 4A 4B 5 5A 5B 6 6A 6B 7 7A 7B 8 8A 8B 9 9A 9B 10 10A 10B 11 11A 11B 12 12A 12B 13 13A 13B 14 14A 14B

15 15A 15B 16 16A 16B

Firmware ISO Information:

- ISO URL Status: Valid URL Version: 2012.02.0
Name: HP Smart Update Firmware DVD
- ISO OA Version: 3.60

SHOW FIRMWARE MANAGEMENT LOG

Command:

SHOW FIRMWARE MANAGEMENT LOG

Description:

Displays the enclosure firmware management log

Access level/Bay level:

OA Administrator

Restrictions:

None

SHOW FIRMWARE SUMMARY

Command:

SHOW FIRMWARE SUMMARY

Description:

Displays a summary of enclosure firmware components. An exclamation mark (!) indicates firmware mismatch or missing firmware information. If the CSV keyword is used, the summary will be output in CSV format.

- Access level/Bay level:
 - o All
 - Bay specific
- **Restrictions:**

You must have access to the specified bay number.

Example:

i I.O2 1.81 Jan 15 2010

Power Management Controller

Device Bay: 12

Discovered: Mon 2010-09-13 17:18:28

Current Version Firmware ISO Firmware Component

Version

_____ ____

A14 2009.12.09 A14 2009.12.09 System ROM

ILO2 1.81 1.82

Power Management Controller ERROR

HP NC532i Dual Port 10GbE Multifunction Boot code: 5.2.7 iSCSI: 3.1.5 Boot code: 5.2.7 iSCSI: 3.1.5

Device Bay: 13

Discovered: Mon 2010-09-13 17:19:08

Firmware Component Current Version Firmware ISO

Version

System ROM

1.70 1.82 TI_O2

Power Management Controller

HP NC373i Multifunction Gigabit Server Boot code: 4.4.1 Boot code: 4.4.1 CLP: 1.3.6 CLP: 1.3.6

HP NC373i Multifunction Gigabit Server Boot code: 4.4.1 CLP: 1.3.6 Boot code: 4.4.1 CLP: 1.3.6

1.86

Smart Array E200i 1.86

- DG036A8B53 (Bay 0) HPD7 HPD0 - DG036A9BB6 (Bay 1)

P700m SAS Controller 1.86 7.18

- DG036A8B53 (Bay 0) HPD7 - DG036A9BB6 (Bay 1) HPD0

Device Bay: 14A

Mon 2010-09-13 17:27:14 Discovered:

Firmware Component Current Version Firmware ISO

Version

I19 2009.07.10 I19 2009.07.10 System ROM

1.82 1.82 ILO2

Power Management Controller ERROR

HP NC326i PCIe Dual Port Gigabit Serve Boot code: 3.28 Boot code: 3.28

Device Bay: 14B Discovered: No

Current Version Firmware ISO Firmware Component

----- -----

I19 07/10/2009 1.79 Aug 28 2009

SHOW FIRMWARE SUMMARY CSV

Command:

SHOW FIRMWARE SUMMARY CSV

Description:

Displays a summary of enclosure firmware components in comma separated value format. An exclamation mark (!) indicates firmware mismatch or missing firmware information. If the CSV keyword is used, the summary will be output in CSV format.

Access level/Bay level:

- All
- Bay specific

Restrictions:

You must have access to the specified bay number.

Example:

```
OA-00215AB0EA21> show firmware summary csv
Bay Number, Device Name, Discovered, Firmware Component, Current Version,
Firmware ISO Version
1, ProLiant BL495c G5, No, System ROM, A14 12/09/2009, , iLO2, 1.82 Mar 31
2010, , Power Management Controller, , ,
2, ProLiant BL460c G6, Tue 2010-09-14 09:33:55, System ROM, I24 2010.03.30,
I24 2010.03.30, ILO2, 2.01, 1.82, Power, 3.4, 3.4, HP NC532i Dual Port 10GbE
Multifunction BL-c Adapter , Boot code: 5.2.7, Boot code: 5.2.7, HP NC532i
Dual Port 10GbE Multifunction BL-c Adapter, iSCSI: 3.1.5, iSCSI: 3.1.5, Smart
Array P410i, 3.00, 3.00, - DG072BB975 (Bay 0), HPDD, ,
3, ProLiant BL495c G5, Mon 2010-09-13 17:19:34, System ROM, A14 2009.12.09,
A14 2009.12.09, ILO2, 1.81, 1.82, Power Management Controller, ERROR, ,
4, ProLiant BL465c G1, Mon 2010-09-13 17:21:30, System ROM, A13 2009.12.08,
A13 2009.12.08, ILO2, 1.82, 1.82, Power Management Controller, 0.5, , HP
NC370i Multifunction Gigabit Server Adapter , Boot code: 1.9.6, Boot code:
1.9.6, HP NC370i Multifunction Gigabit Server Adapter , Boot code: 1.9.6,
Boot code: 1.9.6, Smart Array E200i, 1.86, 1.86,
5, ProLiant BL460c G1, Mon 2010-09-13 17:19:48, System ROM, I15 2009.07.10,
I15 2009.07.10, ILO2, 1.70, 1.82, Power Management Controller, , , HP NC373i
Multifunction Gigabit Server Adapter , Boot code: 4.4.1, Boot code: 4.4.1,
HP NC373i Multifunction Gigabit Server Adapter , CLP: 1.3.6, CLP: 1.3.6, HP
NC373i Multifunction Gigabit Server Adapter , Boot code: 4.4.1, Boot code:
4.4.1, HP NC373i Multifunction Gigabit Server Adapter , CLP: 1.3.6, CLP:
1.3.6, Smart Array E200i, 1.86, 1.86, - DG036A9BB6 (Bay 0), HPD0, ,
6A, ProLiant BL2x220c G5, Mon 2010-09-13 17:20:10, System ROM, I19
2009.07.10, I19 2009.07.10, ILO2, 1.79, 1.82, Power Management Controller,
6B, ProLiant BL2x220c G5, Mon 2010-09-13 17:24:17, System ROM, I19
2009.07.10, I19 2009.07.10, ILO2, 1.79, 1.82, Power Management Controller,
9, ProLiant BL460c G1, No, System ROM, I15 11/13/2007, , iLO2, 1.79 Aug 28
2009, , Power Management Controller, , ,
11, ProLiant BL460c G1, No, System ROM, I15 07/10/2009, , iLO2, 1.81 Jan 15
2010, , Power Management Controller, , ,
```

12, ProLiant BL495c G6, Mon 2010-09-13 17:18:28, System ROM, A14 2009.12.09, A14 2009.12.09, ILO2, 1.81, 1.82, Power Management Controller, ERROR, , HP NC532i Dual Port 10GbE Multifunction BL-c Adapter , Boot code: 5.2.7, Boot code: 5.2.7, HP NC532i Dual Port 10GbE Multifunction BL-c Adapter , iSCSI: 3.1.5, iSCSI: 3.1.5, 13, ProLiant BL460c G1, Mon 2010-09-13 17:19:08, System ROM, I15 2009.07.10, I15 2009.07.10, ILO2, 1.70, 1.82, Power Management Controller, , , HP NC373i Multifunction Gigabit Server Adapter , Boot code: 4.4.1, Boot code: 4.4.1, HP NC373i Multifunction Gigabit Server Adapter , CLP: 1.3.6, CLP: 1.3.6, HP NC373i Multifunction Gigabit Server Adapter , Boot code: 4.4.1, Boot code: 4.4.1, HP NC373i Multifunction Gigabit Server Adapter , CLP: 1.3.6, CLP: 1.3.6, Smart Array E200i, 1.86, 1.86, - DG036A8B53 (Bay 0), HPD7, , -DG036A9BB6 (Bay 1), HPD0, , P700m SAS Controller, 7.18, 1.86, - DG036A8B53 (Bay 0), HPD7, , - DG036A9BB6 (Bay 1), HPD0, , 14A, ProLiant BL2x220c G5, Mon 2010-09-13 17:27:14, System ROM, I19 2009.07.10, I19 2009.07.10, ILO2, 1.82, 1.82, Power Management Controller, ERROR, , HP NC326i PCIe Dual Port Gigabit Server Adapter , Boot code: 3.28, Boot code: 3.28, 14B, ProLiant BL2x220c G5, No, System ROM, I19 07/10/2009, , iLO2, 1.79 Aug 28 2009, , Power Management Controller, 3.4, ,

SHOW FIRMWARE LOG SERVER

Command:

SHOW FIRMWARE LOG SERVER { ALL | <bay number> [{ , | - } <bay number>] }

Description:

Displays the firmware log for the selected server or range of servers

Access level/Bay level:

- All
- Bay specific

Restrictions:

You must have access to the specified bay number.

Example:

OA-00215AB0EA21> show firmware log server 5

```
Bay 5 firmware log
Sep 13 17:09:01 Started session with iLO2.
Sep 13 17:09:01 Powering off blade with button press.
Sep 13 17:09:11 Blade successfully powered off.
Sep 13 17:09:11 Powering on blade with button press.
Sep 13 17:09:21 Blade has powered on.
Sep 13 17:09:24 Connected to Virtual Serial Port.
Sep 13 17:09:26 Inserted http://mycompany.com/DVD.iso into virtual CD-ROM.
Sep 13 17:09:26 Booting virtual CD-ROM.
Sep 13 17:10:03 Loading firmware image.
Sep 13 17:19:43 Update blade firmware successfully completed.
Sep 13 17:19:43 Blade has been rebooted.
Sep 13 17:19:45 Removed http://mycompany.com/DVD.iso from virtual CD-ROM.
Sep 13 17:19:45 Disconnect from Virtual Serial Port.
Sep 13 17:19:46 Terminated iLO2 session.
Sep 13 17:19:48 Firmware Management successfully completed.
```

SHOW FIRMWARE LOG SESSION

Command:

SHOW FIRMWARE LOG SESSION { ALL | <bay number> [{ , | - } <bay number>] }

Description:

Displays the firmware log session for the selected server or range of servers

Access level/Bay level:

- All
- Bay specific

Restrictions:

You must have access to the specified bay number.

SHOW SERVER FIRMWARF

Command:

```
SHOW SERVER FIRMWARE { ALL | <bay number> [{ , | - } <bay number>]}
```

Description:

Displays the firmware log for the selected server or range of servers. Displays a summary of firmware components in the specified server or range of servers. An exclamation mark (!) indicates firmware mismatch or missing firmware information.

Access level/Bay level:

- All
- Bay specific

Restrictions:

- You must have access to the specified bay number.
- Different sides of the server bay cannot be designated within the same range.

Example:

```
OA-00215AB0EA21> show server firmware 5
Device Firmware Information
Device Bay:
Discovered: Mon 2010-09-13 17:19:48
                                              Current Version Firmware ISO
Firmware Component
                                            System ROM
                                                                     1.82
ILO2
                                              1.70
Power Management Controller
                                             3.4
                                                                      3.4
HP NC373i Multifunction Gigabit Server Boot code: 4.4.1

CLP: 1.3.6

HP NC373i Multifunction Gigabit Server Boot code: 4.4.1

CLP: 1.3.6

Boot code: 4.4.1

CLP: 1.3.6

Boot code: 4.4.1

CLP: 1.3.6

Smart Array E200i
                                                                      1.86
Smart Array E200i
                                             1.86
- DG036A9BB6 (Bay 0)
                                             HPD0
```

UPDATE FIRMWARE SERVER

Command:

UPDATE FIRMWARE SERVER { ALL | <bay number> [{ , | - } <bay number>]}

Description:

Initiates manual update of the selected servers, using the configured HP firmware ISO image URL.

Access level/Bay level:

OA administrator, server administrator

Restrictions:

You must have access to the specified bay number.



CAUTION: When a firmware upgrade is in process, do not disconnect or power down the server or the Onboard Administrator until the upgrade is finished.

Blade management commands

CONNECT SERVER

Command:

CONNECT SERVER [SERIAL] <bay number>

Description:

Opens a Text Console session to the iLO specified. If the optional argument SERIAL is specified, a Virtual Serial Port session is started.

Access level/Bay level:

Αll

Bay specific

Restrictions:

The User privilege level cannot use the CONNECT SERVER SERIAL command. User accounts don't have console privileges.

