AVAYA CONFIGURATION AND ORCHESTRATION MANAGER

Release 3.1.1

Release Notes

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1. Summary

COM 3.1.1 Release Date: January 28th, 2015.

Purpose: The Configuration & Orchestration Manager (COM) 3.1.1 Release Notes provide the following information:

- General release information including Changes/Bug fixes in COM 3.1.1
- Supported operating systems, hardware requirements and browser clients
- Known issues and limitations

2. Important Notes before Installing this Release

COM 3.1.1 is a minor release which follows the previous release COM 3.1 based on **Avaya Aura System Manager version 6.3**. This release addresses several customer issues and new device support.

Important!

- **Only Microsoft Windows Server 2008 R2 (64-bit standard and enterprise editions) SP1 and Red Hat Enterprise Linux (RHEL) v5.6 and v5.7 (both 64 bit) are supported**.
- Refer to section 4 for details on the hardware requirements for the server.
- COM 3.1.1 can be installed only as a Primary SMGR-CS server.
- Installer supports fresh installation of COM 3.1.1, as well as upgrade from COM 3.0.1, COM 3.0.2 and COM 3.1.
- Manual data migration is supported from existing installations of COM 3.0.1 and COM 3.0.2.
- COM 3.1.1 does not support co-residency with VPFM.
- Virtualization Provisioning Service (VPS) version v1.1 cannot be installed afresh on COM 3.1.1. The existing system(s) where COM R3.1 and VPS R1.1 are installed, COM 3.1 once upgraded to COM R3.1.1, user will be able to launch VPS and perform all the action. Though, a warning will be displayed at the time of VPS launch that the VPS R1.1 is not compatible with COM R3.1.1.
- Older versions of VPS are not supported on COM 3.1.1.
- COM 3.1 license will work for COM 3.1.1. Upgrade or migration from COM 3.0.x to 3.1.1 would require new license.
- COM 3.1 OVA upgrade to COM 3.1.1 can be done by running COM 3.1.1 installer.

General Instructions:

- Please read this Release Notes completely before installing COM 3.1.1.
- The Linux bin file needs to have appropriate permissions before installing. Use the command: *chmod 777 <filename>* before executing the Linux installer.

3. What is new in this release

3.1. New in this release

❖ Device support

- Full Support for –
    - ERS 4800 v5.8
    - ERS 5500/5600 v6.3.4 and v6.6.1
    - VSP 7000 v10.3.1, v10.3.2, and v10.3.3
    - VSP 4000 v4.0 (New Model VSP4450 GSX-PWR+), v4.0.40 (New Model VSP4450 GTX-HT-PWR+) and v4.0.50 (New Model VSP-4450GSX-PWR+)
    - VSP 8200 v4.0.1.1
    - VSP 9000 v3.4.5.0
    - ERS 8000 v7.2.13, v7.2.14.x, and v7.2.15

- Partial (Discovery and EDM Plugin) Support for –
    - VSP 8200 v4.1
    - VSP 4000 v4.1

❖ Enhancements

- BCM Configuration and Backup Restore “Enable Diff” feature will now be part of base license.

3.2. Issues Resolved in this release

Following bugs have been fixed in COM 3.1.1 release

WI id	Description
Wi01012894	COM 3.0 Trials: Device Save Configuration Tool should have "Device Name" column
Wi01105269	COM 3.0.1 ibdata1 MySQL database file growing too large
Wi01131807	COM 3.0.2 BCM backup changes the boot mode on a 5520
Wi01141125	COM/BCM3.0.2-scheduler displays no tasks
Wi01159711	COM / Inventory Manager / no GBIC tab info provided if 8600 is in ACLI mode
Wi01173263	COM 3.0.2 - Cannot open SSH connection using CLI Manager
Wi01175370	COM 3.1 - Improve the "EDM plugin version mismatch" message display rule
Wi01185021	BCM Scheduler gets blocked in certain circumstances
Wi01187444	COM 3.1 install fails
Wi01183561	CCHMC: COM Optimizations for Device invent
Wi01190631	COM 3.1 - admin user cannot login back to the system after screen locker gets activated
WI01193342	COM 3.1 - OVA file download gets truncated
Wi01204535	COM 3.1 - Belden Hirschman devices not discovered after upgrade from COM 3.0.2
wi01193960	COM 3.1 - Email function does not work when COM 3.1 installed from OVA package
wi01196131	COM 3.1 - Base Unit card missing when displaying Port Status for “ERS4524GT-PWR” stack
wi01197906	COM 3.0.2/3.1 EDM ERS 8800 with plugin 7.2.13 does not display full arp table
wi01201330*	COM / BCM - "enable diff" feature part of base license
wi00985985	COM3.0 - CLI*manager does not work on COM 3.0 for telnet or SSH connections
wi01194286	EDM plugin causes high cpu utilization
wi01113095	BCM3.0.1-error when opening application
wi01197020	COM 3.1 unable to generate CSR request
wi01205430	Inventory Manager error/Philadelphia airport
wi01204756	COM 3.0.2/3.1 BCM restore doesn't restore the entire vlan config

