

# 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.
2. 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.
3. Enter a valid user name and press **Enter**.
4. Enter a valid password and press **Enter**. The CLI command prompt displays.
5. 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

1. Start a SSH session to the Onboard Administrator using any SSH client application.
2. 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**.
4. Enter a valid password and press **Enter**. The CLI command prompt displays.
5. Enter commands for the Onboard Administrator.
6. 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.

1. 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 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**.
- Enter a valid password, and press **Enter**. The CLI command prompt appears.
- Enter commands for the Onboard Administrator.
- To terminate the terminal session, enter `Exit` at the prompt.

---

# 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>	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, <code>SET ENCLOSURE UID {ON   OFF}</code> must be in the form of either of the following: <ul style="list-style-type: none"><li>• <code>SET ENCLOSURE UID ON</code></li><li>• <code>SET ENCLOSURE UID OFF</code></li></ul>
[ ]	Denotes an optional argument or set of characters.
" "	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	<ul style="list-style-type: none"> <li>• All commands</li> <li>• Local account, not LDAP</li> <li>• Only account remaining after a reset Onboard Administrator to factory defaults (account retains configured Administrator password)</li> <li>• Administrator account password can be reset to factory default through the Onboard Administrator serial port using <code>L lost</code></li> </ul>	Administrator / administrator	All



Account classification	Capabilities	Account name / Privilege level	Bays selected for this account
	<p>password recovery option</p> <ul style="list-style-type: none"> <li>• Can download, add, and clear SSHKey. This key only works with the Administrator account.</li> </ul>		
OA administrator	<ul style="list-style-type: none"> <li>• All commands</li> <li>• Allows access to all aspects of the HP BladeSystem Enclosure and Onboard Administrator including configuration, firmware updates, user management, and resetting default settings.</li> </ul>	username / administrator	OA bays (all bays automatically selected)
administrator	<ul style="list-style-type: none"> <li>• Can perform all operations to permitted device bays and interconnect bays including virtual power and console access</li> <li>• administrator permission on device iLO</li> </ul>	username / administrator	No OA bays and only selected device bays and interconnect bays
OA operator	<ul style="list-style-type: none"> <li>• Allows access to all aspects of the HP BladeSystem Enclosure and Onboard Administrator, with the exception of user management</li> </ul>	username / operator	OA bays and can have other bays selected, but the capabilities for the other bays are defined in operator*
operator	<ul style="list-style-type: none"> <li>• Can perform all operations to permitted device bays and interconnect bays including virtual power and console access</li> <li>• operator permission on device iLO</li> </ul>	username / operator	Selected device bays and interconnect bays
OA user	<ul style="list-style-type: none"> <li>• Can view status and</li> </ul>	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.