HPONCFG

Command:

```
HPONCFG [NOAUTOLOGIN] [SUBSTITUTE [TEST] {"variable"="value"
[,"variable"="value"[,...]]}] {ALL | <bay number> [{ , | - } <bay number>]}
{<<} <end marker> <\n>| <from url> [<to url>]<\n> <end marker>}
```

Description:

Sends a RIBCL iLO configuration script to the specified HP ProLiant server blades with the access level and privilege of the current user. The script is an XML file. To use the login credentials in the script as is, specify NOAUTOLOGIN.

To use variable substitution, specify the SUBSTITUTE keyword followed by a list of variable assignments. The list of variable assignments must be a string that contains each variable name and its corresponding value. Each variable assignment (the variable name and assigned value) must be separated by an equal sign (=), and the name and the value should each be enclosed by double quotes. Separate multiple key value pairs with a ',' (comma) delimiter.

You can download the script from a FTP, TFTP, HTTP, or HTTPS URL (<from URL>). You can upload the results to a TFTP or FTP location (<to URL>).

To manually enter a RIBCL:

- a. Type "<<" followed by a space.
- **b.** Enter a string that does not appear within the RIBCL script (the end marker).
- c. Enter a newline character by pressing **ENTER**.
- d. Paste the RIBCL script.
- Enter a newline character by pressing **ENTER**.

f. Finish the command with the end marker.

To view the RIBCL script that will be sent to the iLO, specify TEST.

Access level/Bay level:

Αll

Bay specific

Restrictions:

- You must have access to the specified bays.
- For the iLO Update Firmware script, the Onboard Administrator must be able to download the iLO firmware file referenced in the script within 2 minutes.
- This command is not applicable to HP Integrity server blades.
- To use variable substitution, HPONCFG 1.2 or greater is required. Variables must be specified in the XML RIBCL script before executing the HPONCFG command. Anything enclosed by two % characters in the XML file is considered a variable.
- Quotes are required for strings containing spaces.
- Variable assignments:
 - Variable name and the value can include spaces, numbers, or any printable characters.
 - Up to 25 variables are supported.
 - The maximum length of a variable name is 48 characters.
 - The maximum length of a variable value is 256 characters.

Example:

The following command specifies an iLO configuration script for bay 1, using variable substitution. The end marker is "EOF". The TEST command displays the RIBCL script, and so the script is not executed.

```
OA-9C8E99224631 [SCRIPT MODE]> HPONCFG SUBSTITUTE TEST
"username"="riosa", "user"="riosa", "password"="password" 1 << EOF
<RIBCL VERSION="2.0">
<LOGIN USER LOGIN="%s" PASSWORD="%s">
<USER INFO MODE="write">
<ADD USER USER NAME="%username%" USER LOGIN="%user%"</pre>
PASSWORD="%password%">
  </ADD USER>
  </USER INFO>
  </LOGIN>
  </RIBCL>
EOF
Bay 1: Resulting RIBCL script.
<RIBCL VERSION="2.0">
<LOGIN USER LOGIN="hiddenValue" PASSWORD="hiddenValue">
<USER INFO MODE="write">
<ADD USER USER NAME="riosa" USER LOGIN="riosa" PASSWORD="password">
  </ADD USER>
  </USER INFO>
  </LOGIN>
  </RIBCL>
```

POWEROFF SERVER

CAUTION: This command can cause a server blade to lose data or become unstable.

Command:

```
POWEROFF SERVER {ALL | <bay number> [{ - | , } <bay number>]} [FORCE]
```

Description:

- Performs a graceful shutdown of the server in the specified bay.
- This command returns the user to the CLI immediately but the shutdown actions can take up to 5 minutes to complete.
- o If the FORCE argument is given, the server blade is immediately shut down and might lose data or become unstable.
- o If no blade is in the specified bay, you are notified that the bay is empty.

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

- You must have access to the specified bay number.
- This command is not applicable to storage blades. The FORCE argument is only valid for server bays.

POWERON SERVER

Command:

```
POWERON SERVER {ALL | <bay number> [{ - | , } <bay number>]} [{NORMAL | PXE
| HDD | RBSU | CD | FLOPPY | USB }]
```

Description:

- Powers on the specified server blade or all server blades.
- Adding an optional boot argument forces the server blade to abandon the regular boot order and boot using the specified method.
- If no blade is in the specified bay, you are notified that the bay is empty.

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

- You must have access to the specified bay number.
- This command is not applicable to storage blades.

REBOOT SERVER

Command:

```
REBOOT SERVER { ALL | <bay number> [{ , | - } <bay number>]} [FORCE] [{ NORMAL
|PXE | HDD | RBSU | CD | FLOPPY | USB }]
```

Description:

- Sends a request to the server to perform a system reset.
- If the FORCE option is specified, a request is sent to the server to perform a cold boot resulting in the server being power cycled.
- When a one-time boot device is specified, the server boots to the target device on the resulting server reboot.



WARNING: Executing this command does not provide the server OS the opportunity to perform a graceful shutdown.

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

- You must have access to the specified bay number.
- This command is not applicable to storage blades.

SET NIC

Command:

```
SET NIC {AUTO | FORCED}
```

Description:

Configures the external NIC for Auto-negotiation or forced link settings.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET SERVER BOOT

Command:

```
SET SERVER BOOT {FIRST | ONCE} {NORMAL | CD | HDD | PXE | USB | FLOPPY} {ALL
| <bay number> [{ - | , } <bay number>]}
```

Description:

- Stores a setting for the IPL to be passed to the specified servers at the next reboot.
- SET SERVER BOOT FIRST (on page 155) sets the boot order of the blade.

SET SERVER BOOT ONCE (on page 155) sets the boot device to be used on the next boot of the bays specified.

Access level/Bay level:

OA administrator, OA operator

Bay specific

Restrictions:

- You must have access to the specified bay number.
- This command is not applicable to storage blades.
- This command is not applicable to HP Integrity server blades.
- The RBSU and NORMAL options are only available for SET SERVER BOOT ONCE.
- The USB option is only available for SET SERVER BOOT FIRST.
- This setting is only valid on present blades and cleared if the blade is removed.
- This version of Onboard Administrator firmware does not support boot options for servers configured in UEFI boot mode.

SET SERVER BOOT FIRST

Command:

```
SET SERVER BOOT FIRST {HDD | FLOPPY | PXE | CD} {ALL | <bay number> [{ - |
, } <bay number>]}
```

Description:

- Stores a setting for the IPL to be passed to the specified servers at the next reboot.
- HDD sets the boot order of the blade to Hard Disk Drive, PXE.
- PXE sets the boot order of the blade to PXE, Hard Disk Drive.
- Sets the boot device to be used on the next boot of the bays specified.

Access level/Bay level:

OA administrator, OA operator

Bay specific

Restrictions:

- You must have access to the specified bay number.
- This command is not applicable to storage blades.
- This command is not applicable to HP Integrity server blades.
- This setting is valid only on present blades and is cleared if the blade is removed.
- This version of Onboard Administrator firmware does not support boot options for servers configured in UEFI boot mode.

SET SERVER BOOT ONCE

Command:

```
SET SERVER BOOT ONCE {NORMAL | HDD | FLOPPY | PXE | RBSU | CD} {ALL | <bay
number> [{ - | , } <bay number>]}
```

Description:

- Stores a setting for the IPL to be passed to the specified servers at the next reboot.
- HDD sets Hard Disk Drive as the boot device to be used on the next boot.
- PXE sets the PXE Server as the boot device to be used on the next boot.
- RBSU sets the ROM Based Setup Utility as the boot device to be used on the next boot.
- Sets the boot device to be used on the next boot of the bays specified.

Access level/Bay level:

OA administrator, OA operator Bay specific

Restrictions:

- You must have access to the specified bay number.
- This command is not applicable to storage blades.
- This command is not applicable to HP Integrity server blades.
- This setting is valid only on present blades and is cleared if the blade is removed.
- This version of Onboard Administrator firmware does not support boot options for servers configured in UEFI boot mode.

SET SERVER POWERDELAY

Command:

SET SERVER POWERDELAY {ALL | <bay number> [{ - | , } <bay number>]} {number of seconds to delay power | NOPOWERON }

Description:

Set the PowerDelay status for the specified server or range of servers. If the delay is zero, the delay has no effect on the device. If the delay is NOPOWERON, the device cannot poweron until all devices have completed their delays.

Access level/Bay level:

Administrator

Bay specific

Restrictions:

You must have access to the specified bay number.

SET SERVER UID

Command:

```
SET SERVER UID {ALL | <bay number> [{ - | , } <bay number>]} {ON | OFF}
```

Description:

Turns a server blade UID LED on or off

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have access to the specified bay number.

SHOW SERVER BOOT

Command:

```
SHOW SERVER BOOT {ALL | <bay number> [{ - | , } <bay number>]}
```

Description:

Displays the boot settings for the specified servers.

Access level/Bay level:

Αll

Bay specific

Restrictions:

- You must have access to the specified bay.
- This command is not applicable to HP Integrity server blades.
- Different sides of the server bay cannot be designated within the same range.

Example:

```
OA-0018FE27577F> SHOW SERVER BOOT 1
Server Blade #1 Boot Information:
        One time boot from: None
         IPL Devices (Boot Order):
                CD-ROM
                Floppy Drive (A:)
                Hard Drive (C:)
                PXE NIC 1
```

SHOW SERVER INFO

Command:

```
SHOW SERVER INFO {ALL | <bay number> [{ , | - } <bay number>]}
```

Description:

Displays the following fields:

- Type
- Name
- Part number
- Serial number
- Asset tag
- BIOS version
- All CPU types and associated maximum speeds
- Memory

- NICs name and slot number
- o iLO name, iLO IP address, and iLO firmware version
- Power Management Controller version
- VLAN ID
- IPv6 information
- iLO Federation capability

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have access to the specified bay number.

IP Address: 10.0.0.111

MAC Address: 9C:8E:99:17:02:1E

Power Management Controller Version: 1.6

- MAC and WWN information is no longer included in the output for this command with Onboard Administrator firmware version 3.60.
- Different sides of the server bay cannot be designated within the same range.

Example:

```
OA-984BE179846D> show server info 11
Server Blade #11 Information:
        Type: Server Blade
        Manufacturer: HP
        Product Name: ProLiant BL460c G7
        Part Number: 603591-B21
        System Board Spare Part Number: 605659-001
        Serial Number: MXO1281CFX
        UUID: 35333036-3139-584D-5131-323831434658
        Server Name: host is unnamed
        Asset Taq: [Unknown]
        ROM Version: I27 05/05/2011
        CPU 1: Intel(R) Xeon(R) CPU E5506 @ 2.13GHz (4 cores)
        CPU 2: Not present
        Memory: 6144 MB
        FlexFabric Embedded Ethernet
                                              9C:8E:99:1F:CA:30
          Ethernet LOM:1-a
                                              9C:8E:99:1F:CA:31
         iSCSI HBA LOM:1-b
          FCoE HBA LOM:1-b
                                             10:00:9C:8E:99:1F:CA:
         Ethernet LOM:2-a
                                             9C:8E:99:1F:CA:34
         iSCSI HBA LOM:2-b
                                             9C:8E:99:1F:CA:35
          FCoE HBA LOM:2-b
                                              10:00:9C:8E:99:1F:CA:
        This server does not contain any mezzanine cards
Management Processor Information:
        Type: iLO3
        Name: ILOMXQ1281CFX
        Firmware Version: 1.50 Apr 14 2012
```

```
Management Processor IPv6 Information:
       Link Local Address: fe80::9e8e:99ff:fe17:21e/64
        Static Address: 4001::1/64
        Stateless address autoconfiguration (SLAAC):
2001:1::9e8e:99ff:fe17:21e/64
        Stateless address autoconfiguration (SLAAC):
2003:2::9e8e:99ff:fe17:21e/64
        iLO Federation capable: Yes
```

SHOW SERVER LIST

Command:

SHOW SERVER LIST [IPV6]

Description:

- Displays a brief description of all server blades to which the current user has access
- o Displays by default IPv4 information; to display IPv6 information, enter the IPV6 keyword

Access level/Bay level:

Αll

Bay specific

Restrictions:

- You must have access to the specified bay number.
- Use the IPV6 keyword to display IPv6 address and address type only.