4. Server and Client Requirements

4.1. Server Requirements

The server requirements are same as COM 3.1 and hasn't changed

Hardware:

Following hardware/VM configuration is recommended for COM primary server setup.

HW Component	Critical	Minimum	Recommended
CPU	Quad-core 2GHz	Quad-core 2GHz	Quad-core 2GHz
Memory	4 GB	6 GB	8 GB
Free Disk Space	60 GB	60 GB	80 GB

Important!

- From COM 3.1 onwards, the RAM requirement has gone up by 2 GB.

Operating System:

Operating system	Version
Microsoft Windows	64-bit Windows Server 2008 R2 (standard and enterprise editions) SP1
Linux	64-bit RHEL v5.6 and v5.7

Application memory:

The heap memory requirement for COM depends on the size of the network that will be managed using COM.

Network Size	Heap Memory Requirement for COM (Recommended)
Small (< 250 devices)	4 GB
Medium (250 to 750 devices)	6 GB
Large (750 to 1500 devices)	8 GB *(Physical RAM on the m/c also needs to be increased accordingly)*

The default heap size for COM 3.1.1 is set to 4GB. If as per the above table, a higher heap size is required, please contact Avaya Support team to have them make the required changes to COM setup.

4.2. Client Requirements

Browser	Version
Internet Explorer (IE)	Versions 8, 9 and 10
FireFox (FF)	Versions 19, 20 and 21

5. Licensing

COM 3.1 license will work for COM 3.1.1. New license is required only when upgrading/migrating from COM 3.0.1 and COM 3.0.2 to COM 3.1.1.

6. Pre-requisites for the COM 3.1.1 installation/upgradation

1. It is recommended to have the IP & FQDN entries in etc\drivers\hosts in windows and /etc/hosts in Linux.
2. Hostname (FQDN) in the “hosts” file and the Computer-Name must be same; else FQDN resolution during module-registry fails.

   The file is hosts file and path is etc\drivers\hosts in windows and /etc/hosts in Linux.

   Computer-Name:

   On Windows: My Computer >> Properties >> Full computer name

   On Linux: System >> Administration >> Network >> DNS >> Host Name
3. It is recommended to have the “Domain Profile – Windows Firewall” off since it may block some ports during installation.
4. On Windows operating system, it is recommended to have the “Password Policy” globally disabled.
5. It is recommended to have the time/clock on the VM within (+/-) 24 hours of the actual time since CND service may not come up if the time is incorrect.
6. On RHEL operating system, It is recommended to have the “Firewall/SELinux – Linux” disabled since it may block some ports during installation.

7.Upgrading COM 3.1 using COM 3.1.1 installer

1. Download the COM 3.1.1 installer from the Avaya support site. Windows Installer for COM 3.1.1 is com-installer-3.1.1-20150127.084953-36.windows.exe. Linux Installer for COM 3.1 is com-installer-3.1.1-20150127.084953-36.linux.bin.
2. Start COM 3.1.1 installer and accept the license agreement.
3. Proceeding further will continue COM 3.1.1 installation. User is advised to go through the installation wizard.
4. A successful installation message will be displayed to the user at the end of the installation.

8.Upgrading COM 3.1 OVA using COM 3.1.1 installer

1. Download the COM 3.1.1 installer from the Avaya support site. Windows Installer for COM 3.1.1 will be like com-installer-3.1.1-20150127.084953-36.windows.exe. Linux Installer for COM 3.1 is com-installer-3.1.1-20150127.084953-36.linux.bin.
2. Start COM 3.1.1 installer and accept the license agreement.
3. Proceeding further will continue COM 3.1.1 installation. User is advised to go through the installation wizard.
4. A successful installation message will be displayed to the user at the end of the installation.

9.Supported Manual Upgrade Scenarios in COM 3.1.1

The following table shows how existing COM installations can be moved to COM 3.1.1.