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

## LOGOUT

- **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:**  
All
- **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:**  
All
- **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
  - 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**  
All
- **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--					

```
USE813AMMP          OK      No      172.16.1.60      09USE813AMMP
--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

Enclosure Name	Local	IP Address
OA-E83935AC65EF	No	
2001:acdc:aabb:bbcc:ccdd:dddd:eeee:183		
1234567890	Yes	
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 passwords.
  - You cannot disable strong passwords when in FIPS Mode ON/DEBUG.

## ENABLE STRONG PASSWORDS

- **Command:**

## ENABLE STRONG PASSWORDS

- **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:**

All
- **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:**  
All
- **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:**

## SHOW PASSWORD SETTINGS

- **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:**  
All
- **Restriction:**  
None
- **Example:**  
>SHOW SESSION TIMEOUT  
Session Timeout: 1440 minutes

## SHOW USER

- **Command:**  
SHOW USER [LIST | "<user name>"]
- **Description:**
  - Displays the user's full name, contact information, access rights, account status, and bays that the user can access.
  - 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.
  - If a user name or `LIST` are not entered, information for the current user is displayed.
- **Access level/Bay level:**  
All
- **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:**

All

- **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:

- a. 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.

## DISABLE CRL

- **Command:**

DISABLE CRL

- **Description:**

Disables certificate revocation checks

- **Access level/Bay level:**

OA administrator

- **Restrictions:**

None

## DISABLE TWOFACOR

- **Command:**

DISABLE TWOFACITOR

- **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:
  - a. 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
certificateVersion      = 3
issuerOrganization     = ca.com
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 TWOFACOR INFO

- **Command:**  
SHOW TWOFACOR INFO
- **Description:**  
Displays the configuration details for Two-Factor Authentication

- **Access level/Bay level:**  
All
- **Restrictions:**  
None
- **Example:**  
OA-0018FE27577F> SHOW TWOFACOR 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:

- a. 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:**

- 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.
  - 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 { <portnumber> | 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.

  - 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-----
MIIHIzCCBgugAwIBAgIKFTKZbQAAAFx1EDANBgkqhkiG9w0BAQUFADB4MRMwEQYK
CZImiZPyLGOBGRYDbmV0MRcwFQYKZImiZPyLGOBGRYHY3BxY29ycDEbMBkGCgms
JomT8ixkARKWC2FzaWFWYWNpZmljMSswKQYDVQQDEyJIUFEGSXNzdWluZyBDQSBB
c2lhLVBhY2lmaWMMgUmVnaW9uMB4XDTA3MTAyMDIyMzU0M1oXDTA5MTAxOTIyMzU0
```

```
M1owKTEncMCUGA1UEAxMeY2N1Z2NhbTAxLmFtZXJpY2FzLmhwcWNvcnAubmV0MIGf
MA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDNYSB8T6rJhJQXbKvM5JLi6EXNAtFL
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:**  
All
- **Restrictions:**  
None
- **Example:**  
OA-0018FE27577F> show ldap info  
Directory Services (LDAP)  
    Enabled                               : Disabled  
    Local Users Enabled                 : Enabled  
    NT Name Mapping                     : Disabled  
    Directory Server                    :  
    Directory Server SSL Port         : 0  
    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:
  - a. 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.
  - 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>.
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 | SECURESSH | 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 `###.###.###.###`, 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:**

All
- **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 <bay 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:**  
All
- **Restrictions:**  
None

# SET URB

- **Command:**  
`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:**

All

- **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:**

```
C3000-OA2> show all
```

```
>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 TWOFACOR 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 bays
- **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.
  - The <ip address> must be in the form #####:#####:#####:#####:#####:#####:#####/###, 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

## ENABLE EBIPA

 **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:**
  - 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.
  - The <ip address> must be in the form #####:#####:#####:#####:#####:#####:#####/###, 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 <gateway> } | { 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.
- 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.
- 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.
- 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 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 ("").
- 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 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>} | [ ALL | <bay number> [{- | ,} <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:

SET EBIPAV6 SERVER 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 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 ("").
- 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

```

EBIPA Device Server Settings
Bay Enabled EBIPA/Current Netmask Gateway DNS
Domain
-----
-----
1 Yes 172.16.211.111 255.255.0.0 172.16.0.1 172.16.0.1
test.com
172.16.211.111 172.16.0.2
172.16.0.3
1A Yes 172.16.211.119 255.255.0.0 172.16.0.1 172.16.0.1
test.com
172.16.0.2
172.16.0.3
1B Yes 172.16.211.127 255.255.0.0 172.16.0.1 172.16.0.1
test.com
172.16.0.2
172.16.0.3
2 Yes 172.16.211.112 255.255.0.0 172.16.0.1 172.16.0.1
test.com
172.16.211.112 172.16.0.2
172.16.0.3
2A Yes 172.16.211.120 255.255.0.0 172.16.0.1 172.16.0.1
test.com
172.16.0.2
172.16.0.3
2B Yes 172.16.211.128 255.255.0.0 172.16.0.1 172.16.0.1
test.com
172.16.0.2
172.16.0.3
3 Yes 172.16.211.113 255.255.0.0 172.16.0.1 172.16.0.1
test.com