Example:

OA-0018FE27577F> SHOW SERVER LIST

```
Bay iLO Name
                       iLO IP Address Status Power UID
Partner
 1 [Absent]
10 ILOMXQ1281CDZ
                 192.168.13.109 OK On
                                                   Off
11 [Absent]
Totals: 1 server blades installed, 0 powered on.
OA-0018FE27577F> SHOW SERVER LIST IPV6
Bay iLO Name
                        iLO IP Address
_____
 1 [Absent]
```

```
10 ILOMXQ1281CDZ
                                  fe80::9e8e:99ff:fe17:b0f9
LL
                                  2001::aaaa:bbbb:6666
Static
2001:acdc:aabb:bbcc:ccdd:dddd:eeee:20b
                                      DHCP
11 [Absent]
Totals: 1 server blades installed, 0 powered on.
```

SHOW SERVER NAMES

Command:

SHOW SERVER NAMES

Description:

Displays a brief description of all server blades to which the current user has access

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have access to the specified bay number.

Example:

OA-0018FE27577F> show server names show server names

Bay Server Name Partner	Serial Number	Status	Power	UID
1 First89123HostNameInILO	USM64204B1	OK	On	Off
2 Integrity BL860c	CSJ0634214	OK	On	Off
3 [Absent]				
4 [Absent]				
5 [Subsumed]				
6 [Subsumed]				
7 YOUR-EYZCGYAYBB	USM62401EP	OK	On	On
8 [Absent]				

Totals: 3 server blades installed, 3 powered on.

SHOW SERVER PORT MAP

Command:

```
SHOW SERVER PORT MAP {ALL | <bay number> [{ , | - } <bay number>]}
```

Description:

Displays the port mapping for the server specified by the bay number

Access level/Bay level:

All

Bay specific

Restrictions:

- You must have access to the specified bay number.
- This command is not applicable to storage blades.
- Different sides of the server bay cannot be designated within the same range.

Example:

OA-0018FE27577F> SHOW SERVER PORT MAP ALL

	Mezz				
			Interconnect Bay		t Device ID
			- Blade 001		
	Not Present				
	Not Present				
3	Not Present				
	Embedded Eth Port 1		Bay 1	Port 5	00:19:BB:24:51:0C
	iscsi 1			Port 5	00:19:BB:24:51:0C
	Port 2		_	Port 13	00:19:BB:24:51:24
	iSCSI 2	OK	Bay 1	Port 13	00·19·BB·24·51·25
	Port 3	OK	Bay 1	Port 1	00:19:BB:21:ED:EF
	Port 4	OK	Bay 1	Port 9	00:19:BB:21:ED:F0
			- Blade 002		
	Not Present				
	Not Present				
3	Not Present Embedded Eth	0 77 0 +			
	Port 1		Bay 1	Port 6	00:19:BB:34:A1:5A
	iSCSI 1		Bay 1	Port 6	00:19:BB:34:A1:5B
	Port 2		Bay 1	Port 14	00:19:BB:34:91:FE
	iSCSI 2	OK	Bay 1	Port 14	00:19:BB:34:91:FF
	Port 3	OK	Bay 1	Port 2	00:19:BB:29:91:33
	Port 4	OK	Bay 1	Port 10	00:19:BB:29:91:34
			- Blade 003		
<absei< td=""><td>nt></td><td></td><td></td><td></td><td></td></absei<>	nt>				
			Dlada 004		
	Not Present		- втаие 004 		
	Not Present				
	Embedded Eth	ernet			
	Port 1	OK	Bay 1	Port 4	00:16:35:C5:EF:26
	iSCSI 1				00:16:35:C5:EF:27
	Port 2				00:16:35:C5:EF:3A
	iSCSI 2	OK	Bay 1	Port 12	00:16:35:C5:EF:3B
			Blade 005		

<absent></absent>			
 <absent></absent>	Blade	006	
 <absent></absent>	Blade	007	
<absent></absent>	Blade	008	

SHOW SERVER POWERDELAY

Command:

SHOW SERVER POWERDELAY {ALL | <bay number> [{ - | , } <bay number>]}

Description:

Displays the PowerDelay status for the specified server blade or range of server blades

Access level/Bay level:

Αll

Bay specific

Restrictions:

- You must have access to the specified bay number.
- Different sides of the server bay cannot be designated within the same range.

Example:

OA-0018FE27577F> SHOW SERVER POWERDELAY ALL Current PowerDelay Status: Not in Progress

Bay	Device	PowerDelay State	Delay (seconds)
1	Absent	Disabled	0
1A	Absent	Disabled	0
1B	Absent	Disabled	0
2	Subsumed	Disabled	0
2A	ProLiant BL2x220c G5	Disabled	0
2B	ProLiant BL2x220c G5	Disabled	0
3	Absent	Disabled	0
ЗА	Absent	Disabled	0
3B	Absent	Disabled	0
4	Absent	Disabled	0
4A	Absent	Disabled	0
4B	Absent	Disabled	0
5	Absent	Disabled	0
5A	Absent	Disabled	0
5B	Absent	Disabled	0
6	Absent	Disabled	0
6A	Absent	Disabled	0
6B	Absent	Disabled	0
7	ProLiant BL460c G1	Disabled	0
7A	Absent	Disabled	0
7B	Absent	Disabled	0

8	AiO SB600c S	Storage	Disabled	0
8A	Absent		Disabled	0
8B	Absent		Disabled	0

SHOW SERVER STATUS

Command:

```
SHOW SERVER STATUS {ALL | <bay number> [{ , | - } <bay number>]}
```

Description:

Displays the following settings of server blade:

- Power (OK or off)
- Health (OK, CPU failure, or power module failure)
- Thermal (OK, warm, caution, or critical)
- UID LED

If the power management controller is outdated or is in a lockup condition, a power management controller error appears.

Access level/Bay level:

Αll

Bay specific

Restrictions:

- You must have access to the specified bay number.
- Different sides of the server bay cannot be designated within the same range.

Example:

```
OA-0018FE27577F> show server status all
Blade #1 Status:
        Power: On
        Current Wattage used: 212
        Health: OK
        Unit Identification LED: Off
        Diagnostic Status:
                Internal Data
                                     OK
                Management Processor OK
                I/O Configuration OK
                Power
                                     OK
                Cooling
                                     OK
                Location
                                     OK
                Device Failure
                                     OK
                Device Failure
Device Degraded
                                     OK
                iLO Network
                                     OK
Blade #2 Status:
        Power: On
        Current Wattage used: 360
        Internal Health: OK
        System Health: Degraded
        Unit Identification LED: Off
        Diagnostic Status:
                Internal Data
                Management Processor OK
                I/O Configuration
```

```
Power
                                     OK
                Cooling
                                     OK
                Location
                                     OK
                Device Failure
                                     OK
                Device Degraded
                                     OK
Blade #3 Status:
        Power: No Server Blade Installed
Blade #4 Status:
        Power: No Server Blade Installed
Blade #5 Status:
        Server Blade Type: Bay Subsumed
Blade #6 Status:
       Server Blade Type: Bay Subsumed
Blade #7 Status:
        Power: On
        Current Wattage used: 153
        Health: Degraded
        Unit Identification LED: On
        Diagnostic Status:
                Internal Data
                Management Processor OK
                I/O Configuration OK
                Power
                                     OK
                Cooling
                                     OK
                Location
                                     OK
                Device Failure
                                     OK
                Device Degraded
                                     Failed
                iLO Network
        IML Reported Main Memory Errors
                Uncorrectable Memory Error
                        Processor 1, Memory Module 2
                Corrected Memory Error threshold exceeded
                        Processor 1, Memory Module 2
```

Example of Power Management Controller Error:

OA-00215AB0DAF1> show server status 12

```
Blade #12 Status:
Power: On
Current Wattage used: 143
Health: Other Unit Identification
LED: Off Virtual
Fan: 27%
Diagnostic Status:
      Internal Data
                              OK
      Management Processor
                              OK
      I/O Configuration
                              OK
      Power
                              OK
      Cooling
                              OK
      Location
                              OK
      Device Failure
                              OK
      Device Degraded
                              OK
      iLO Network
                              OK
      Power Mgmt Cntlr
                          Other
```

SHOW SERVER TEMP

Command:

Description:

Displays the temperature sensor information for a specified server blade or range of server blades

Access level/Bay level:

Αll

Bay specific

Restrictions:

- You must have access to the specified bay number.
- o Different sides of the server bay cannot be designated within the same range.

Example:

OA-0018FE27577F> SHOW SERVER TEMP	ALL			
Device Bay #1 Temperature Informat	ion			
Locale	Status	Temp	Caution	
Critical				
Memory Zone	OK	37C/ 98F	81C	86C
CPU Zone	OK	30C/ 86F	70C	75C
CPU 1	OK	34C/ 93F	95C	100C
CPU 1	OK	34C/ 93F	95C	100C
Ambient Zone	OK	20C/ 68F	38C	43C
CPU 2	OK	N/A		
CPU 2	OK	N/A		

Virtual Fan: 379	Vir	tual	Fan:	37%
------------------	-----	------	------	-----

on Status	Temp	Caution	
OK	44C/111F	81C	86C
OK	39C/102F	70C	75C
OK	58C/ 0F	95C	100C
OK	58C/ OF	95C	100C
OK	26C/ 78F	40C	45C
OK	58C/ OF	95C	100C
OK	58C/ OF	95C	100C
OK	24C/ 75F	40C	45C
	OK OK OK OK OK OK OK OK	OK 44C/111F OK 39C/102F OK 58C/ 0F OK 58C/ 0F OK 26C/ 78F OK 58C/ 0F OK 58C/ 0F	Status Temp Caution OK 44C/111F 81C OK 39C/102F 70C OK 58C/ 0F 95C OK 58C/ 0F 95C OK 26C/ 78F 40C OK 58C/ 0F 95C OK 58C/ 0F 95C OK 58C/ 0F 95C

Virtual Fan: 51%

Device Bay #3 Temperature Information No Server Blade Installed

Device Bay #4 Temperature Informati Locale Critical	on Status	Temp	Caution	
System Zone	OK	41C/105F	80C	85C
CPU Zone	OK	36C/ 96F	65C	70C
CPU 1	OK	53C/127F	95C	100C
CPU 1	OK	53C/127F	95C	100C

			055/ 055	50	
CPU Zone		OK	35C/ 95F	70C	75C
CPU 2		OK	N/A		
CPU 2		OK	N/A		
Memory Zone		OK	56C/ 0F	85C	100C
Ambient Zone		OK	22C/ 71F	38C	43C
Virtual Fan: 25%					
-	nperature Informat ade Type: Bay Sub				
-	mperature Informat ade Type: Bay Sub				
-	nperature Informat Blade Installed	ion			
-	mperature Informat Blade Installed	ion			

SHOW SYSLOG SERVER

Command:

SHOW SYSLOG SERVER { All | <bay number> [{ , | - } <bay number>]}

Description:

Displays the syslog for the specified server blade

Access level/Bay level:

Αll

Bay specific

Restrictions:

- You must have access to the specified bay number.
- This command is not applicable to HP Integrity server blades.

Example:

```
OA-0018FE27577F> show syslog server 7
Retrieving Server syslog(s) ...
       7 Syslog:
Server
<EVENT LOG DESCRIPTION="Integrated Management Log">
 <EVENT
  SEVERITY="Informational"
  CLASS="Rack Infrastructure"
  LAST UPDATE="10/07/2007 23:51"
  INITIAL UPDATE="10/07/2007 23:51"
  COUNT="1"
  DESCRIPTION="Server Blade Enclosure LAN Settings Changed (Enclosure Serial
Num
ber shorty-lab)"
 />
 <EVENT
 SEVERITY="Informational"
  CLASS="Rack Infrastructure"
  LAST UPDATE="10/08/2007 01:31"
```

```
INITIAL UPDATE="10/08/2007 01:31"
  COUNT="1"
  DESCRIPTION="Server Blade Enclosure LAN Settings Changed (Enclosure Serial
ber shorty-lab)"
 />
 <EVENT
 SEVERITY="Informational"
 CLASS="Rack Infrastructure"
 LAST UPDATE="10/08/2007 01:46"
  INITIAL UPDATE="10/08/2007 01:46"
  COUNT="1"
  DESCRIPTION="Server Blade Enclosure LAN Settings Changed (Enclosure Serial
ber shorty-lab)"
 />
 <EVENT
 SEVERITY="Informational"
  CLASS="Rack Infrastructure"
  LAST UPDATE="10/08/2007 01:54"
  INITIAL UPDATE="10/08/2007 01:54"
  COUNT="1"
  DESCRIPTION="Server Blade Enclosure LAN Settings Changed (Enclosure Serial
ber shorty-lab)"
 />
 <EVENT
  SEVERITY="Informational"
 CLASS="Rack Infrastructure"
  LAST UPDATE="10/08/2007 13:54"
  INITIAL UPDATE="10/08/2007 13:54"
  COUNT="1"
  DESCRIPTION="Server Blade Enclosure LAN Settings Changed (Enclosure Serial
Num
ber shorty-lab)"
/>
--More--
```

UNASSIGN SERVER

Command:

UNASSIGN SERVER {ALL | <bay number> [{ , | - } <bay number>]} {"<user name>" | LDAP GROUP "<LDAP group name>"}

Description:

Removes specified servers from control of the user or group to which they are currently assigned

Access level/Bay level:

OA administrator

Restrictions:

None

Interconnect management commands

ASSIGN INTERCONNECT

Command:

ASSIGN INTERCONNECT {ALL | <bay number> [{ , | - } <bay number>]} {"<user name | LDAP GROUP <LDAP group name>"}

Description:

Assigns interconnects specified to an existing user or group

Access level/Bay level:

OA administrator

Restrictions:

None

CLEAR INTERCONNECT SESSION

Command:

Description:

Terminates a serial console session of a user on an interconnect. The termination is not graceful and the user loses any unsaved work.

