



Hewlett Packard
Enterprise

HPE Workload Aware Security for Linux

1.2.0 version Troubleshooting guide

Abstract

This guide provides the troubleshooting tips for the installation, setup, and different operation of HPE Workload Aware Security for Linux (WASL) product.

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Troubleshooting SMS Setup

Use the menu driven command `/opt/hpe/wasl/sms/tools/wasl_sms.sh -setup` to set up WASL SMS product. Errors during setup are displayed on the console as the output of this command.

For more information about uninstalling and installing the WASL SMS product, see the *WASL Install and Setup guide*.

NOTE: If you uninstall WASL SMS, all the data related to any previous SMS installation will be lost.

Following are some of the errors and possible ways to make the WASL setup work.

Setup fails during importing of signed certificate.

Symptom

Setup fails while importing a signed certificate.

Action

Check the permission and ownership of the path and the certificates before importing. The certificates must be accessible by `wasl_sms` user. After fixing any issues with permissions, run the command `/opt/hpe/wasl/sms/tools/wasl_sms.sh -setup_cert` to import the signed certificate again.

Setup fails, with Couchbase Error: Generic network failure message.

Symptom

Setup fails, with Couchbase Error: Generic network failure message.

Cause

This message can appear if Couchbase Server is not running.

Action

1. Run the `service couchbase-server status` command to check if couchbase-server service is up and running.
2. If the service is not running, start the service by running the command `service couchbase-server start`.
3. Perform the WASL SMS setup after starting the couchbase-server service successfully.

Setup fails, with Unsupported encryption algorithm, or Unsupported pbkdf algorithm, or Unsupported RSA key size message

Symptom

Setup fails, with one of the following messages:

- Unsupported encryption algorithm
- Unsupported pbkdf algorithm or
- Unsupported RSA key size

Cause

The errors usually occur if you try to override the following parameters with a wrong value in the `custom_setupConfig.js` file:

- `setupConfig.sym.alg`
- `setupConfig.sym.pbkdf`
- `setupConfig.rsa.keysize` or
- `setupConfig.rsa.key_enc_alg`

Action

- The default setup parameter of WASL SMS is available in the `/opt/hpe/wasl/sms/config/default_setupConfig.js` file and works for most of the cases.
- These parameters can be overridden in `/opt/hpe/wasl/sms/config/custom_setupConfig.js` custom setup configuration file before initiating WASL SMS setup.
- Verify if you have overridden a parameter in the custom setup configuration file. Ensure that these values are correct.

Troubleshooting SMS startup and run

You can start WASL SMS by using the command:

```
service hpe-wasl-sms start
```

The `service hpe-wasl-sms start` command will internally call `/opt/hpe/wasl/sms/tools/wasl_sms.sh -start [-use_stash_file]` command to start WASL SMS.

SMS fails to start and the `wasl_sms.log` file contains Master password may be incorrect message

Symptom

SMS fails to start and `wasl_sms.log` file contains Master password may be incorrect message.

Cause

You might be providing an incorrect password while starting SMS.

Action

1. If you are starting SMS from command line, ensure that you provide the right master password, at the prompt.

```
# ./wasl_sms.sh -start
Enter the master password: *****
```

For more information, see the `/var/log/hpe_wasl_sms/wasl_sms.log` file.

2. If you have forgotten the master password, but a recovery password was configured during the setup, run the script `/opt/hpe/wasl/sms/tools/wasl_sms.sh -reset_password` to reset the master password.

SMS fails to start with, Exception during certificates processing message

Symptom

SMS fails to start with, Exception during certificates processing message.

Cause

The certificate is used by SMS to start the WEB service and enable HTTPS connections. And this certificate might not be available.

Action

To overcome this issue, set up the SMS certificates by running the command `/opt/hpe/wasl/sms/tools/wasl_sms.sh -setup_cert` before starting SMS.

SMS fails to start and the `wasl_sms.log` file contains parameter in `config.js` set to an invalid value message

Symptom

SMS fails to start and the `wasl_sms.log` file contains parameter in `config.js` set to an invalid value message.

Cause

The errors usually occur if you try to override the SMS parameters like `config.web.secure_protocol`, `config.web.ciphers`, and others with a wrong value.