```

					172.16.0.2
					172.16.0.3
3A	Yes	172.16.211.121	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
3B	Yes	172.16.211.129	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
4	Yes	172.16.211.114	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
		172.16.211.114			172.16.0.2
					172.16.0.3
4A	Yes	172.16.211.122	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
4B	Yes	172.16.211.130	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
5	Yes	172.16.211.115	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
5A	Yes	172.16.211.123	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
5B	Yes	172.16.211.131	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
6	Yes	172.16.211.116	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
6A	Yes	172.16.211.124	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
6B	Yes	172.16.211.132	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
7	Yes	172.16.211.117	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
7A	Yes	172.16.211.125	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3
7B	Yes	172.16.211.133	255.255.0.0	172.16.0.1	172.16.0.1
test.com					
					172.16.0.2
					172.16.0.3

```

      8   Yes  172.16.211.118  255.255.0.0   172.16.0.1   172.16.0.1
test.com

      8A  Yes  172.16.211.126  255.255.0.0   172.16.0.1   172.16.0.1
test.com

      8B  Yes  172.16.211.134  255.255.0.0   172.16.0.1   172.16.0.1
test.com

```

EBIPA Device Interconnect Settings

Bay	Enabled	EBIPA/Current NTP Domain	Netmask	Gateway	DNS
1	Yes	172.16.211.183 2.3.4.5 testIO.com 0.0.0.0	255.255.0.0	172.16.0.1	172.16.0.1
2	Yes	172.16.211.184 2.3.4.5 testIO.com 0.0.0.0	255.255.0.0	172.16.0.1	172.16.0.1
3	Yes	172.16.211.185 2.3.4.5 testIO.com	255.255.0.0	172.16.0.1	172.16.0.1
4	Yes	172.16.211.186 2.3.4.5 testIO.com	255.255.0.0	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 length>
- **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.
  - 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. 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:
  - a. Static IPv4
  - b. Static IPv6
  - c. DHCPv4
  - d. DHCPv6If 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 ###.###.###.###, where each ### ranges from 0 to 255.

## 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
- b. 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 #####:#####:#####:#####:#####:#####:#####/### (with a prefix), 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.

## 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:

- a. Start with a string that does not appear within the key (the end marker).
- b. Insert a newline character by pressing **Enter**.
- c. Paste in the key.
- 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 key might cause the interface to wait for the appropriate end marker indefinitely.

- **Access level/Bay level:**

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
<ul style="list-style-type: none"> <li>● NOAUTHNOPRIV</li> <li>● AUTHNOPRIV</li> <li>● AUTHPRIV</li> </ul>	Minimal level of security required for operation. By default, operation is required to be signed but not encrypted (authNoPriv). <ul style="list-style-type: none"> <li>● No authorization or encryption</li> <li>● Authorization but no encryption</li> <li>● Authorization and encryption</li> </ul>
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} ["<priv 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 of 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   authNoPriv   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). <ul style="list-style-type: none"> <li>noAuthNoPriv—Allows unauthenticated operations</li> <li>authNoPriv—Requires authentication</li> <li>authPriv—Required encryption</li> </ul>
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 <code>INFORM</code> 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 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. 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.
- **Access level/Bay level:**



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.
- **Access level/Bay level:**

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.

- **Access level/Bay level:**

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:**

None

## 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:**
  - 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 `####:####:####:####:####:####/###` (with a prefix), where each `####` 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 characters).
  - 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 "0x."

## 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 character.
  - 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 events.  
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> [<gateway> [<DNS1 address> [<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:

- a. 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 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 protocol.
  - 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:**  
All
- **Restrictions:**  
None

## SET SECURESH SERVER KEX DHG1

- **Command:**  
`SET SECURESH SERVER KEX DHG1 [ ENABLE | DISABLE ]`
- **Description:**  
Enables insecure diffie-hellman-group1-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:**

- 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.
- 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:**  
All
- **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
have a              detected. Make sure you
loaded.              suitable iLO firmware
resetting            Reseating the blade or
                    iLO may also help.