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

CONNECT INTERCONNECT

Command:

CONNECT INTERCONNECT <bay number>

Description:

Connects the user to the serial console of the interconnect present in the interconnect module bay

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

POWEROFF INTERCONNECT

Command:

POWEROFF INTERCONNECT {ALL | <bay number> [{ - | , } <bay number>]}

Description:

Sends a request to power off the interconnect module

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

POWERON INTERCONNECT

Command:

POWERON INTERCONNECT {ALL | <bay number> [{ - | , } <bay number>]}

Description:

Powers on the specified interconnect

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

RESTART INTERCONNECT

Command:

RESTART INTERCONNECT <bay number>

Description:

Resets the interconnect tray in the specified bay

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

SET INTERCONNECT ADMIN_PASSWORD **FACTORY**

Command:

SET INTERCONNECT ADMIN PASSWORD FACTORY [<bay number>]

Description:

Causes the interconnect to change the Administrator password to the factory default. When you issue the command, you are prompted to confirm that this is your intention. To proceed with the change, answer YES. Upon successful execution of the command, the following message is logged to the Onboard Administrator syslog:

OA: Interconnect module x Admin password has been reset by user Administrator.

If the interconnect does not support the command, the Onboard Administrator displays the following

This command is not supported by the interconnect.

Access level/Bay level:

Administrator

Bay specific

Restrictions:

You must have access to the specified bay number.

SET INTERCONNECT FACTORY

Command:

SET INTERCONNECT FACTORY [<bay number>]

Description:

- Causes the interconnect to perform a factory reset, restoring all settings to their factory defaults.
- Causes the Administrator password to be reset to the default factory password.
- All configuration data and connections will be lost. You are prompted to confirm that you want to restore factory settings. To proceed with the change, answer YES. Upon successful execution of the command, the following message is logged to the Onboard Administrator syslog:

OA: Interconnect module x has been Factory Reset by user Administrator.



IMPORTANT: Before resetting factory defaults, save your configuration.

 If the interconnect does not support the command, the Onboard Administrator displays the following message:

This command is not supported by the interconnect.

Access level/Bay level:

Administrator

Bay specific

Restrictions:

You must have access to the specified bay number.

SET INTERCONNECT POWERDELAY

Command:

SET INTERCONNECT POWERDELAY {ALL | <bay number> [{ - | , } <bay number>]} {number of seconds to delay power | NOPOWERON}

Description:

Sets the PowerDelay status for the specified interconnect or range of interconnects. If the delay is zero, the delay has no effect on the device. If the delay is NOPOWERON, the device cannot power on until all devices have completed their delays.

Access level/Bay level:

Administrator

Bay specific

Restrictions:

You must have access to the specified bay number.

SET INTERCONNECT UID

Command:

SET INTERCONNECT UID {ALL | <bay number> [{ , | - } <bay number>]} {ON | OFF}

Description:

Turns an interconnect UID on or off

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

SHOW INTERCONNECT

Command:

SHOW INTERCONNECT {INFO | LIST [IPV6] | PORT MAP | POWERDELAY | SESSIONS | STATUS} [ALL | <bay number> | <bay number>-<bay number>]

Description:

- Displays the following information, depending on the keyword specified:
 - Interconnect type
 - IPv4 information
 - IPv6 information
 - Manufacturer name

- Product name
- Product part number
- Product version
- Product serial number
- Asset tag
- VLAN ID
- INTERCONNECT STATUS displays status information, UID state, and health state for the specified interconnects.
- o INTERCONNECT PORT MAP displays port mapping information for the specified interconnects.
- INTERCONNECT SESSIONS shows which users, if any, have serial console sessions in progress for each interconnect.
- INTERCONNECT POWERDELAY shows the status and delay times for the specified interconnects.
- See also the SHOW INTERCONNECT INFO (on page 173) and SHOW INTERCONNECT LIST (on page 175) commands.

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

Example:

```
OA-0018FE27577F> show interconnect info 1
show interconnect info all
```

1. Ethernet

```
Product Name: HP VC FlexFabric 10Gb/24-Port Module
Width: Single
URL to Management interface: http://172.16.1.70/
In-Band IPv4 Address: 172.16.1.70
User Assigned Name:
Part Number: 571956-B21
Spare Part Number: [Unknown]
Serial Number: TW29460027
Temperature Sensor: Present
JS2 Connector: Absent
Internal Ethernet Interface to OA: Present
Internal Ethernet Route to OA: Enabled
Internal Serial Interface to OA: Present
Internal Serial Route to OA: Enabled
Serial Port Baud Rate: 115200
External Serial Port Interface: Absent
External Ethernet Interface: Absent
Manufacturer: HP
Firmware Version: 4.10
```

SHOW INTERCONNECT INFO

Command:

SHOW INTERCONNECT INFO {PORT MAP | POWERDELAY | SESSIONS | STATUS} [ALL | <bay number> | <bay number>-<bay number>]

Description:

Displays:

- Interconnect type
- IPv4 information
- IPv6 information
- Manufacturer name
- Product name
- Product part number
- Product version
- Product serial number
- Asset tag
- VLAN ID

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

Example:

```
OA-0018FE27577F> show interconnect info all
show interconnect info all
```

1. Ethernet

```
Product Name: HP VC Flex-10 Enet Module
Width: Single
URL to Management interface: http://172.16.1.149/
In-Band IPv4 Address: 172.16.1.149
User Assigned Name:
Part Number: 455880-B21
Spare Part Number: 456095-001
Serial Number: TW2931005D
Temperature Sensor: Present
JS2 Connector: Absent
Internal Ethernet Interface to OA: Present
Internal Ethernet Route to OA: Enabled
Internal Serial Interface to OA: Present
Internal Serial Route to OA: Enabled
Serial Port Baud Rate: 115200
External Serial Port Interface: Absent
External Ethernet Interface: Absent
Manufacturer: HP
Firmware Version: 4.10
VLAN ID: 1
```

IPv6 Information: LL Address: fe80::223:7dff:fe43:9c4e/64 LL URL: http://[fe80::223:7dff:fe43:9c4e] SLAAC Address: 1000::223:7dff:fe43:9c4e/64 SLAAC URL: http://[1000::223:7dff:fe43:9c4e] DHCPv6 Address: 1000::56d5:ce5e:3a8e:b91a/64 DHCPv6 URL: http://[1000::56d5:ce5e:3a8e:b91a] 2. Ethernet Product Name: HP VC Flex-10 Enet Module Width: Single URL to Management interface: http://172.16.2.156/ In-Band IPv4 Address: 172.16.2.156 User Assigned Name: Part Number: 455880-B21 Spare Part Number: 456095-001 Serial Number: TW28420199 Temperature Sensor: Present JS2 Connector: Absent Internal Ethernet Interface to OA: Present Internal Ethernet Route to OA: Enabled Internal Serial Interface to OA: Present Internal Serial Route to OA: Enabled Serial Port Baud Rate: 115200 External Serial Port Interface: Absent External Ethernet Interface: Absent Manufacturer: HP Firmware Version: 4.10 VLAN ID: 1 TPv6 Information: LL Address: fe80::21c:c4ff:fefa:16d8/64 LL URL: http://[fe80::21c:c4ff:fefa:16d8] SLAAC Address: 1000::21c:c4ff:fefa:16d8/64 SLAAC URL: http://[1000::21c:c4ff:fefa:16d8] DHCPv6 Address: 1000::9217:4323:14a:1e2/64 DHCPv6 URL: http://[1000::9217:4323:14a:1e2] 3. <absent> 4. <absent> 5. <absent> 6. <absent> 7. <absent> 8. Fibre Channel Product Name: HP 4Gb VC-FC Module Width: Single URL to Management interface: In-Band IPv4 Address: 0.0.0.0 User Assigned Name: Part Number: 409513-B21 Spare Part Number: 410152-001 Serial Number: MXK743004L Temperature Sensor: Present JS2 Connector: Absent Internal Ethernet Interface to OA: Present Internal Ethernet Route to OA: Enabled Internal Serial Interface to OA: Absent

Internal Serial Route to OA: Enabled

External Serial Port Interface: Absent External Ethernet Interface: Absent

Manufacturer: HP VLAN ID: 1

SHOW INTERCONNECT LIST

Command:

SHOW INTERCONNECT LIST [IPV6]

Description:

- Displays the interconnect list
- o Displays IPv4 information by default. To display IPv6 information, enter the IPV6 keyword

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

Example:

OA-0018FE27577F> SHOW INTERCONNECT LIST

Bay Interconnect Management IP	Type	Manuf	facturer	Power	Health	UID	
1 Ethernet 172.16.1.149	HP			On	OK	Off	
2 [Absent] 172.16.2.156	HP			On	OK	Off	
3 [Absent] 4 [Absent]							
5 [Absent] 6 [Absent] 7 [Absent]							
8 Fibre Channel Totals: 3 interco		dules	installed,	On 3 power	OK med on.	Off	0.0.0.0

OA-0018FE275723> SHOW INTERCONNECT LIST IPV6

Bay Interconnect Type Type	Power	Management IP	
			-
1 Ethernet	On	fe80::2e27:d7ff:febe:100	LL
		2001:acdc:aabb:bbcc:ccdd:dddd:eeee:142	

DHCPv6

- 2 [Absent]
- 3 [Absent]
- 4 Ethernet On
- 5 [Absent]
- 6 [Absent]
- 7 [Absent]
- 8 [Absent]

SHOW INTERCONNECT PORT MAP

Command:

SHOW INTERCONNECT PORT MAP {ALL | <bay number> | <bay number>-<bay number>}

Description:

Displays the port mapping for the interconnect specified by the bay number

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

Example:

```
OA-0018FE27577F> SHOW INTERCONNECT PORT MAP ALL
1: Cisco Catalyst Blade Switch 3120X for HP w/ IP Base
  Type: Ethernet
  Width: Single
  Status: OK
               1 2 3
                              5 6
                            4
                                                  10 11 12 13 14
       Port
15 16
       Status
                   OK
                                       OK
                                                  OK
OK
                    2A
       Blade
                                                  2В
7
       Mezz/Nic
                  NT
                                       NΤ
                                                  NΤ
ΝI
       Port
                    1
                                       1
2. <absent>
3. <absent>
4. <absent>
```

SHOW INTERCONNECT POWERDELAY

Command:

SHOW INTERCONNECT POWERDELAY {ALL | <bay number> [{ - | , } <bay number>]}

Description:

Displays the PowerDelay status for the specified interconnects or range of interconnects

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have access to the specified bay.

Example:

OA-0018FE27577F> SHOW INTERCONNECT POWERDELAY ALL

Current PowerDelay Status: Not in Progress Bay Device PowerDelay State Delay (seconds) 1 Cisco Catalyst Blade Switch 3120 Disabled 2 Absent Disabled 3 Absent Disabled 4 Absent Disabled

SHOW INTERCONNECT SESSIONS

Command:

SHOW INTERCONNECT SESSIONS

Description:

Displays which users have serial console sessions in progress for each interconnect

Access level/Bay level:

OA administrator, OA operator

Bay specific

Restrictions:

You must have access to the specified bay.