Action

- The default setup parameter of WASL SMS is available in the `/opt/hpe/wasl/sms/config/default_setupConfig.js` file and works for most of the cases.
- These parameters can be overridden in `/opt/hpe/wasl/sms/config/custom_setupConfig.js` custom setup configuration file before initiating the WASL SMS setup.
- Verify if you have overridden a parameter in the custom setup configuration file. Ensure that these values are correct.

WASL SMS fails to start or fails during system reboot

Symptom

WASL SMS fails to start when you start it using the start command `service hpe-wasl-sms start` or it fails during system reboot.

Solution 1

Cause

The start command requires the stash file to be available at `/opt/hpe/wasl/sms/data/stashfile`. The file must be owned by `wasl_sms` user group. This file will not be created, if you have chosen not to do so during WASL SMS setup.

Action

1. To create the file, run the command `/opt/hpe/wasl/sms/tools/wasl_sms.sh -create_stash_file`
This command requires you to enter the master password, to store this password in the `stashfile`.
2. To reset the master password, run the `/opt/hpe/wasl/sms/tools/wasl_sms.sh -reset_password` command.

You must have the old master password or the recovery password, to be able to reset the master password.

Solution 2

Action

Usually no message is displayed on the console when WASL SMS is started using “service hpe-wasl-sms start” command. Most of these messages get redirected to following files:

- /var/log/hpe_wasl_sms/wasl_sms_daemon.log
- /var/log/hpe_wasl_sms/wasl_sms.log
- /var/log/boot.msg

1. Review the contents of the log files and troubleshoot the issue based on the other troubleshooting tips of this section.

SMS fails to start, with Couchbase Server is not running message

Symptom

SMS fails to start, with Couchbase Server is not running message

Action

1. Run the `service couchbase-server status` command to check if couchbase-server service is up and running.
2. If the service is not running, start the service by running the command `service couchbase-server start`.
3. Start WASL SMS, after starting the couchbase-server service successfully.

SMS fails to start, with Couchbase Server bucket 'wasl_sms_bucket' is not accessible at cluster URL <cluster-url> message

Symptom

SMS fails to start, with Couchbase Server bucket 'wasl_sms_bucket' is not accessible at cluster URL <cluster-url> message.

Cause

- The couchbase-server service might not be running or
- The Couchbase Server might not be listening to the configured port number

Action

1. To check if couchbase-server service is up and running, run the `service couchbase-server status` command.
2. If the service is running, run the command `netstat -an | grep <configured-port-number>` to check if the Couchbase Server is listening to the port number in the configuration parameter `config.db.cluster_url` in either `/opt/hpe/wasl/sms/config/auto-gen/setup_config.js` or `/opt/hpe/wasl/sms/config/custom_config.js` files.
3. If the Couchbase Server is not listening to the configured port number, find the port number to which Couchbase Server is listening to.
4. Configure that port number to which the Couchbase Server is listening to in the configuration parameter `config.db.cluster_url` in `custom_config.js` file.

WASL SMS runs for some time and then stops.

Symptom

WASL SMS runs for some time and then stops.

Cause

The couchbase-server service might have stopped running.

Action

1. Run the command `service couchbase-server status` to verify if the couchbase-server service is up and running.
2. If the service is not running, start the service by running the command `service couchbase-server start`.
3. Start WASL SMS, after starting the couchbase-server service successfully.

SMS fails to stop

Symptom

SMS sometimes fails to stop.

Cause

When SMS has been started using the `systemctl start` command, stopping the process using the `wasl_sms.sh` script might fail.

Action

It is recommended that you use either `systemctl` or the `wasl_sms.sh` script exclusively for both starting and stopping SMS.

Troubleshooting SMS password reset

You can run the command `/opt/hpe/wasl/sms/tools/wasl_sms.sh -reset_password` to reset the SMS password. You will need either the master password or recovery password to reset any password. If the stash file (`/opt/hpe/wasl/sms/data/stashfile`) is configured during WASL SMS setup, then the master password in this file will be used.

Following passwords can be reset using the command `/opt/hpe/wasl/sms/tools/wasl_sms.sh -reset_password`:

- Master password
- Recovery Password
- Couchbase cluster password
- Couchbase bucket password

For any password reset operation, the Couchbase Server must be running. It should allow the connections to happen even if some of the data (like keys) will be encrypted using old password and stored on the Couchbase Server. This data must be decrypted and encrypted using new key.