Current installation	Upgrade Using Installer	Manual Data Migration	Procedure for Migration
COM 3.1 Running on Windows server 2008 R2 SP1 (standard/enterprise) OS	Yes, this can be upgraded	NA	NA
COM 3.1 Running on 64-bit RHEL (any supported flavor)	Yes, this can be upgraded	NA	Na
COM 3.0.1 and COM 3.0.2 Running on 32-bit Windows OS (any supported flavor)	No, this cannot be upgraded	Yes, COM data needs to be migrated	*See the manual migration section for windows*
COM 3.0.1 and COM 3.0.2 Running on 32-bit RHEL (any supported flavor)	No, this cannot be upgraded	Yes, COM data needs to be migrated	*See the manual migration section for RHEL*
COM 3.0.1 and COM 3.0.2 Running on Windows server 2008 R2 SP1(standard/enterprise) OS	Yes, COM 3.0.x running on 2008 R2 can be upgraded	Yes. If needed to install COM 3.1.1 on a new host.	*See the manual migration section for windows*
COM 3.0.1 and COM 3.0.2 Running on 64-bit RHEL v5.6/5.7	Yes, this can be upgraded	Yes. If needed to install COM 3.1.1 on a new host.	*See the manual migration section for RHEL*
COM 3.0.1 and COM 3.0.2 Running on 64-bit Windows other than Windows server 2008 R2 SP1(standard/enterprise edition)	No, this cannot be upgraded	Yes, COM data needs to be migrated	*See the manual migration section for windows*
COM 3.0.1 and COM 3.0.2 Running on 64-bit RHEL other than RHEL v5.6/5.7	No, this cannot be upgraded	Yes, COM data needs to be migrated	*See the manual migration section for RHEL*
COM 2.3[.x]	No, this cannot be upgrade	No, data migration is not supported	*N/A*
COM 3.1 OVA RHEL v5.7	Yes, this can be upgraded	NA	*See the manual migration section for RHEL*

9.1. Manual Data migration from existing COM 3.0.x installation

When the older version of COM (r3.01 and r3.0.2) exists on a server with 32-bit OS or on a 64-bit OS that is incompatible with COM 3.1.1 (e.g. 64-bit Windows Server R2 SP1 standard/enterprise or 64-bit RHEL 5.6/5.7), then there is a need to migrate the UCM/COM data from the older server to a new installation of COM 3.1.1. This section explains how this can be done.

The following scenarios are possible.

1) Moving to COM 3.1.1 from COM 3.0.x running on 32bit OS
2) Moving to COM 3.1.1 from COM 3.0.x running on 64bit OS incompatible with COM 3.1.

Following steps describe the workflow for migrating from older version of COM to COM 3.1.1.

Pre-requisite: Older version (release 3.0.x) of COM running as UCM Primary.

Steps for Windows servers:

1. Download the file `Migration_From_32Bit_UCM_To_SMGR-CS.zip` from the same Avaya Support page from which you downloaded COM 3.1.1 installer and unzip it. In its content you will find another zip file named - `ucm-to-smgr-migration-windows.zip`.
    a. Go through the **ReadMe** file in the main zip file you have downloaded, before proceeding further.
    b. Now unzip the file `ucm-to-smgr-migration-windows.zip`.
2. Back up the data on COM 3.0.x.
    a. Take back up on UCM by running the script ***backupDataMigration.bat.***
    b. Upon successful completion, it will generate a jar file (like 2013-11-06_13.06.jar) and a zip file (as JbossQuantumMigration.zip) in the backups folder of UCM (<UCM-dir>\backups\).
3. Install COM 3.1.1 on a 64-bit Windows 2008 R2 SP1 Standard/Enterprise.
4. **Obtain new COM 3.1.1 License and install the license**.
5. Now Copy the backup data jar file to backups folder in SMGR-CS (<smgr-dir>\backups\>) and zip file to the **<smgr-dir>\core\tmp** folder on windows.
6. To restore the data on SMGR-CS, run ***restoreDataMigration.bat*** present in COM 3.1.1 <smgr-dir>\bin.
7. Upon successful completion, login to SMGR-CS and verify if the app is functioning as expected and that the data has been restored from UCM. The default username is “admin” and default password is “admin123” (both without quotes).
8. This completes the data migration from COM 3.0.x on UCM Primary to COM 3.1.1 on SMGR-CS Primary.