      Other          iLO Network          The network connectivity
of iLO              is impaired. This could be
due                 to bad gateway, DNS or
netmask
```

3

gain

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
1 OK		
2 Absent		
3 OK		
4 OK		
5 OK		
6 Subsumed		
7 OK		
8 Subsumed		

Power Supply Health:

Bay Status	Problem	Corrective Action
1 OK		
2 OK		
3 OK		
4 OK		
5 OK		
6 OK		

Fan Health:

Bay Status	Problem	Corrective Action
1 OK		
2 OK		
3 OK		

info. It could take up to minutes for devices to connectivity after



```
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:**  
All
- **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
    Secondary:        16.110.135.51
    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:**

All

- **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: 0x8000000b0466697665
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:**  
All
- **Restrictions:**  
None

- **Example:**  
OA> show snmp user list

```
SNMPv3 User                               Local  Access Security EngineID
-----
Bob                                         local  none   none
0x80000000b044866463948746b6773726b694c534756
```

OA> show snmp user bob

```
User: bob
Local: yes
Access: read-only
Authentication Protocol: MD5
Privacy Protocol: DES
Minimum Security Level: auth
EngineID: 0x80000000b0466697665
```

## 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:**  
All
- **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:**  
All
- **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.
  - 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

## 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:**

All

- **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 underscore.
  - 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` state:
    - 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 power.
  - 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 user.
- **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:**  
All
- **Restrictions:**  
None
- **Example:**  
OA-0018FE27577F> SHOW DATE  
Date: 2008-04-15T10:36:46-05:00 Time Zone: CST6CDT

## SHOW DISPLAY EVENTS

- **Command:**

SHOW DISPLAY EVENTS

- **Description:**  
Displays whether event notification is on or off
- **Access level/Bay level:**  
All
- **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:**  
All
- **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:**  
All
- **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:**  
All
- **Restrictions:**  
None
- **Example:**  

```
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
Power Available     =  1781

```

```

Enclosure Input Power Summary:
Enclosure           Watts AC
-----
Present Power      822
Max Input Power    8500
Dynamic Power Cap  Not Set
Power Limit        8500

```

```

Device Bay Power Summary:
Bay  Name                Power Allocated
-----
1    Slammer              212
2    test45667            419
3A   linux                261
3B   linux                265
4    YOUR-EYZCGYAYBB     157

```

-----  
= 1314

Interconnect Bay Power Summary:

Bay	Name	Power Allocated (Watts DC)
1	GbE2c Ethernet Blade Switch	25
2		0
		-----
		= 25

Fan Power Summary:

Total Fans (Number of Fans)	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:**

All

- **Restrictions:**

None

- **Example:**

```
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            OK  
    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:**  
All
- **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:**

All  
Bay specific

- **Restrictions:**

None

- **Example:**

OA-0018FE27577F> 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.
- 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:**

All  
Bay specific

- **Restrictions:**

You must have access to the specified bay.

- **Example:**

OA-0018FE27577F> show fru

Enclosure

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 1  
Model: ProLiant BL480c G1  
Manufacturer: HP  
Serial Number: USM64204B1  
Part Number: 416667-B21  
Spare Part Number: 410293-001

Blade 2  
Model: Integrity BL860c  
Manufacturer: hp  
Serial Number: CSJ0634214  
Part Number: AD323A  
Spare Part Number: AD217-60001

Blade 7  
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\_zh.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:**  
All
- **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:**  
All
- **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 (O): Hewlett-Packard  
 Organizational Unit: Onboard Administrator

# SHOW OA INFO

- **Command:**

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

- **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:**

All

- **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
  UUID           : 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.

- **Example:**

```
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.hpqcorp.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:**  
All
- **Restrictions:**  
None
- **Example:**  
OA-0018FE27577F> SHOW OA STATUS  
Onboard Administrator #1 Status:

```

Name:    OA-0018FE27577F
Role:    Active
UID:     Off
Status:  OK
Diagnostic Status:
Internal Data           OK
Firmware Mismatch      OK
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:**  
All
- **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 C0 and later. Hardware revision is found using the `SHOW OA INFO` command.
- **Access level/Bay level:**  
All
- **Restrictions:**  
None
- **Example:**  