The reset password also uses algorithms to perform encryption and hashing of keys with the new password. If any custom changes are done to the algorithm by changing the configuration files, `/opt/hpe/wasl/sms/config/custom_config.js` or `/opt/hpe/wasl/sms/config/custom_setupConfig.js`, then you must ensure that these changes are correct. Ensure that `config.sym.alg`, `config.sym.pbkdf`, `setupConfig.rsa.keysize`, `setupConfig.rsa.key_enc_alg` parameters are set to correct values.

The password reset process does not terminate when you press `ctrl-c`

Symptom

The password reset process does not terminate when you press `ctrl-c` at the password prompts.

Action

It is recommended that you complete the password reset operation after it is initiated. Terminating the program might take the SMS data to an inconsistent state.

1. However, if you still want to terminate the process, log into a separate terminal and kill the process/sub process running the `wasl_sms.sh -reset_password` command.

Reset password fails with **ERROR: command: cluster-edit**, **ERROR: command: bucket-edit**, or **ERROR: unable to bucket-edit messages**

Symptom

Reset password fails with one of the error messages:

- ERROR: command: cluster-edit
- ERROR: command: bucket-edit or
- ERROR: unable to bucket-edit

Cause

This error might occur if the Couchbase Server is not up and running.

Action

1. To check if couchbase-server service is up and running, run the `service couchbase-server status` command.
2. If the service is running, run the command `netstat -an | grep <configured-port-number>` to check if the Couchbase Server is listening to the port number in the configuration parameter `config.db.cluster_url` in either `/opt/hpe/wasl/sms/config/auto-gen/setup_config.js` or `/opt/hpe/wasl/sms/config/custom_config.js` files.
3. If the Couchbase Server is not listening to the configured port number, find the port number to which Couchbase Server is listening to.
4. Configure that port number to which the Couchbase Server is listening to in the configuration parameter `config.db.cluster_url` in `custom_config.js` file.

Troubleshooting connection issues connecting WASL SMS through a browser

Unable to connect to WASL SMS from browser

Symptom

Unable to connect to WASL SMS from browser.

Cause

There can be multiple reasons for not connecting to WASL SMS from a browser.

Action

1. Check if the WASL SMS is up and running properly.
Run `ps -ef | grep -i wasl` command on the SMS node and check if `/opt/hpe/wasl/nodejs/usr/bin/node /opt/hpe/wasl/sms/server/server.js` process is running.
2. If SMS is not up, start it.
3. Check if the port used by WASL SMS is not used by other application.
Run `netstat -anp | grep -I <port_number>` to identify the program that is listening on the SMS port. Ensure that this program is the `/opt/hpe/wasl/nodejs/usr/bin/node` program.
4. Check if the Port number and the IP address on which WASL SMS is listening is not blocked by any firewall.

Connection from a browser is not established with ERR_SSL_VERSION_OR_CIPHER_MISMATCH error in the browser

Symptom

Connection from a browser is not established with `ERR_SSL_VERSION_OR_CIPHER_MISMATCH` error in the browser.

Cause

SMS uses TLS 1.2 protocol and secure ciphers by default for SSL HTTPS connection handshake. In case the browser does not support the SSL protocol version or the ciphers, the connection with SMS fails. Enable other SSL protocol version and ciphers in SMS.

Action

1. Override the default `config.web.ciphers=<valid-cipher>` and `config.web.secure_protocol=<valid-protocols>` in `/opt/hpe/wasl/sms/config/custom_config.js` file.
2. Restart WASL SMS to change the SSL protocol and ciphers.

Browser pages stalls with HPE Workload Aware Security for Linux is almost ready... message

Symptom

Browser pages stalls with HPE Workload Aware Security for Linux is almost ready... message. This message usually appears after clicking the **Restart** button from the **SMS Settings** menu.

Cause

The browser stalls due to caching issues.

Action

1. Click the User icon on the browser to logout of SMS.
2. Log in into SMS again to display the SMS pages properly.

Browser shows that the SMS certificate has expired

Symptom

Browser shows that the SMS certificate has expired.

Action

1. Check the certificate that is provided on the browser.
2. If the certificate has expired, check the **Date/time** on the SMS node (use the date command) and set it correctly.
3. Check the **Date/time** on the system from which you are browsing to SMS node and set it correctly if it is not correct.
4. If the issue persists, either regenerate the SMS certificate or import a new signed certificate to SMS using `/opt/hpe/wasl/sms/tools/wasl_sms.sh -setup_cert` command.