Steps for RHEL servers:

1. Download the file `Migration_From_32Bit_UCM_To_SMGR-CS.zip` from the same Avaya Support page from which you downloaded COM 3.1.1 installer and unzip it. In its content you will find another zip file named - `ucm-to-smgr-migration-linux.zip`.
    a. Go through the **ReadMe** file in the main zip file you have downloaded, before proceeding further.
    b. Now unzip the file `ucm-to-smgr-migration-linux.zip`.
2. Please, follow the instructions in it to back up the data on COM 3.0.x.
    a. Take back up on UCM using ***backupDataMigration.sh***.
    b. Upon successful completion, it will generate a jar file (like 2013-11-06_13.06.jar) and a zip file(as JbossQuantumMigration.zip) in the backups folder of UCM (<ucm-dir>/backups/).
3. Install COM 3.1.1 on a 64-bit RHEL v5.6/v5.7 host.
4. **Obtain new COM 3.1.1 License and install the license**.
5. Now Copy the backup data jar file to backups folder in SMGR-CS (<smgr-dir>/backups/) and zip file to the /**tmp** folder.
6. To restore the data on SMGR-CS, run ***restoreDataMigration.sh*** present in COM 3.1.1 <smgr-dir>/bin.
7. Upon successful completion, login to SMGR-CS and verify if the app is functioning as expected and that the data has been restored from UCM. The default username is “admin” and default password is “admin123” (both without quotes).
8. This completes the data migration from COM 3.0.x on UCM Primary to COM 3.1.1 on SMGR-CS Primary.

10. Limitations and Known Issues

COM 3.1.1 has the following limitations and known issues.

10.1. Limitations

- No space character is allowed in the path name for the installation folder (pre-check exists in the installer) – a limitation inherited from JBoss 6.1.0
- Configuration Audit Tool (CAT) does not support ERS8k devices running in ACLI mode.

10.2. Device Issues

- wi01196119 : VSP7024XLS-sw version 10.2.1-ASCII Config File upload is failing
- wi01201152 : ERS5600-sw version 6.6.1 (Build 33) - Binary Config File Upload is failing
- wi01201144 : ERS5600-sw version 6.3.4 (Build 28) - ASCII Config File Download is failing
- wi01201150 : ERS5600-sw version 6.6.1 (Build 33) - ASCII Config File Download is failing
- wi01205342 : COM 3.1.1 - ERS 5K (6.3.4.029) - SNMPv3 - Facing error while reading devices
- wi01206257 : COM 3.1.1 - ERS 5K (6.6.1.033) - SNMPv3 - Facing error while reading devices
- wi01202812 : COM 3.1.1 Routing Manager - IPv4 - ARP - Add / Delete ARP entry Fails VSP7k 10.3.3

10.3. Known Issues

- Installation/Upgrade related:
  - COM installer requires the system language to be set to English (US).
  - Visual C++ 2010 and above versions should be uninstalled from the system to install Aura System Manager based COM 3.1.1. The required Visual C++ can be installed post the COM 3.1.1 installation.
- EDM Manager:
  - JDM (for sw versions of devices that are old and do not have EDM plugin) does not work with Java 7. If your browser has Java 7 plugins/add-ons installed, you need to disable it and use Java 6 plugins.
- Limitations/issues in COM support for VSP7000:
  - COM does not discover a VSP7k device which uses only Out-of-band management using the dedicated management port.
  - Inventory Manager actions give error (“noCreation” SNMP error) for ASCII config file upload/download for VSP7k. Inventory Manager binary config upload/download may require increasing the SNMP timeout in the Preferences to 10sec or more. (Applies to VSP7k sw 7.2.x and older).
- VSP7000 Device Limitations affecting COM functionality:

- SONMP packets are not sent on BEB-BCB ISIS links (even when device is SONMP enabled). Therefore, these links are not discovered by COM and to discover both devices, both of them need to be specified as seeds. “Dump Topology” does not show these links; but “Show Connections” do.
- TACACS settings and Web Password settings related SNMP MIBs are not supported in VSP7k. So these operations will result in “noCreation” SNMP error.

- MLT Manager related:
  - Removing last VLAN from an active MLT could cause loss of connectivity to the device. COM does not show any warning when this is attempted.
- Tools related:
  - CLI*Manager tool (a Java Webstart application), when first launched creates <OS login name>.ppk file in the specified “working directory”. But the tool expects this file to be in the following location –
    - Windows – Same directory from where CLI*Manager is launched (typically the Desktop)
    - Linux – In the /root/ directory.