```

OA-0018FE27577F> SHOW OA USB

```

Onboard Administrator USB setting = FRONT

## SHOW POWER

- **Command:**  
SHOW POWER
- **Description:**  
Displays the current power configuration
- **Access level/Bay level:**  
All
- **Restrictions:**  
None
- **Example:**  
OA-0018FE27577F> SHOW POWER  
Power Mode: Not Redundant  
Dynamic Power: Enabled  
Set Power Limit: Not Set  
Power Capacity: 3600 Watts DC  
Power Available: 2685 Watts DC  
Power Allocated: 915 Watts DC  
Present Power: 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  
All
- **Restrictions:**  
You must have access to the specified bay.
- **Example:**  
OA-0016355E560A> SHOW SYSLOG SERVER  
Retrieving Server syslog(s) ...  
Server 1 Syslog:  
<EVENT\_LOG DESCRIPTION="Integrated Management Log">  
<EVENT  
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:  
Port: 514
```

## 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
- **Example:**  
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
- **Example:**  
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.
- 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	Location	Version
NewVersion				
-----				
TRAY	BladeSystem c7000	Onboard Administrator Tray	-	1.7
1.7				
ICBAY	HP 1Gb Ethernet Pass-Thru Module for c-Class		1A	2.8.3
3.0.3				
ICBAY	HP 1Gb Ethernet Pass-Thru Module for c-Class		2A	2.8.3
3.0.3				
ICBAY	HP 1Gb Ethernet Pass-Thru Module for c-Class		3A	2.8.3
3.0.3				
ICBAY	HP 1Gb Ethernet Pass-Thru Module for c-Class		4A	2.8.3
3.0.3				
ICBAY	HP 4Gb Fibre Channel Pass-thru Module for c-C		5A	2.4.3
2.10.3				

```

ICBAY | HP 4Gb Fibre Channel Pass-thru Module for c-C | 6A      | 2.4.3   |
2.10.3
ICBAY | HP 4Gb Fibre Channel Pass-thru Module for c-C | 7A      | 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                       | -       | 1.10    |
| 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.
  - 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 PCIe 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 }
- **Description:**  
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:**  
All
- **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:**
  - All
  - Bay specific
- **Restrictions:**

You must have access to the specified bay number.

- **Example:**

iLO2 1.81 Jan 15 2010  
Power Management Controller

Device Bay: 12  
Discovered: Mon 2010-09-13 17:18:28

Firmware Component Version	Current Version	Firmware ISO
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	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 Version	Current Version	Firmware ISO
System ROM	I15 2009.07.10	I15 2009.07.10
ILO2	1.70	1.82
Power Management Controller		
HP NC373i Multifunction Gigabit Server	Boot code: 4.4.1 CLP: 1.3.6	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
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	

Device Bay: 14A  
Discovered: Mon 2010-09-13 17:27:14

Firmware Component Version	Current Version	Firmware ISO
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 Serve	Boot code: 3.28	Boot code: 3.28

Device Bay: 14B  
Discovered: No

Firmware Component Version	Current Version	Firmware ISO
----------------------------	-----------------	--------------

System ROM  
iLO2  
Power Management Controller

I19 07/10/2009  
1.79 Aug 28 2009  
3.4

## 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,
0.5, ,
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,
0.5, ,
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 FIRMWARE

- **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: 5  
Discovered: Mon 2010-09-13 17:19:48

Firmware Component Version	Current Version	Firmware ISO
System ROM	I15 2009.07.10	I15 2009.07.10
ILO2	1.70	1.82
Power Management Controller	3.4	3.4
HP NC373i Multifunction Gigabit Server	Boot code: 4.4.1 CLP: 1.3.6	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
Smart Array E200i	1.86	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:**  
All  
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:
  - Type "<<" followed by a space.
  - Enter a string that does not appear within the RIBCL script (the end marker).
  - Enter a newline character by pressing **ENTER**.
  - 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:**

All

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%"
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.
  - If the `FORCE` argument is given, the server blade is immediately shut down and might lose data or become unstable.
  - 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:**  
 All

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:**  
All  
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:)
    USB
    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
- iLO name, iLO IP address, and iLO firmware version
- Power Management Controller version
- VLAN ID
- IPv6 information
- iLO Federation capability
- **Access level/Bay level:**
  - All
  - Bay specific
- **Restrictions:**
  - You must have access to the specified bay number.
  - 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: MXQ1281CFX
UUID: 35333036-3139-584D-5131-323831434658
Server Name: host is unnamed
Asset Tag: [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
```