Troubleshooting Workload Management and Operation

Workload registration, editing, or operation displays **Failed to connect to the node message**

Symptom

Workload registration, editing, or operation fails with `Failed to connect to the node message`.

Cause

This problem occurs if SMS is unable to SSH to the node with the credentials provided.

Action

1. Ensure that the SSH daemon service is running on the node and the service is reachable from the SMS node.
2. Also ensure the user name and password provided during workload registration is correct.
3. If the credentials are different, edit the workload and provide the correct username and passwords.

Workload registration, editing, and deploying a policy displays **Failed to perform the operation on the remote node message**

Symptom

Workload registration, editing, and deploying a policy displays `Failed to perform the operation on the remote node message`. Status indicates that the problem exists while creating a directory or changing to specific directory.

Action

Check if the user provided in the `Host Username` during workload registration has a proper home directory. And if appropriate write permission is assigned to this directory.

SAP HANA workload registration/editing displays **SAP HANA python client not found message**.

Symptom

SAP HANA workload registration/editing displays `SAP HANA python client not found message`.

Cause

WASL SAP HANA packages uses SAP HANA client, `HDB_CLIENT` provided with SAP HANA database to connect to SAP HANA database. This problem can arise if the `HDB_CLIENT` package is not installed.

Action

1. Verify if the Python `PyDBAPI` file `/usr/sap/hdbclient/hdbcli/dbapi.py` is available to confirm if SAP HANA Client - `HDB_CLIENT` is installed on the SAP HANA node.
2. Install this package if it is not available..
3. Alternatively, WASL can also use the SAP HANA's `<SID>adm OS user account` (`<SID>` is the system identifier of SAP HANA), which does not require SAP HANA Client - `HDB_CLIENT` to be installed. For more information, see the “*Add or Register Workload*” section in the *WASL User Guide*.

Operations on SAP HANA (workload registration and editing) displays SAP HANA DB User does not have privileges message

Symptom

Operations on SAP HANA (workload registration and editing) display SAP HANA DB User does not have privileges message.

Action

1. Check the privileges of the SAP HANA DB Username that is provided to the SAP HANA workload element.
2. Ensure that this user has the correct privileges on the SAP HANA systems. For more information about the required privileges, see *Add or Register Workload* section in the *WASL User Guide*.

SAP HANA workload registration/editing/operation displays Could not connect to SAP HANA DATABASE. SSL key store cannot be found message

Symptom

SAP HANA workload registration/editing/operation displays Could not connect to SAP HANA DATABASE. SSL key store cannot be found message.

Cause

SAP HANA can mandate SSL only connections to its database by using the `ssl enforce` parameter in its `global.ini` file. In such cases, WASL requires SSL certificates that are signed by the SAP HANA server certificates to connect to SAP HANA. This process is automatically done during the WASL HANA node installation.

The error message occurs if the certificates for WASL are not generated properly or it has expired.

Action

1. You can regenerate the certificates again by editing the workload and selecting `Install Packages` option and save the workload from SMS.
2. Alternatively, you can run the `/opt/hpe/wasl/core/bin/wasl-setup -- waslhanuser_cert_gen --sidadm=<sid>adm` command to set up the certificates on the end SAP HANA node. For more information, see the *WASL Install and Setup Guide*.

SAP HANA workload registration/editing displays WASL library for HANA not found, please install the library message.

Symptom

SAP HANA workload registration/editing displays `WASL library for HANA not found, please install the library message`.

Cause

The WASL HANA node packages might not be installed.

Action

1. Check the license that you have obtained for using WASL.
WASL HANA-related packages are shipped only with the advanced license.
2. Reinstall the WASL Node packages again with all the packages. For more information, see *WASL Install and Setup Guide*.

Operations on SAP HANA (workload registration and editing) displays Could not connect to SAP HANA database message

Symptom

Operations on SAP HANA (workload registration and editing) displays `Could not connect to SAP HANA database message`.

Action

1. Verify the details provided while registering the SAP HANA workload element.
2. Verify if SAP HANA is running on the end node.