Example:

```
OA-0018FE27577F> SHOW INTERCONNECT SESSION
 Interconnect Bay User
 _____
No Interconnect remote console sessions were detected.
```

SHOW INTERCONNECT STATUS

Command:

SHOW INTERCONNECT STATUS {ALL | <bay number> | <bay number>-
bay number>}

Description:

Displays interconnect status information.

Access level/Bay level:

Αll

Bay specific

Restrictions:

You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.

```
OA-0018FE27577F> SHOW INTERCONNECT STATUS ALL
Interconnect Module #1 Status:
       Status : OK
       Thermal: OK
       CPU Fault: OK
       Health LED: OK
        UID: Off
        Powered: On
        Diagnostic Status:
```

OK Internal Data Management Processor OK Thermal Warning OK
Thermal Danger OK
I/O Configuration OK
Device Failure OK
Device Degraded OK

Interconnect Module #2 Status:

Interconnect Module Type: No Interconnect Module Installed Interconnect Module #3 Status:

Interconnect Module Type: No Interconnect Module Installed Interconnect Module #4 Status:

Interconnect Module Type: No Interconnect Module Installed

Active Health System commands

ENABLE ACTIVE HEALTH SYSTEM

Command:

ENABLE ACTIVE HEALTH SYSTEM

- **Description:**
- Enables logging of inventory and health status for shared infrastructure items such as fans and power supplies to the blades that depend upon them.
- Access level/Bay level:

OA administrator

Restrictions:

None

DISABLE ACTIVE HEALTH SYSTEM

Command:

DISABLE ACTIVE HEALTH SYSTEM

- **Description:**
- Disables logging of inventory and health status for shared infrastructure items such as fans and power supplies to the blades that depend upon them.
- Access level/Bay level:

OA administrator

Restrictions:

None

Enclosure DVD commands

SET SERVER DVD

Command:

```
SET SERVER DVD {CONNECT | DISCONNECT} [USB://url] {ALL | <bay number> [{ ,
| - } <bay number>]}
```

Description:

Connects or disconnects the specified server or range of servers from the enclosure DVD drive. The DISCONNECT argument detaches any URL in addition to the enclosure DVD. USB://url is an optional parameter that matches the URL to an .iso file displayed by the SHOW USBKEY command.

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

You must have access to the specified bay number.

SHOW SERVER DVD

Command:

```
SHOW SERVER DVD {ALL | <bay number> [{ , | - } <bay number>]}
```

Description:

Displays the DVD connection status for the specified server or range of servers

Access level/Bay level

Αll

Bay specific

Restrictions:

- You must have access to the specified bay number.
- Different sides of the server bay cannot be designated within the same range.

Example:

```
OA-0018FE27577F> SHOW SERVER DVD ALL
DVD Drive: Present
DVD Media: Present
Server DVD connections:
Bay Connected Device or image URL
___ _____
 1 -
           [Bay empty]
2A No
2B No
        [Bay empty]
[Bay empty]
 3 -
 4 -
```

```
5 - [Bay empty]
6 - [Bay empty]
7 No
8 - [Non-server blade]
```

Remote syslog commands

DISABLE SYSLOG REMOTE

Command:

DISABLE SYSLOG REMOTE

Description:

Disables remote system logging

Access level/Bay level:

OA administrator, OA operator

Restrictions:

To perform this command, you must be an operator or administrator with OA permission.

ENABLE SYSLOG REMOTE

Command:

ENABLE SYSLOG REMOTE

Description:

Enables remote system logging

Access level/Bay level:

OA administrator, OA operator

Restrictions:

To perform this command, you must be an operator or administrator with OA permission.

SET REMOTE SYSLOG PORT

Command:

SET REMOTE SYSLOG PORT <port>

Description:

Sets the IP port number for remote system log. Setting the remote port is optional. If the remote port is not set, then the default UDP port 514 is used to send system log messages.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The remote port must be an integer between 1 and 65535 inclusive.

SET REMOTE SYSLOG SERVER

Command:

SET REMOTE SYSLOG SERVER {<IPv4/IPv6> | <dns name>}

Sets the IP address or DNS name for remote system log messages

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SHOW SYSLOG SETTINGS

Command:

SHOW SYSLOG SETTINGS

Description:

Displays the remote syslog settings for the Onboard Administrator

Access level/Bay level:

Operator, Administrator

Restrictions:

You must have OA permission to perform this command.

OA-0018FE27577F> SHOW SYSLOG SETTINGS

Remote log: Disabled

Address:

514 Port:

TEST SYSLOG

Command:

TEST SYSLOG

Description:

Tests the remote system log settings by logging a test message to the syslog. The test message will also appear in the local OA administrator system log

Access level/Bay level:

Operator, Administrator

Restriction:

You must have OA permission to perform this command.

Remote syslog example

The remote syslog consists of a date and time stamp, the Onboard Administrator IP address, text, and a priority number. The date and time stamp, and the text match the Onboard Administrator syslog entry.

Sep 9 16:00:28 10.128.126.204 OA: Remote system logging enabled to server 16.83.33.81, port 514 (priority 13)

USB support commands

DOWNLOAD CONFIG using USB key

Command:

DOWNLOAD CONFIG <url>

Description:

Downloads a saved configuration file from a specific IP host. The file is not checked for errors but is automatically executed in SCRIPT MODE. Supported protocols are HTTP, FTP, TFTP, and USB. Format the <url> as protocol://host/path/file. If your FTP server does not support anonymous connections, then you can specify a username and password by replacing the host part in the previous format with username:password@host. To execute a configuration script from a USB key, use usb://<directory name>/<script file name>.

Access level/Bay level:

OA administrator

Restrictions:

- The file cannot change the Administrator account password.
- The user password is not saved or restored by the DOWNLOAD CONFIG command.

SET SERVER DVD for USB key

Command:

```
SET SERVER DVD {CONNECT | DISCONNECT} [USB://url] {ALL | <bay number> [{ ,
| - } <bay number>] }
```

Description:

Connects or disconnects the specified server or range of servers from the enclosure DVD drive. The DISCONNECT argument detaches any URL in addition to the enclosure DVD. USB://url is an optional parameter that matches the URL to an .iso file displayed by the SHOW USB command.

Access level/Bay level:

Administrator, operator

Bay specific

Restrictions:

You must have access to the specified bay number.

SHOW USBKEY

Command:

SHOW USBKEY

Description:

Displays a list of Firmware images, configuration scripts, and ISO images present on the enclosure USB media

Access level/Bay level:

OA administrator, OA operator

Restriction:

None

Example:

```
OA-00215AB195CB> show usbkey
```

```
Firmware Image Files
                                          Image Version
_____
                                          _____
                                                2.25
usb://d1/hpoa225.bin
Configuration Script Files
usb://d1/USE62317RY.cfg
ISO Image Files
usb://d1/win2003sp4.iso
usb://d1/BB130.2008 0822.11.iso
usb://d1/HPSUMForce.iso
usb://d1/FW820.2008 0730.61.iso
```

UPDATE IMAGE using USB key

Command:

```
UPDATE IMAGE {{[FORCE] {<url> | FW ISO}} | SYNC}
```

Description:

- The UPDATE IMAGE command downloads a new flash image from the network and uses it to update the Onboard Administrator firmware. If a redundant Onboard Administrator is present in the system, then this command flashes and validates its firmware before attempting to flash the active Onboard Administrator.
- Supported protocols are HTTP, FTP, and TFTP.
- The URL must be formatted as: protocol://host/path/filename.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous logins, a user name and password can be specified within the URL formatted as: ftp://username:password@host/path/filename.
- Use FORCE to enable downgrading firmware even if settings and passwords might be lost.
- The UPDATE IMAGE SYNC command initiates a firmware sync of the Active and Standby Onboard Administrators.
- For USB protocol, see the SHOW USBKEY (on page 185) command.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

You cannot use the FORCE option for downgrade in FIPS Mode ON/DEBUG.



CAUTION: When a firmware upgrade is in process, do not disconnect the Onboard Administrator modules. Disconnecting these modules could render the Onboard Administrator unusable.

UPLOAD CONFIG using USB key

Command:

UPLOAD CONFIG {"<url>" | USB "<filename>"}

Description:

- Uploads to the specified URL a script that duplicates the current runtime configuration.
- Supported protocols are FTP, TFTP, and USB.
- Format the URL as follows: protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.
- To save an Onboard Administrator configuration file to a USB key, use the USB keyword and provide a file name.

Access level/Bay level:

OA administrator

Restriction:

The user password is not saved or restored by the UPLOAD CONFIG command.

VLAN commands

ADD VLAN

Command:

ADD VLAN <VLAN ID> ["<VLAN NAME>"]

Description:

Creates a VLAN ID and an optional VLAN NAME.

Access level/Bay level:

OA administrator, OA operator

- **Restrictions:**
 - The VLAN ID is an integer from 1 to 4094.
 - The VLAN Name is limited to 31 alphanumeric characters.

DISABLE VLAN

Command:

DISABLE VLAN

Description:

This command disables or turns off VLAN on the enclosure.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

EDIT VLAN

EDIT VLAN <VLAN ID> ["<VLAN NAME>"]

Description:

Edits VLAN NAME (truncated to 31 alphanumeric characters) for the specified VLAN ID.

Access level/Bay level:

OA administrator, OA operator

The VLAN Name is limited to 31 alphanumeric characters.

ENABLE VLAN

Command:

ENABLE VLAN

Description:

This command enables or turns on VLAN on the enclosure.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

REMOVE VLAN

Command:

REMOVE VLAN <VLAN ID>

Description:

Removes a VLAN ID. All devices currently using that VLAN ID are moved to the default VLAN ID.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The user cannot remove the default VLAN ID.

SAVE VLAN

Command:

SAVE VLAN

Description:

Save VLAN configuration data to FLASH.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

This command only applies to VLAN configuration data.

SET VLAN DEFAULT

Command:

SET VLAN DEFAULT <VLAN ID>

Description:

Sets or changes the default VLAN ID for the enclosure. Devices using the current default are reassigned to the new ID.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

The VLAN ID is a value between 1 and 4094.

SET VLAN FACTORY

Command:

SET VLAN FACTORY

Description:

Restores the VLAN settings to factory defaults. VLAN is disabled and all devices are grouped in VLAN ID 1. To execute the command, enter YES when asked if you are sure you want to restore VLAN settings to factory defaults.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET VLAN INTERCONNECT

Command:

```
SET VLAN INTERCONNECT <VLAN ID> { ALL | <bay number> [{ , | - } <bay number>]
```

Description:

Sets the VLAN ID for the specified interconnect or range of interconnects.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- You must create a VLAN ID using the ADD VLAN command, before using the SET VLAN INTERCONNECT command, or the command is rejected.
- All Virtual Connects that belong to the same domain must be on the same VLAN.

SET VLAN IPCONFIG

Command:

```
SET VLAN IPCONFIG { DHCP | STATIC | SAVE }
```

Description:

Temporarily sets the OA VLAN ID and IP mode to DHCP or STATIC. The IP mode setting applies to the specific OA, and the VLAN ID setting applies to both OAs. If a VLAN ID does not exist, it is created. This command (typically used to test a new network setting) will undo its changes in 5 minutes. To permanently save the changes, issue the SET VLAN IPCONFIG SAVE command.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET VLAN IPCONFIG DHCP

Command:

SET VLAN IPCONFIG DHCP [<OA bay number>] <OA VLAN ID>

Description:

Temporarily sets the OA to DHCP mode and the specified VLAN ID (0 to 4094). Setting the VLAN ID number to 0 disables enclosure VLAN. Any other setting enables enclosure VLAN.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

VLAN ID must be an integer between 0 and 4094.

SET VLAN IPCONFIG SAVE

Command:

SET VLAN IPCONFIG SAVE

Description:

Saves the VLAN IPCONFIG changes to FLASH.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET VLAN IPCONFIG STATIC

Command:

SET VLAN IPCONFIG STATIC [<0A bay number>] <ip address> <netmask> [<qateway>] <OA VLAN ID>

Description:

Temporarily sets the OA to static IP mode and the specified VLAN ID (0 to 4094). Setting the VLAN ID number to 0 disables enclosure VLAN. Any other setting enables the enclosure VLAN.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

VLAN ID must be an integer between 0 and 4094.

