

# HP VAN SDN Controller Release Notes

## Abstract

This document contains supplemental information for HP VAN SDN Controller Release 2.0.

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Fixes for security vulnerabilities are not documented in manuals, release notes, or other forms of product documentation.

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To find any Security Bulletins for the HP VAN SDN Controller, visit the HP Networking manuals web page:

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# Contents

Description.....	4
Issues and suggested actions.....	4
HP VAN SDN Controller issues.....	4
Switch software issues affecting HP VAN SDN Controller operations.....	5
Documentation feedback.....	6

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## Description

For the latest version of these release notes and HP VAN SDN Controller 2.0 user guides, see the HP Networking support search site.

1. Open your browser and go to: [www.hp.com/support/manuals](http://www.hp.com/support/manuals).
2. Use the tools provided to search by product name (for example, VAN SDN Controller) or product number.

Detailed information about the selected product displays, including a list of Support options in the left column.

## Issues and suggested actions

### HP VAN SDN Controller issues

The following are known issues with HP VAN Controller Release 2.0:

- **REST call to get all the ports takes 5 seconds when the number of ports is 40k** (CR141008)—The REST call to get all ports takes more time as the number of ports increases.
- **Auxiliary connections established by the device to the controller are not visible via REST or the UI** (CR140089)—Manage the device auxiliary connections to the controller from the switch by telnetting to the switch.
- **When using Internet Explorer 9 or Internet Explorer 10, the controller console is blank** (CR138915)—Currently, IE 9 is not supported, and IE 10 has limited support. In IE 10, OpenFlow Topology is unavailable.
- **When restarting the `sdncservice` database, exceptions are reported in logs** (CR141589)—The following errors are expected only during the initialization phase, and don't describe any unexpected behavior:
  - `[2013-10-03 11:31:39.890] INFO t Resolve Thread (Bundle 81) System.outInternal Exception: org.postgresql.util.PSQLException: ERROR: relation "X" already exists...`
  - `[2013-10-03 11:31:39.899] INFO t Resolve Thread (Bundle 81) System.out[EL Warning]: ServerSession(2136794997) --Exception [EclipseLink-4002] (Eclipse Persistence Services - 2.4.2.v20130514-5956486): org.eclipse.persistence.exceptions.DatabaseException`
- **Topology Map fails to display network-wide computed trees** (CR137780)—The topology viewer in HP VAN SDN Controller 2.0 topology UI shows only the devices discovered by the controller pointed to by the browser, not the entire topology discovered by a team of controllers.
- **OpenFlow topology GUI is not optimal when a large number of hosts or devices are connected** (CR140798)—The HP VAN SDN Controller 2.0 topology UI is not intended to represent large topologies consisting of hundreds of elements.
- **On team reboot, suppressed ports are lost** (CR137854)—Suppressed ports information (specifying the ports on which want to stop LLDP traffic) is not stored in persistence, and is lost whenever the controller reboots. HP recommends that you maintain a backup of your suppressed ports configuration.
- **Comware switch OpenFlow behavior** (CR138462)—When a flow is pushed to a extensibility table with `apply_actions` as the instruction type, and the retrieved Flow Statistics using Multipart Request `apply_actions` is correct, the CLI always shows `Write actions`.
- **Tagged link between two devices is not discovered** (CR138547)—If a link exists between a pair of ports tagged to two different VLAN instances in Aggregate mode in OpenFlow, links

are discovered correctly in the HP VAN SDN Controller between only one of the VLAN instances. The link between the other VLAN instances is not discovered. This issue does not occur in Virtualized mode.