SAP HANA workload registration/editing/operation displays Validate of SAP HANA hardening failed message

Symptom

SAP HANA workload registration/editing/operation displays Validate of SAP HANA hardening failed message.

Action

View the log file `/var/opt/hpe/was1/core/log/hana/hanalog.txt` on the end node to identify the issue.

SAP HANA workload registration/editing displays SSL Certificate generation for user waslhanuser failed message.

Symptom

SAP HANA workload registration/editing displays SSL Certificate generation for user `waslhanuser` failed message. This message is displayed in the **additional details** section of the status.

Action

1. Verify the System ID entered while registering the workload:

```
...  
chown: invalid user: '<sid>adm'  
sudo: unknown user: <sid>adm  
sudo: unable to initialize policy plugin  
...
```

2. Correct the System ID and register or edit the workload again.

Evaluation or remediation of workload displays Policy does not exist: <profile_name> status

Symptom

Evaluation or remediation of workload displays Policy does not exist: <profile_name> status.

Cause

User might have deleted the policy files inadvertently on end node or changed the permissions of the policy directories.

Action

Undeploy the policy and redeploying it again.

Workload registration, editing, or operation displays Failed to encrypt password message

Symptom

Workload registration, editing, or operation displays `Failed to encrypt password message`.

Cause

During workload registration, the passwords of the workload are encrypted before storing into the database. The error message occurs if any custom changes were made to the algorithm that is used to encrypt the passwords.

Action

Check if `config.sym.alg` and `config.sym.pbkdfg` parameters are overridden in the custom configuration file: `/opt/hpe/wasl/sms/config/custom_config.js` and if their values are correct.

Workload operations displays error message and workload goes into an Unknown or Offline state

Symptom

Workload operations display error message and workload goes into an **Unknown** or **Offline** state. You cannot perform any other operation except for **Edit** or **Disable** workload after the error occurs.

Cause

Workload can go into **Unknown** or **Offline** state for various reasons, such as.

The end node going down or losing the connection to the end node while the operation is in progress.

Action

After end node is active and reachable to the SMS system, edit the workload containing this node and save the workload. Editing the workload enables all the operations such as Evaluate, Remediate, Rollback, Reset, and others on the workload again.

Workload Operation displays Lock request timed out. Another instance of WASL seems to be running message.

Symptom

Workload Operation displays `Lock request timed out. Another instance of WASL seems to be running message`.

Cause

This issue occurs rarely and happens on the workload where many policies are deployed. All these policies are either evaluated or remediated in one go. Some of the workload operation might time out.

WASL ensures that only one of the WASL operations is in progress on a Node at a time. The rest of the operations are made to wait. The other operations wait until the specific WASL operation completes running or the timeout value is reached. The timeout is set through the parameter

`HARDENING_LOCK_TIMEOUT` on the end Node. The value of the `HARDENING_LOCK_TIMEOUT` parameter is set to 3600 seconds (20 minutes) by default in the `/opt/hpe/wasl/core/config/default_config.py` file on end Node.

Action

You can override this value by setting the `HARDENING_LOCK_TIMEOUT` =`<new_timeout_in_seconds>` in `/opt/hpe/wasl/core/config/user_config.py` file on the end node to avoid the error.

How to the enable debug option on the end node

Symptom

Enabling the debug option on end node.

Action

Edit the `/opt/hpe/wasl/core/config/user_config.py` file and set the `log_level` to `DEBUG` option, to enable debugging on end node.

You can find the log in subdirectories of `/var/opt/hpe/wasl/core/log/`.

Troubleshooting User Management

Unable to delete users from SMS

Symptom

Unable to delete users from SMS.

Cause

SMS does not allow users who have already logged in or whose passwords have been reset, from being deleted. You cannot delete users for auditing purposes, so that all the activities done by this user can be mapped back.

Action

If required, you can de-activate a user from SMS.

Troubleshooting Policy Management

Import or copy of policy fails

Symptom

Import or copy of policy fails.