SET VLAN OA

Command:

SET VLAN OA <VLAN ID>

Description:

Sets or changes the VLAN ID of the Onboard Administrator. Loss of connectivity to the Onboard Administrator will occur if this is improperly set.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET VLAN REVERT

Command:

SET VLAN REVERT <delay>

Description:

Reverts VLAN settings back to saved FLASH configuration data in <delay> seconds. Use a delay of 0 to cancel the command. Any newly issued revert command takes precedence over an outstanding one.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

None

SET VLAN SERVER

Command:

SET VLAN SERVER <VLAN_ID> { ALL | <bay number> [{ , | - } <bay number>] }

Description:

Sets the VLAN ID for the specified server or range of servers.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- You must create a VLAN ID using the ADD VLAN command, before using the SET VLAN SERVER command, or the command is rejected.
- All multi-blade servers must be on the same VLAN.

Command:

Description:

Shows VLAN settings.

Access level/Bay level:

OA administrator, OA operator, OA user

Restrictions:

None

Example:

```
OA-0018FE27577F> show vlan
show vlan
VLAN is enabled. OA VLAN ID = 1. Default VLAN ID (untagged) = 1.
VLAN VLAN NAME
----
1 Default
Device Settings
BAY VLAN
---
1
  1
2
  1
3
  1
4
  1
  1
5
6 1
7 1
  1
Interconnect Settings
BAY VLAN
1 1
2 1
3 1
4 1
```

HP Insight Remote Support commands

ADD REMOTE_SUPPORT CERTIFICATE

Command:

ADD REMOTE SUPPORT CERTIFICATE <end marker> <\n> <certificate> <\n> <end marker> <press enter>

Description:

Adds the specified HP Remote Support certificate to the Onboard Administrator. Certificates ensure that the Onboard Administrator sends information securely to the Insight Remote Control server. To add the certificate:

- Start with a string that does not appear within the certificate (the end marker).
- b. Insert a newline character by pressing Enter.
- Paste in the certificate.
- Insert a newline character by pressing Enter.
- Insert the end marker.
- Issue the command by pressing **Enter**.

Failure to give a proper end marker before and after the certificate might cause the interface to wait for the appropriate end marker indefinitely.

Access level/Bay level:

OA administrator

Restrictions

- Only one certificate may be added per command.
- A maximum of 8 certificates can be added to the Onboard Administrator.
- This command is only available in script mode.
- A valid certificate is required if connecting to an HP Insight Remote Support Hosting Device and the Onboard Administrator is operating in FIPS Mode.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

DOWNLOAD REMOTE SUPPORT CERTIFICATE

Command:

DOWNLOAD REMOTE SUPPORT CERTIFICATE "<url>"

Description:

Downloads the specified HP Remote Support certificate to the Onboard Administrator. The certificate ensures that the Onboard Administrator sends information securely to the Insight Remote Control server.

- Specify the URL where the certificate can be found.
- Supported protocols are HTTP, FTP, and TFTP.
- Format the URL as protocol://host/path/file.
- The URL syntax for IPv4 addresses is protocol://<ipv4 address>/path/file.
- The URL syntax for IPv6 addresses is protocol://[<ipv6 address>]/path/file.
- If your FTP server does not support anonymous connections, you can specify a user name and password in the format ftp://username:password@host/path/file.

Access level/Bay level:

OA administrator

Restrictions:

- Only one certificate may be downloaded per command.
- A maximum of 8 certificates can be downloaded to the Onboard Administrator.
- A valid certificate is required if connecting to an HP Insight Remote Support Hosting Device and the Onboard Administrator is operating in FIPS Mode.
- When the Onboard Administrator is operating in FIPS Mode, the minimum RSA key length is 2048 bits, and the signature hash algorithm must be SHA1, SHA-224, SHA-256, SHA-384, or SHA-512.

ENABLE REMOTE_SUPPORT DIRECT

Command:

ENABLE REMOTE SUPPORT DIRECT {"<user-id> <password>}

Description:

Registers the Onboard Administrator enclosure for Remote Support Direct Connect (DIRECT mode), allowing the enclosure to communicate directly to HP without the need to set up an HP Insight Remote Support centralized Hosting Device in your local environment.

After entering the command, you are asked to confirm that you agree to have Insight Remote Support send data to HP and that you agree to the terms and conditions of the HP Software License Agreement and the HP Insight Management Additional License Authorization (located at the HP website (http://www.hp.com/go/SWLicensing)). For information about the type of data collected by HP, see the HP BladeSystem Onboard Administrator User Guide.

To confirm your agreement, answer YES. This completes the first of two steps of the registration process.



IMPORTANT: This command completes step 1 of the registration process. To complete the process, you must perform step 2, which is to register at the Insight Online portal.

To complete the second step of the registration process, register at the Insight Online portal:

- a. Navigate to the HP Insight Online website (http://www.hp.com/go/insightonline.), and then log in with your HP Passport account credentials.
- b. Follow the onscreen instructions in Insight Online, and provide your site, contact, and partner information so HP can deliver service for your enclosure. For detailed instructions, see the HP Insight Remote Support and Insight Online Setup Guide for ProLiant Gen8 Servers and c-Class BladeSystem Enclosures.

After you complete these steps, confirm registration completion by using the SET REMOTE SUPPORT DIRECT ONLINE REGISTRATION COMPLETE (on page 198) command. You can then use the TEST REMOTE SUPPORT (on page 200) command to send a test event to confirm the connection between OA and Insight Remote Support.

If your enclosure uses a web proxy server to access the Internet, enter proxy information with the SET REMOTE SUPPORT DIRECT PROXY (on page 198) command.

Access level/Bay level:

OA administrator

Restrictions

Version 4.01 or later of the Onboard Administrator firmware must be installed.

ENABLE REMOTE_SUPPORT IRS

Command:

ENABLE REMOTE SUPPORT IRS {"<hostname | IP address>" <port>}

Description:

Registers the Onboard Administrator enclosure for Remote Support Central Connect (IRS mode), allowing the enclosure to communicate to HP through an HP Insight Remote Support centralized Hosting Device in your local environment.

After registering, you can use the TEST REMOTE SUPPORT (on page 200) command to send a test event to confirm the connection between Onboard Administrator and Insight Remote Support.

Access level/Bay level:

OA administrator

Restrictions

- Insight Remote Support 7.0.5 or later must be installed and configured on the Insight Remote Support centralized hosting device.
- Version 3.60 or later of the Onboard Administrator firmware must be installed.
- A valid certificate is required if connecting to an HP Insight Remote Support Hosting Device and the Onboard Administrator is operating in FIPS Mode.

ENABLE REMOTE SUPPORT MAINTENANCE

Command:

ENABLE REMOTE SUPPORT MAINTENANCE { MIN | HOUR | DAY | WEEK } <interval>

Description:

Enables and starts the Remote Support maintenance window for the time interval specified

Access level/Bay level:

OA administrator

Restrictions:

Remote Support must be enabled before running ENABLE REMOTE SUPPORT MAINTENANCE. This setting is not recorded when you run the SHOW CONFIG command.

DISABLE REMOTE_SUPPORT

Command:

DISABLE REMOTE SUPPORT

Description:

Unregisters the Onboard Administrator from the Remote Support server

Access level/Bay level:

OA administrator

DISABLE REMOTE_SUPPORT MAINTENANCE

Command:

DISABLE REMOTE_SUPPORT MAINTENANCE

Description:

Disables the Remote Support maintenance window

Access level/Bay level:

OA administrator

REMOVE REMOTE_SUPPORT CERTIFICATE

Command:

REMOVE REMOTE SUPPORT CERTIFICATE "<certificate name>"

- **Description:**
- Removes the Remote Support trust certificate corresponding to the SHA1 <certificate name>.
- Access level/Bay level:

OA administrator

Restrictions:

None

SEND REMOTE SUPPORT DATACOLLECTION

Command:

SEND REMOTE SUPPORT DATACOLLECTION

Description:

Sends a data collection to the remote server

Access level/Bay level:

OA administrator

Restrictions:

Remote Support must be enabled before sending a data collection. If the enclosure contains a large number of blades, the test might take several minutes. After the test is complete, the status is reflected in the SHOW REMOTE SUPPORT command output.

SET REMOTE_SUPPORT DIRECT ONLINE_REGISTRATION_COMPLETE

Command:

SET REMOTE SUPPORT DIRECT ONLINE REGISTRATION COMPLETE

Description:

Upon entering this command, you are asked to confirm that you registered at the HP Insight Online website (http://www.hp.com/go/insightonline.). This is the second of two steps to finish registering for Insight Remote Support through a direct connection to HP Insight Online. To confirm that you have completed this step, answer YES.

To send a test event to confirm the connection between OA and Insight Remote Support, use the TEST REMOTE SUPPORT (on page 200) command.

Access level/Bay level:

OA administrator

Restrictions

If your enclosure uses a web proxy server to access the Internet, enter proxy information with the SET REMOTE SUPPORT DIRECT PROXY (on page 198) command. Proxy settings must be kept up to date to enable your c-Class enclosure to continue to send remote support data to HP.

SET REMOTE SUPPORT DIRECT PROXY

Command:

SET REMOTE SUPPORT DIRECT PROXY {NONE | "proxy server>" proxy port> ["cproxy username>"] ["cproxy password>"]}

Sets Remote Support proxy settings required if the Onboard Administrator enclosure uses a proxy server to access the Internet.

Access level/Bay level:

OA administrator

Restrictions

Proxy settings must be kept up to date to enable your c-Class enclosure to continue to send remote support data to HP.

SHOW REMOTE_SUPPORT

Command:

SHOW REMOTE SUPPORT

Description:

Displays Remote Support settings and information such as:

- Remote Support status
- Connection type: DIRECT or IRS (Insight Remote Support)
- Online passport name
- Online Registration status
- Web Proxy Server
- Data collection status

Access level/Bay level:

OA administrator

Example:

OA-E4115BECFBAB> show remote support

```
Status : Enabled
Connection type : DIRECT
Online passport name : oa_user
Online Registration complete : Yes
Web Proxy Server
Web Proxy Server : Collection Interval(days) : 30
Last successful registration : 2013-11-11T12:21:40 CST
Last successful unregistration : 0000-00-00T00:00:00
Last successful Data Collection : 2013-11-11T12:22:05 CST
Last Data Collection transmission: 2013-11-11T12:22:05 CST
Next scheduled Data Collection : 2013-12-11T12:21:00 CST
Last successful Service Event : 2013-11-11T12:25:18 CST
Failed Data Collection attempts : 0
Failed Service Event attempts : 0
Maintenance Mode : Disabled
```

SHOW REMOTE_SUPPORT CERTIFICATE

Command:

SHOW REMOTE SUPPORT CERTIFICATE

Description:

Displays the details of the Remote Support certificates that have been added.

Access level/Bay level:

OA administrator

Restrictions

None

Example:

```
OA-0022643431AB> show remote support certificate
```

```
Details for ca certificate 1
        Remote Support
        issuerCommonName = pdehost24.ac.hp.com
```

```
subjectOrganization = Hewlett-Packard Company
              subjectOrganizationalUnit = Hewlett-Packard Insight
Remote Support
              subjectCommonName = pdehost24.ac.hp.com
              validFrom
                                      = 2012-10-08T22:57:20Z
                                      = 2013-10-09T22:57:20Z
              validTo
              serialNumber
6C:FB:78:3C:94:40:88:F1:DE:DF:26:55:3B:6B:C0:5B
              extensionCount
              md5Fingerprint
A2:79:25:F9:43:7F:C6:B7:48:47:E1:FA:EA:F1:83:00
              sha1Fingerprint
15:28:B5:19:28:F3:90:B5:BB:FE:54:12:03:18:9F:86:C0:5A:14:B0
```

SHOW REMOTE_SUPPORT EVENTS

Command:

SHOW REMOTE SUPPORT EVENTS

Description:

Displays Remote Support events that have been sent

Access level/Bay level:

OA administrator

Example:

OA-E4115BECFBAB> show remote support events

Id			Time		Event	
Device	Serial	Perceived	d Submission			
Number			Generated		Type	Type
Number	Bay Severity	Status				
80965f29-7f	7e-42ba-afb4-8	bdc348c75bb	2013-11-11T12:23:09	CST	Test	
Enclosure	ENC1234567	0 Info	OK			
b6cd7095-a56	61-4384-98b2-5	e44744ea2dc	2013-11-11T12:25:09	CST	Test	
Enclosure	ENC1234567	0 Info	OK			
f7824402-664	46-4e02-b584-4	c7a84b49504	2013-11-11T12:25:11	CST	Test	
Enclosure	ENC1234567	0 Info	OK			
d45e1b4c-fa2	23-4b7e-917d-f	9d3857aedfb	2013-11-11T12:25:12	CST	Test	
Enclosure	ENC1234567	0 Info	OK			

m - --- -

TEST REMOTE_SUPPORT

Command:

TEST REMOTE SUPPORT

Description:

Sends a test service alert

Access level/Bay level:

OA administrator

Erron+

Restrictions:

Remote Support must be enabled before sending a test event. If the enclosure contains a large number of blades, the test might take several minutes. After the test has completed, the status is reflected in the SHOW REMOTE_SUPPORT command output.