Ethernet LOM:1-a	9C:8E:99:1F:CA:30
iSCSI HBA LOM:1-b	9C:8E:99:1F:CA:31
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
IP Address: 10.0.0.111
MAC Address: 9C:8E:99:17:02:1E
Power Management Controller Version: 1.6
```

```

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
  - Displays by default IPv4 information; to display IPv6 information, enter the `IPV6` keyword
- **Access level/Bay level:**  
All  
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
Type
-----
-----
 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:**  
All

Bay specific

- **Restrictions:**  
You must have access to the specified bay number.
- **Example:**  
OA-0018FE27577F> show server names  
show server names

Bay	Server Name	Serial Number	Status	Power	UID
Partner					
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
Mezz   Mezz  Device  Port      Interconnect Interconnect
Slot  Device Port  Status    Bay         Bay Port    Device ID
-----
----- Blade 001 -----
1 Not Present
2 Not Present
3 Not Present
  Embedded Ethernet
    Port 1 OK          Bay 1      Port 5      00:19:BB:24:51:0C
  iSCSI 1 OK          Bay 1      Port 5      00:19:BB:24:51:0D
    Port 2 OK          Bay 1      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 -----
1 Not Present
2 Not Present
3 Not Present
  Embedded Ethernet
    Port 1 OK          Bay 1      Port 6      00:19:BB:34:A1:5A
  iSCSI 1 OK          Bay 1      Port 6      00:19:BB:34:A1:5B
    Port 2 OK          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 -----
<absent>
----- Blade 004 -----
1 Not Present
2 Not Present
  Embedded Ethernet
    Port 1 OK          Bay 1      Port 4      00:16:35:C5:EF:26
  iSCSI 1 OK          Bay 1      Port 4      00:16:35:C5:EF:27
    Port 2 OK          Bay 1      Port 12     00:16:35:C5:EF:3A
  iSCSI 2 OK          Bay 1      Port 12     00:16:35:C5:EF:3B
----- Blade 005 -----
```

<absent>

----- Blade 006 -----  
<absent>

----- Blade 007 -----  
<absent>

----- Blade 008 -----  
<absent>

## 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:**

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-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
3A	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 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:**

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-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 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           OK
Management Processor OK
I/O Configuration      OK
```

```

                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                OK
        Management Processor         OK
        I/O Configuration            OK
        Power                       OK
        Cooling                     OK
        Location                    OK
        Device Failure               OK
        Device Degraded             Failed
        iLO Network                  OK
    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:**

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

- **Description:**  
Displays the temperature sensor information for a specified server blade or range of server blades
- **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-0018FE27577F> SHOW SERVER TEMP ALL
```

```
Device Bay #1 Temperature Information
```

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: 37%
```

```
Device Bay #2 Temperature Information
```

Locale	Status	Temp	Caution
Critical			
-----			
Memory Zone	OK	44C/111F	81C 86C
CPU Zone	OK	39C/102F	70C 75C
CPU 1	OK	58C/ 0F	95C 100C
CPU 1	OK	58C/ 0F	95C 100C
System Zone	OK	26C/ 78F	40C 45C
CPU 2	OK	58C/ 0F	95C 100C
CPU 2	OK	58C/ 0F	95C 100C
Ambient Zone	OK	24C/ 75F	40C 45C

```
Virtual Fan: 51%
```

```
Device Bay #3 Temperature Information
```

```
No Server Blade Installed
```

```
Device Bay #4 Temperature Information
```

Locale	Status	Temp	Caution
Critical			
-----			
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

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%

Device Bay #5 Temperature Information  
Server Blade Type: Bay Subsumed

Device Bay #6 Temperature Information  
Server Blade Type: Bay Subsumed

Device Bay #7 Temperature Information  
No Server Blade Installed

Device Bay #8 Temperature Information  
No Server Blade Installed

## 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:**

All

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) ...
```

```
Server 7 Syslog:
<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
Num
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
Num
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
Num
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:**  
`CLEAR INTERCONNECT SESSION <bay number>`
- **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:**  
All  
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 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 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:**  
All  
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.
- 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:**
  - All
  - 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:**  
All  
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

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

- **Access level/Bay level:**

All

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 Type      Manufacturer      Power  Health  UID
Management IP
-----
-----
  1 Ethernet                HP                On     OK     Off
172.16.1.149
  2 [Absent]                HP                On     OK     Off
172.16.2.156
  3 [Absent]
  4 [Absent]
  5 [Absent]
  6 [Absent]
  7 [Absent]
  8 Fibre Channel          HP                On     OK     Off  0.0.0.0
Totals: 3 interconnect modules installed, 3 powered on.
```