Action

- If you are importing a policy, check if the policy is having the correct format and size as requested in the policy import screen.
- The names of archived directory, XCCDF file, JSON file, and the resultant archive file must be the same.
- The naming conventions of the profiles inside the XCCDF file must comply with `xccdf_[^_]+profile.+` syntax as per XCCDF 1.2 Specification.
- JSON file must follow the guidelines mentioned in the documentation.
- The size of the upload file must be less than 100MB and must be a `.TAR.GZ` or `.ZIP` file.
- For both importing and copying a policy, verify the disk space on the partition holding `/var/opt/hpe` directory on SMS node. Ensure that there is sufficient space left on this partition.
- If you are importing a policy, ensure that the profiles inside the XCCDF file getting imported has unique title, not matching with any policies on SMS. The profile title is used to uniquely identify the policy in SMS.

Policy reload fails

Symptom

Policy reload fails.

Action

1. Check the syntax of the tailoring XML file which you are trying to reload and correct any issues.
2. Also, check the ownership and permission of the tailoring file.

The tailoring XML file must be owned by `waslsms` user and group. The file must be writable/readable by owner and group user.

Unable to delete a policy

Symptom

Unable to delete a policy.

Cause

- The default policies shipped with WASL cannot be deleted.
- The policies defined by user can be deleted before it is deployed on any workload.
- After the user-defined policy is deployed on any workload, then that policy cannot be deleted. It can only be disabled.
- You are prevented from deleting the policies for auditing purposes.

Action

Ensure that you are not deleting the default policies or the policies deployed on a workload.

Troubleshooting **Activity** page

Scrolling down the activity pages takes much time and usually shows an in progress icon for a long duration

Symptom

Scrolling down the activity pages takes much time and usually shows an in progress icon for a long duration.

Cause

This issue can occur if a browser event to load more data was missed by the client.

Action

1. You can try to scroll up and scroll down again in order to trigger this event again. In most cases, you should be able to see more activities getting loaded.
2. In case you are interested in activities for a specific duration, you can apply the **From Date** and **To Date** filter, to get the activities displayed quickly.
3. You can also apply other filters based on the requirement.

Troubleshooting Setting changes

Changes to Maximum Password Length does not impact the password length in current password and for new user.

Symptom

Changes to the `Maximum Password Length` parameter do not impact the password length in current password and for new user.

Cause

The modified `Maximum Password Length` does not impact for the current session.

Action

Restart the Management Station to kick in the change.

Troubleshooting SMS migration

Missing stash file

Symptom

The stash file is missing after SMS has been migrated or restored.

Cause

If during the backup or restore process, an incorrect master password or recovery password was provided, the stash file is deleted.

Action

Copy and restore the stash file from a known location.

Websites

General websites

Hewlett Packard Enterprise Information Library

www.hpe.com/info/EIL

Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix

www.hpe.com/storage/spock

Storage white papers and analyst reports

www.hpe.com/storage/whitepapers

For additional websites, see **[Support and other resources](#)**.

Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:
<http://www.hpe.com/assistance>
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:
<http://www.hpe.com/support/hpesc>

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:
Hewlett Packard Enterprise Support Center
www.hpe.com/support/hpesc
Hewlett Packard Enterprise Support Center: Software downloads
www.hpe.com/support/downloads
Software Depot
www.hpe.com/support/softwaredepot
- To subscribe to eNewsletters and alerts:
www.hpe.com/support/e-updates
- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:
www.hpe.com/support/AccessToSupportMaterials

! **IMPORTANT:** Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

<http://www.hpe.com/support/selfrepair>

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

Remote support and Proactive Care information

HPE Get Connected

www.hpe.com/services/getconnected

HPE Proactive Care services

www.hpe.com/services/proactivecare

HPE Proactive Care service: Supported products list

www.hpe.com/services/proactivecaresupportedproducts

HPE Proactive Care advanced service: Supported products list

www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information

Proactive Care central

www.hpe.com/services/proactivecarecentral

Proactive Care service activation

www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

To view the warranty information for your product, see the links provided below:

HPE ProLiant and IA-32 Servers and Options

www.hpe.com/support/ProLiantServers-Warranties

HPE Enterprise and Cloudline Servers

www.hpe.com/support/EnterpriseServers-Warranties

HPE Storage Products

www.hpe.com/support/Storage-Warranties

HPE Networking Products

www.hpe.com/support/Networking-Warranties

Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

www.hpe.com/info/reach

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

www.hpe.com/info/ecodata

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

www.hpe.com/info/environment

Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hpe.com). When submitting your feedback, include the document title, part number, edition, and publication date located on the front cover of the document. For online help content, include the product name, product version, help edition, and publication date located on the legal notices page.