Enclosure Dynamic Power Cap commands

SET ENCLOSURE POWER_CAP

Command:

```
SET ENCLOSURE POWER CAP { <cap> [<derated circuit capacity>
<rated circuit capacity>] | OFF }
```

Description:

Sets the Enclosure Dynamic Power Cap in watts AC. OFF disables the Enclosure Dynamic Power Cap. Average power cannot exceed cap or derated_circuit_capacity. Peak power cannot exceed rated_circuit_capacity. For example, suppose the PDU powering the enclosure has a rated capacity of 30 amps. In North America and Japan, the standard de-rating ratio is 80%, so the PDU has a derated capacity of 24 amps (0.80 * 30). At 208 volts, the Rated Circuit Capacity would be entered as 6240 watts (30 * 208), and the Derated Circuit Capacity would be entered as 4992 watts (24 * 208). When specifying only cap, the other values are calculated using the standard de-rating ratio for North America. Therefore derated_circuit_capacity is equal to cap and rated_circuit_capacity is equal to 1.25 * cap. The Enclosure Dynamic Power Cap and Derated Circuit Capacity can be specified as any value in the allowable range. The Derated Circuit Capacity must be at least as large as the Enclosure Dynamic Power Cap and no larger than the Rated Circuit Capacity. The Enclosure Dynamic Power Cap can be used to limit enclosure power consumption based on a cooling constraint that might be lower than the Derated Circuit Capacity.

Access level/Bay level:

OA administrator, OA operator

Restrictions:

- A redundant Onboard Administrator is required.
- The Power Cap must be in the range displayed by the command SHOW ENCLOSURE POWER CAP.
- In scripts, if both SET POWER LIMIT and SET ENCLOSURE POWER CAP are set to non-zero values, whichever command is used last takes precedence.

SET ENCLOSURE POWER_CAP_BAYS_TO_EXCLUDE

Command:

SET ENCLOSURE POWER CAP BAYS TO EXCLUDE [NONE |

Say number> {[, | -]

Say number>}]

Description:

Specifies bays to omit from Enclosure Dynamic Power Cap. Blades in omitted bays are treated as unmanaged components of the system: They receive a maximum power allocation even when the power is not being consumed, raising the minimum Enclosure Dynamic Power Cap value that can be applied to the enclosure. Any blades in bays not specified are managed.

If you have previously specified bays to exclude, using this command again replaces that specification rather than augmenting it.

Access level/Bay level:

OA administrator, OA operator

Restriction:

You can exclude no more than one fourth of the bays.

SHOW ENCLOSURE POWER CAP

Command:

SHOW ENCLOSURE POWER CAP

Description:

Displays the current Enclosure Dynamic Power Cap in watts.

Access level/Bay level:

Αll

Restriction:

None

Example:

OA-0018FE27577> SHOW ENCLOSURE POWER CAP

```
Enclosure Dynamic Power Cap:
                                                                              Disabled
Derated Circuit Capacity:
                                                                             Disabled
Rated Circuit Capacity:
                                                                              Disabled
Allowable Enclosure Dynamic Power Cap: 3123 - 7676 Watts AC Allowable Derated Circuit Capacity: 3123 - 7676 Watts AC Allowable Rated Circuit Capacity: 3428 - 7676 Watts AC
```

SHOW ENCLOSURE POWER_CAP_BAYS_TO_EXCLUDE

Command:

SHOW ENCLOSURE POWER CAP BAYS TO EXCLUDE

Description:

Displays the bays in the enclosure that are exempt from the Enclosure Dynamic Power Cap.

Access level/Bay level:

Αll

Restriction:

None

Example:

```
OA-0018FE27577F> show enclosure power cap bays to exclude
```

```
Bays opted out: None
```

Event notifications

Enclosure event notifications

Enclosure events produce screen messages with the show events option enabled. If you are directly affected by an event, a message is produced whether the show events option is enabled or disabled.

Event messages include the device affected, the device name, and the date and time of the event. Some examples of event messages are:

- The enclosure is in a degraded state.
- Blade X has experienced a failure.
- The temperature on Blade X has exceeded the failed threshold.
- Fan X has experienced a failure.
- The power supplies are no longer redundant.
- Power supply X is in a degraded state.
- The enclosure temperature has exceeded the degraded threshold.

Command line event notifications

When the SET DISPLAY EVENTS option is turned on, the terminal interface displays error, warning, and status messages, depending on the behavior of the enclosure and components.

The syntax for these messages are:

- <error>—Description of error
- <warning>—Description of warning
- <status>—Description of status

The following table lists causes of the error, warning, or status events that appear.

Event	Cause
Bay Event	A bay was assigned or unassigned from a group.
Blade Inserted	A blade was inserted into the enclosure.
Blade Thermal Status Changed	The thermal status of a blade changed.
Blade Removed	A blade was removed from the enclosure.
Blade Port Map Info	The port mapping information of a blade was updated.
Enclosure Status Change	A change in status has occurred because of a change in the state of one or more hardware components or server readings.
Enclosure Name Change	The name of the enclosure was changed.

Event	Cause
Fan Status Change	The status of a fan has changed.
Fan Inserted	A fan has been inserted.
Fan Removed	A fan has been removed.
Interconnect Inserted	An interconnect module was inserted into the enclosure.
Interconnect Thermal Status Changed	The thermal status of an interconnect module changed.
Interconnect Removed	An interconnect module was removed from the enclosure.
Interconnect Power Reset	The power of an interconnect module was reset.
Interconnect Port Map Info	The port mapping information of an interconnect module was updated.
LDAP Group Removed	A LDAP group was removed from the Onboard Administrator. If you are logged into the Onboard Administrator under this LDAP group, you are disconnected.
OA System Log Cleared	The Onboard Administrator system log was cleared.
OA Name Changed	The Onboard Administrator DNS name was changed.
OA Inserted	A redundant Onboard Administrator was inserted into the enclosure.
OA Removed	The redundant Onboard Administrator was removed from the enclosure.
OA Takeover	The redundant and active Onboard Administrators are switching roles. The Active Onboard Administrator reboots into Standby Mode and the redundant Onboard Administrator transitions to Active Mode.
Power Supply Status Change	The status of a power supply has changed.
Power Supply Inserted	A power supply has been inserted.
Power Supply Removed	A power supply has been removed.
Power Supply Redundancy Change	The power supplies are either now redundant or are no longer redundant.
Power Supply Overload	The power supplies are being asked to draw more current than they are able.
Restart Event	The Onboard Administrator is about to start.
Rack Name Change	The rack name stored on the enclosure was changed.
Rack Topology	Enclosures were connected or disconnected from the enclosure link.
Thermal Status Change	A thermal sensor has changed state.
User Removed	A user was removed from the Onboard Administrator. If you are logged in as this user, you are disconnected from the Onboard Administrator.
User Disabled	A user was disabled. If you are logged in as this user, you are disconnected from the Onboard Administrator.

Event	Cause
User Rights	The privilege level of a user on the Onboard Administrator was changed. If you are logged in as this user, you are disconnected from the Onboard Administrator. You can log in again with your new privilege level.

Support and other resources

Before you contact HP

Be sure to have the following information available before you call HP:

- Active Health System log (HP ProLiant Gen8 or later products) Download and have available an Active Health System log for 3 days before the failure was detected. For more information, see the HP iLO 4 User Guide or HP Intelligent Provisioning User Guide on the HP website (http://www.hp.com/go/ilo/docs).
- Onboard Administrator SHOW ALL report (for HP BladeSystem products only) For more information on obtaining the Onboard Administrator SHOW ALL report, see the HP website (http://www.hp.com/go/OAlog).
- Technical support registration number (if applicable)
- Product serial number
- Product model name and number
- Product identification number
- Applicable error messages
- Add-on boards or hardware
- Third-party hardware or software
- Operating system type and revision level

HP contact information

For United States and worldwide contact information, see the Contact HP website (http://www.hp.com/go/assistance).

In the United States:

- To contact HP by phone, call 1-800-334-5144. For continuous quality improvement, calls may be recorded or monitored.
- If you have purchased a Care Pack (service upgrade), see the Support & Drivers website (http://www8.hp.com/us/en/support-drivers.html). If the problem cannot be resolved at the website, call 1-800-633-3600. For more information about Care Packs, see the HP website (http://pro-aq-sama.houston.hp.com/services/cache/10950-0-0-225-121.html).

Time zone settings

Universal time zone settings



IMPORTANT: Time zones must be entered exactly as they appear.

The following table provides the Universal time zone settings that are supported by the Onboard Administrator.

CET	Etc/GMT+2	Etc/GMT+8	Etc/UCT	MST
CST6CDT	Etc/GMT-3	Etc/GMT-9	Etc/Universal	MST7MDT
EET	Etc/GMT+3	Etc/GMT+9	Etc/UTC	Navajo
EST	Etc/GMT-4	Etc/GMT-10	Etc/Zulu	PST8PDT
EST5EDT	Etc/GMT+4	Etc/GMT+10	Factory	UCT
Etc/GMT	Etc/GMT-5	Etc/GMT-11	GMT	Universal
Etc/GMT0	Etc/GMT+5	Etc/GMT+11	GMT+0	UTC
Etc/GMT-0	Etc/GMT-6	Etc/GMT-12	GMT0	WET
Etc/GMT+0	Etc/GMT+6	Etc/GMT+12	GMT-0	W-SU
Etc/GMT-1	Etc/GMT-7	Etc/GMT-13	Greenwich	Zulu
Etc/GMT+1	Etc/GMT+7	Etc/GMT-14	HST	_
Etc/GMT-2	Etc/GMT-8	Etc/Greenwich	MET	_

Africa time zone settings



IMPORTANT: Time zones must be entered exactly as they appear.

The following table provides the African time zone settings that are supported by the Onboard Administrator.

Africa/Abidjan	Africa/Ceuta	Africa/Kinshasa	Africa/Niamey
Africa/Accra	Africa/Conakry	Africa/Lagos	Africa/Nouakchott
Africa/Addis_Ababa	Africa/Dakar	Africa/Libreville	Africa/Ouagadougou
Africa/Algiers	Africa/Dar_es_Salaam	Africa/Lome	Africa/Porto-Novo
Africa/Asmara	Africa/Djibouti	Africa/Luanda	Africa/Sao_Tome
Africa/Asmera	Africa/Douala	Africa/Lubumbashi	Africa/Timbuktu
Africa/Bamako	Africa/El_Aaiun	Africa/Lusaka	Africa/Tripoli
Africa/Bangui	Africa/Freetown	Africa/Malabo	Africa/Tunis
Africa/Banjul	Africa/Gaborone	Africa/Maputo	Africa/Wjndhoek
Africa/Bissau	Africa/Harare	Africa/Maseru	Egypt
Africa/Blantyre	Africa/Johannesburg	Africa/Mbabane	Libya
AfricaBrazzaville	Africa/Juba	Africa/Mogadishu	_
Africa/Bujumbura	Africa/Kampala	Africa/Monrovia	_

Africa/Cairo	Africa/Khartoum	Africa/Nairobi	_
Africa/Casablanca	Africa/Kigali	Africa/Ndjamena	_

Americas time zone settings



IMPORTANT: Time zones must be entered exactly as they appear.

The following table provides the Americas time zone settings that are supported by the Onboard Administrator.