OA-0018FE275723> SHOW INTERCONNECT LIST IPV6

```
Bay Interconnect Type  Power      Management IP
Type
-----
-----
  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]
```

Totals: 2 interconnect modules installed, 2 powered on.

## 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:**  
All  
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  

	Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16														
	Status		OK					OK			OK				
OK	Blade		2A					7			2B				
7	Mezz/Nic		NI					NI			NI				
NI	Port		1					1			1				
2															
	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:**  
All  
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:**  
All  
Bay specific
- **Restrictions:**  
You must have explicit access to a bay given by the ASSIGN INTERCONNECT command.
- **Example:**  
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:

```
Internal Data          OK
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**  
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-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  
3 - [Bay empty]  
4 - [Bay empty]

- 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>}
- **Description:**  
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.
- **Example:**  
OA-0018FE27577F> SHOW SYSLOG SETTINGS  
Remote log: Disabled  
Address:  
Port: 514

# 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
-----
usb://d1/hpoa225.bin
                                     Image Version
                                     -----
                                     2.25

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

- **Command:**  
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
- **Restrictions:**  
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 [<OA bay number>] <ip address> <netmask> [<gateway>]  
<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.

## SHOW VLAN

- **Command:**



SHOW VLAN

- **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
5      1
6      1
7      1
8      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:

- a. 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**

- 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> ["<proxy username>"] ["<proxy password>"]}`
- **Description:**  
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 :
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
    certificateVersion = 3
    issuerOrganization = Hewlett-Packard Company
    issuerOrganizationalUnit = Hewlett-Packard Insight
    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
validTo                  = 2013-10-09T22:57:20Z
serialNumber             =
6C:FB:78:3C:94:40:88:F1:DE:DF:26:55:3B:6B:C0:5B
extensionCount           = 0
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	Device	Serial	Perceived	Time	Event	
Number	Number	Bay	Severity	Submission	Type	Type
Number	Number	Bay	Severity	Status	Generated	
80965f29-7f7e-42ba-afb4-8bdc348c75bb	Enclosure	ENC1234567	0	Info	2013-11-11T12:23:09 CST	Test
b6cd7095-a561-4384-98b2-5e44744ea2dc	Enclosure	ENC1234567	0	Info	2013-11-11T12:25:09 CST	Test
f7824402-6646-4e02-b584-4c7a84b49504	Enclosure	ENC1234567	0	Info	2013-11-11T12:25:11 CST	Test
d45e1b4c-fa23-4b7e-917d-f9d3857aedfb	Enclosure	ENC1234567	0	Info	2013-11-11T12:25:12 CST	Test

## TEST REMOTE\_SUPPORT

- **Command:**  
TEST REMOTE\_SUPPORT
- **Description:**  
Sends a test service alert
- **Access level/Bay level:**  
OA administrator



- **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 | <bay number> {[ , | - ] <bay  
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:**  
All
- **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:**  
All
- **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.

<b>Event</b>	<b>Cause</b>
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.

<b>Event</b>	<b>Cause</b>
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/ComodRivadavia	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_Salem	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/Fakaofu	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/Casey	Antarctica/Mawson	Antarctica/South_Pole
------------------	-------------------	-----------------------

Antarctica/Davis	Antarctica/McMurdo	Antarctica/Syowa
Antarctica/DumontDUrville	Antarctica/Palmer	Antarctica/Vostok
Antarctica/Macquarie	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



---

# Documentation feedback

HP is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (<mailto:docsfeedback@hp.com>). Include the document title and part number, version number, or the URL when submitting your feedback.

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