- **Link Discovery displays link across two OpenFlow instances** (CR139375)—The Link Discovery application in the HP VAN SDN Controller shows links between two OpenFlow instances when the same port is tagged to two different VLANs associated with the two OpenFlow instances in Comware (5900) devices.
- **Group/meter create/update/delete require optional and redundant command attribute** (CR141930)—When using the REST API for creating/updating/deleting a group/meter, including the JSON request in the command field is required.
- **During installation through the Ubuntu software center, the HP VAN SDN Controller Debian package displays a “Package is of bad quality” error message** (CR141745)—HP VAN SDN Controller installation through the Ubuntu software center is not supported.
- **Output of REST API to fetch application with name parameter is inconsistent** (CR141736)—The HP VAN SDN Controller Application Manager REST API for fetching applications currently fetches all applications. There is no support for a filter based on query parameters.
- **Jconsole utility is not available in openjdk-7-jre-headless, which is a dependency before installing the HP VAN SDN Controller**—If you create metrics in the HP VAN SDN Controller, and then try to open the Jconsole to see the metrics, a message displays saying that Jconsole cannot be found.
- **HP VAN SDN Controller failed to delete clean start memento /tmp/HPN Van Controller.clean, error message in the log.log file** (CR142605) —This is a temporary file that is only created during a restore or upgrade during normal operation when the OSGi Virgo container is restarted with the `—clean` option.
- **Zookeeper warning logged during initialization** (CR138057)—The HP VAN SDN Controller 2.0 includes ZooKeeper connection logs. Failed connection attempts are normal during Controller initialization and configuration changes and can be ignored.
- **Delete failed error exception is noticed from teaming module in the log.log file** (CR142603)—The HP VAN SDN Controller 2.0 tries to cleanup internal data structures during Controller initialization and configuration changes and logs error message if data is not found. This is normal during Controller initialization and configuration changes and can be ignored.
- **Backup/Restore fails when manual upload/download of backup files when file owner changes to anyone other than sdn user** (CR138689)—Any manual operation on the VAN SDN Controller, other than using the REST APIs through curl can change the file attributes from sdn username to Operator username. The backup/restore fails if you perform a manual upload/download of files. To avoid this, always perform any manual operation via curl using the REST APIs.
- **Keystone-related SDN user password changes are not restored properly** (CR141586)—If the default sdn password is changed from `skyline` using keystone and the backup operation is done, you cannot login with the new password after restore operation. You must still use the default password (`skyline`) for login.

## Switch software issues affecting HP VAN SDN Controller operations

The following are known issues with switch software affecting HP VAN Controller Release 2.0 operations:

- **Flow is not added or retrieved correctly** (CR138494)—The `VLAN_VID: PRESENT` bit is not set for VLAN ID, which indicates an incorrectly formed `VLAN_VID` match field from a Match structure in a `MultipartReply / FlowStats` element.
- **Unable to modify vlan\_vid in table 101** (CR140524)—A switch error occurs if you push Flow Mod with the `vlan_vid` value as part of `set-fields`.

- **Connected Links disappear between the OpenFlow switches when spanning tree is enabled (CR140755)**—When enabling spanning tree in OpenFlow switches, controller-sent LLDP packets are not being forwarded from STP\_BLOCKED ports, causing the discovered links to be deleted and link rediscovery to not occur on the ports.
- **Openflow 1.3 badly formed MultipartReply/FLOW stats message (CR142663)**  
—java.lang.IllegalStateException: “Timed-out waiting for response” might appear when the REST API is invoked to list all flows on a datapath from the SDN Controller. This occurs due to the information sent from the switch firmware.
- **When RESTAPI /stats/ports/ is executed with dpid & portid filter, an exception is thrown with response code 500 (CR142114)** —HTTP/1.1 500 Internal Server Error might appear when the REST API is invoked to get stats for a port (GET /stats/ports) in a datapath from the SDN Controller. This appears due to the incorrect information from the Openflow devices (Switch CR 131910:dpctl stats-port <port> command displays empty stats.)
- **The RESTAPI /datapaths/{dpid}/ports/{port\_id}/action fails to change the state of the port (CR140753)**—The port state does not get changed when the REST API is invoked to change the state of a port in a datapath from the SDN Controller due to the design in the Provision switches.

## Documentation feedback

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