America/Adak	America/Guatemala	America/Rainy_River
America/Anchorage	America/Guayaquil	America/Rankin_Inlet
America/Anguilla	America/Guyana	America/Recife
America/Antigua	America/Halifax	America/Regina
America/Araguaina	America/Havana	America/Resolute
America/Argentina/Buenos_Aires	America/Hermosillo	America/Rio_Branco
America/Argentina/Catamarca	America/Indiana/Indianapolis	America/Rosario
America/Argentina/ComodRivadav	America/Indiana/Knox	America/Santa_Isabel
America/Argentina/Cordoba	America/Indiana/Marengo	America/Santarem
America/Argentina/Jujuy	America/Indiana/Petersburg	America/Santiago
America/Argentina/La_Rioja	America/Indiana/Tell_City	America/Santo_Domingo
America/Argentina/Mendoza	America/Indiana/Vevay	America/Sao_Paulo
America/Argentina/Rio_Gallegos	America/Indiana/Vincennes	America/Scoresbysund
America/Argentina/Salta	America/Indiana/Winamac	America/Shiprock
America/Argentina/San_Juan	America/Indianapolis	America/Sitka
America/Argentina/San_Luis	America/Inuvik	America/St_Barthelemy
America/Argentina/Tucuman	America/Iqaluit	America/St_Johns
America/Argentina/Ushuaia	America/Jamaica	America/St_Kitts
America/Aruba	America/Jujuy	America/St_Lucia
America/Asuncion	America/Juneau	America/St_Thomas
America/Atikokan	America/Kentucky/Louisville	America/St_Vincent
America/Atka	America/Kentucky/Monticello	America/Swift_Current
America/Bahia	America/Knox_IN	America/Tegucigalpa
America/Bahia_Banderas	America/Kralendijk	America/Thule
America/Barbados	America/La_Paz	America/Thunder_Bay
America/Belem	America/Lima	America/Tijuana
America/Belize	America/Los_Angeles	America/Toronto
America/Blanc-Sablon	America/Louisville	America/Tortola
America/Boa_Vista	America/Lower_Princes	America/Vancouver
America/Bogota	America/Maceio	America/Virgin
America/Boise	America/Managua	America/Whitehorse
America/Buenos_Aires	America/Manaus	America/Winnipeg
America/Cambridge_Bay	America/Marigot	America/Yakutat

America/Campo_Grande	America/Martinique	America/Yellowknife
America/Cancun	America/Matamoros	Brazil/Acre
America/Caracas	America/Mazatlan	Brazil/DeNoronha
America/Catamarca	America/Mendoza	Brazil/East
America/Cayenne	America/Menominee	Brazil/West
America/Cayman	America/Merida	Canada/Atlantic
America/Chicago	America/Metlakatla	Canada/Central
America/Chihuahua	America/Mexico_City	Canada/Eastern
America/Coral_Harbour	America/Miquelon	Canada/East-Saskatchewan
America/Cordoba	America/Moncton	Canada/Mountain
America/Costa_Rica	America/Monterrey	Canada/Newfoundland
America/Creston	America/Montevideo	Canada/Pacific
America/Cuiaba	America/Montreal	Canada/Saskatchewan
America/Curacao	America/Montserrat	Canada/Yukon
America/Danmarkshavn	America/Nassau	Chile/Continental
America/Dawson	America/New_York	Chile/EasterIsland
America/Dawson_Creek	America/Nipigon	Cuba
America/Denver	America/Nome	Jamaica
America/Detroit	America/Noronha	Mexico/BajaNorte
America/Dominica	America/North_Dakota/Beulah	Mexico/BajaSur
America/Edmonton	America/North_Dakota/Center	Mexico/General
America/Eirunepe	America/North_Dakota/New_Sal	US/Alaska
America/El_Salvador	America/Ojinaga	US/Aleutian
America/Ensenada	America/Panama	US/Arizona
America/Fort_Wayne	America/Pangnirtung	US/Central
America/Fortaleza	America/Paramaribo	US/Eastern
America/Glace_Bay	America/Phoenix	US/East-Indiana
America/Godthab	America/Port_of_Spain	US/Indiana-Starke
America/Goose_Bay	America/Port-au-Prince	US/Michigan
America/Grand_Turk	America/Porto_Acre	US/Mountain
America/Grenada	America/Porto_Velho	US/Pacific
America/Guadeloupe	America/Puerto_Rico	US/Pacific-New

Asia time zone settings



IMPORTANT: Time zones must be entered exactly as they appear.

The following table provides the Asian time zone settings that are supported by the Onboard Administrator.

Asia/Aden	Asia/Dhaka	Asia/Khandyga	Asia/Qyzylorda	Asia/Ulaanbaatar
Asia/Almaty	Asia/Dili	Asia/Kolkata	Asia/Rangoon	Asia/Ulan_Bator

Asia/Amman	Asia/Dubai	Asia/Krasnoyarsk	Asia/Riyadh	Asia/Urumqi
Asia/Anadyr	Asia/Dushanbe	Asia/Kuala_Lumpur	Asia/Riyadh87	Asia/Ust-Nera
Asia/Aqtau	Asia/Gaza	Asia/Kuching	Asia/Riyadh88	Asia/Vientiane
Asia/Aqtobe	Asia/Harbin	Asia/Kuwait	Asia/Riyadh89	Asia/Vladivostok
Asia/Ashgabat	Asia/Hebron	Asia/Macao	Asia/Saigon	Asia/Yakutsk
Asia/Ashkhabad	Asia/Ho_Chi_Minh	Asia/Macau	Asia/Sakhalin	Asia/Yekaterinburg
Asia/Baghdad	Asia/Hong_Kong	Asia/Magadan	Asia/Samarkand	Asia/Yerevan
Asia/Bahrain	Asia/Hovd	Asia/Makassar	Asia/Seoul	Hongkong
Asia/Baku	Asia/Irkutsk	Asia/Manila	Asia/Shanghai	Iran
Asia/Bangkok	Asia/Istanbul	Asia/Muscat	Asia/Singapore	Israel
Asia/Beirut	Asia/Jakarta	Asia/Nicosia	Asia/Taipei	Japan
Asia/Bishkek	Asia/Jayapura	Asia/Novokuznetsk	Asia/Tashkent	Mideast/Riyadh87
Asia/Brunei	Asia/Jerusalem	Asia/Novosibirsk	Asia/Tbilisi	Mideast/Riyadh88
Asia/Choibalsan	Asia/Kabul	Asia/Omsk	Asia/Tehran	Mideast/Riyadh89
Asia/Chongqing	Asia/Kamchatka	Asia/Oral	Asia/Tel_Aviv	PRC
Asia/Chungking	Asia/Karachi	Asia/Phnom_Penh	Asia/Thimbu	ROC
Asia/Colombo	Asia/Kashgar	Asia/Pontianak	Asia/Thimphu	ROK
Asia/Dacca	Asia/Kathmandu	Asia/Pyongyang	Asia/Tokyo	Singapore
Asia/Damascus	Asia/Katmandu	Asia/Qatar	Asia/Ujung_Pandang	Turkey

Oceanic time zone settings



IMPORTANT: Time zones must be entered exactly as they appear.

The following table provides the Oceanic time zone settings that are supported by the Onboard Administrator.

Atlantic/Azores	Australia/Melbourne	Kwajalein	Pacific/Marquesas
Atlantic/Bermuda	Australia/North	NZ	Pacific/Midway
Atlantic/Canary	Australia/NSW	NZ-CHAT	Pacific/Nauru
Atlantic/Cape_Verde	Australia/Perth	Pacific/Apia	Pacific/Niue
Atlantic/Faeroe	Australia/Queensland	Pacific/Auckland	Pacific/Norfolk
Atlantic/Jan_Mayen	Australia/South	Pacific/Chatham	Pacific/Noumea
Atlantic/Madeira	Australia/Sydney	Pacific/Chuuk	Pacific/Pago_Pago
Atlantic/Reykjavik	Australia/Tasmania	Pacific/Easter	Pacific/Palau
Atlantic/South_Georgia	Australia/Victoria	Pacific/Efate	Pacific/Pitcairn
Atlantic/St_Helena	Australia/West	Pacific/Enderbury	Pacific/Pohnpei
Atlantic/Stanley	Australia/Yancowinna	Pacific/Fakaofo	Pacific/Ponape
Australia/ACT	Iceland	Pacific/Fiji	Pacific/Port_Moresby
Australia/Adelaide	Indian/Antananarivo	Pacific/Funafuti	Pacific/Rarotonga
Australia/Brisbane	Indian/Chagos	Pacific/Galapagos	Pacific/Saipan
Australia/Broken_Hill	Indian/Christmas	Pacific/Gambier	Pacific/Samoa
Australia/Canberra	Indian/Cocos	Pacific/Guadalcanal	Pacific/Tahiti
Australia/Currie	Indian/Comoro	Pacific/Guam	Pacific/Tarawa

Australia/Darwin	Indian/Kerguelen	Pacific/Honolulu	Pacific/Tongatapu
Australia/Eucla	Indian/Mahe	Pacific/Johnston	Pacific/Truk
Australia/Hobart	Indian/Maldives	Pacific/Kiritimati	Pacific/Wake
Australia/LHI	Indian/Mauritius	Pacific/Kosrae	Pacific/Wallis
Australia/Lindeman	Indian/Mayotte	Pacific/Kwajalein	Pacific/Yap
Australia/Lord_Howe	Indian/Reunion	Pacific/Majuro	US/Hawaii
_	_	_	US/Samoa

Europe time zone settings



IMPORTANT: Time zones must be entered exactly as they appear.

The following table provides the European time zone settings that are supported by the Onboard Administrator.

Eire	Europe/Kaliningrad	Europe/Sarajevo
Europe/Amsterdam	Europe/Kiev	Europe/Simferopol
Europe/Andorra	Europe/Lisbon	Europe/Skopje
Europe/Athens	Europe/Ljubljana	Europe/Sofia
Europe/Belfast	Europe/London	Europe/Stockholm
Europe/Belgrade	Europe/Luxembourg	Europe/Tallinn
Europe/Berlin	Europe/Madrid	Europe/Tirane
Europe/Bratislava	Europe/Malta	Europe/Tiraspol
Europe/Brussels	Europe/Mariehamn	Europe/Uzhgorod
Europe/Bucharest	Europe/Minsk	Europe/Vaduz
Europe/Budapest	Europe/Monaco	Europe/Vatican
Europe/Busingen	Europe/Moscow	Europe/Vienna
Europe/Chisinau	Europe/Nicosia	Europe/Vilnius
Europe/Copenhagen	Europe/Oslo	Europe/Volgograd
Europe/Dublin	Europe/Paris	Europe/Warsaw
Europe/Gibraltar	Europe/Podgorica	Europe/Zagreb
Europe/Guernsey	Europe/Prague	Europe/Zaporozhye
Europe/Helsinki	Europe/Riga	Europe/Zurich
Europe/Isle_of_Man	Europe/Rome	GB
Europe/Istanbul	Europe/Samara	GB-Eire
Europe/Jersey	Europe/San_Marino	Poland
_	_	Portugal

Polar time zone settings



IMPORTANT: Time zones must be entered exactly as they appear.

The following table provides the Polar time zone settings that are supported by the Onboard Administrator.

Antarctica/Casev	Antarctica/Mawson	Antarctica/South_Pole

Antarctica/Davis	Antarctica/McMurdo	Antarctica/Syowa
Antarctica/DumontDUrville	Antarctica/Palmer	Antarctica/Vostok
Antarctica/Macauarie	Antarctica/Rothera	Arctic/Longyearbyen

Acronyms and abbreviations

BLD

BladeSystem Location Device

CA

certificate authority

DDNS

Dynamic Domain Name System

DHCP

Dynamic Host Configuration Protocol

DN

distinguished name

DNS

domain name system

EBIPA

Enclosure Bay IP Addressing

EFM

Enclosure Firmware Management

FQDN

Fully Qualified Domain Name

FRU

field replaceable unit

GC

global catalog

HDD

hard drive

HP SIM

HP Systems Insight Manager

HTTPS

hypertext transfer protocol secure sockets

ICMP

Internet Control Message Protocol

iLO

Integrated Lights-Out

IPD

intelligent power discovery

LDAP

Lightweight Directory Access Protocol

MAC

Media Access Control

NTP

network time protocol

PDU

power distribution unit

PIC

peripheral interface controller

PKCS

Public-Key Cryptography Standards

PXE

preboot execution environment

RBSU

ROM-Based Setup Utility

RIBCL

Remote Insight Board Command Language

RSA

Rivest, Shamir, and Adelman public encryption key

SLAAC

stateless address autoconfiguration

SOAP

Simple Object Access Protocol

SSH

Secure Shell

SSO

single sign-on

TFTP

Trivial File Transfer Protocol

TPM

Trusted Platform Module

UEFI

Unified Extensible Firmware Interface

UID

unit identification

URB

utility ready blade

VC

Virtual Connect

VCM

Virtual Connect Manager

WWN

World Wide Name

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