    So, move the file <OS login name>.ppk to the above directory from the specified “working directory” and re-launch CLI*Manager.
  - If Firefox is your default browser, then for CLI*Manager to work, you need to set the browser proxy settings to “Use System Proxy settings”.
  - TFTP Server tool – the “Root directory” and “Log file name” specified in the tool’s preferences do not indicate where they are located on the server. The location is dependent on the OS, and are relative to the following path –
    - Windows – they are relative to <JBOSS_HOME>/bin/
    - Linux – they are relative to JBOSS/bin.
  - CAT Tool opens a blank page from IE9.x and IE10.x with a JavaScript error. It works fine on IE8 and also in all supported versions of FireFox browser.
- Browser support related:
  - License installation does not work with IE browsers when the absolute path to the license file to be installed contains a directory whose name has a dot (“.”) in it (e.g. C:\licenses\COM3.1.1\myLicense.lic).
- Virtual Machine related:
  - TFTP data transfer does not work properly (times out) when the VNIC used by the Virtual Machine is of type VMXNET3. It is recommended to use E1000 type of VNIC for the Virtual Machine.

11. Miscellaneous Information

11.1. General Info

- **Default User ID and Password** for accessing newly installed Aura System Manager based COM is **admin / admin123**
- After installation/upgrade completes successfully as well as after a restart of the COM application, it takes a few minutes (about 5 minutes) for the application to be available for client access.

11.2. Recommendations for Improved Network Discovery

Following set of procedures to be followed on modular devices (ERS 8k series, VSP 9k series, VSP 4k series and VSP 8 k series) to force/prioritize a device to always send the configured management IP Address in the SONMP Discovery packets. This will result in the auto topology table on its neighbor devices to contain the management IP Address of the device instead of the IP Address of the interface of the device that connects to the neighbor.

This helps COM network discovery to clearly identify the end devices of each link, even when the interface IP addresses are duplicated in the network, resulting in significant reduction in the number of logical hubs (physically non-existing) being displayed in COM topology.

11.2.1. Procedure to force management IP:

ERS 8600/8800 (ACLI mode):

Using ACLI user interface, execute the following commands in the config mode:

```
(config)# sys force-topology-ip-flag enable
(config)# show sys setting
        …
        ForceTopologyIpFlag : true
        clipId-topology-ip: X
        …
```

(If clipId-topology-ip is not 0, then find out the IP address for the CLIP id X using 'show ip interface' command and run the following command)

```
(config)# no ip address x.x.x.x/x
(config)# show sys setting
        …
        ForceTopologyIpFlag : true
        clipId-topology-ip: 0
        …
```

ERS 8600/8800 (CLI mode):

Using CLI user interface, execute the following commands in the config mode:

```
(config)# sys set force-topology-ip-flag true
(config)# show sys set-topology-ip
      #------  TOPOLOGY-CLIP-IP  ------#
      clip-ip Set as Topology-ip : <ipaddr>

(If a clip-ip has been set, then use the command below to delete that clip)
(config)# ip circuitless-ip-int <id> delete <ipaddr>
(config)# show sys set-topology-ip
      #------  TOPOLOGY-CLIP-IP  ------#
```

VSP 9000, VSP 8000 and VSP 4000:

Using ACLI user interface, execute the following commands in the config mode:

```
(config)# sys force-topology-ip-flag enable
(config)# default sys clipId-topology-ip
(config)# show sys setting
      …
      ForceTopologyIpFlag : true
      clipId-topology-ip : 0
      …
```

11.3. Workaround for script running slowly - browser issue

COM uses java script technology which executes scripts on the client browser. However, for large configurations, the script may take longer to execute and may be seen by the browser as a loop that may need to be terminated by the user. This issue is more pronounced in IE. If such an issue is encountered, you will see pop-ups asking whether you want to terminate the script. You can select No (In IE) and Continue (in FF) to ignore this pop-up or you may permanently change the time after which the pop-up is seen (or disable it completely). To change your browser settings, use the following instructions:

For Firefox:

Type about:config in the address bar and filter for the string dom.max_script_run_time. The default setting is 20 (seconds), add some more time, raise it to 40 for instance.

For Internet Explorer:

Using a Registry Editor such as Regedt32.exe, open this key:
HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Styles

Note If the Styles key is not present; create a new key that is called Styles.
Create a new DWORD value called "MaxScriptStatements" under this key and set the value to the desired number of script statements. If you are unsure of what value you need to set this to, you can set it to a DWORD value of 0xFFFFFFFF to completely avoid the dialog.

By default the key doesn't exist. If the key has not been added, the default threshold limit for the time-out dialog box is 5,000,000 statements for Internet Explorer 4 and later.

More information is available at http://support.microsoft.com/kb/175500

11.4. General Recommendations

To circumvent some of the known issues, the following recommendations should be adhered to:

- For using the email feature in COM (including BCM) or to test email feature through the test button, the Firewall and Antivirus should have a rule to allow COM to send email. If email is blocked on the COM server, the user will see an error “Message Exception” and the email will not be sent.
- It is recommended to enable SONMP protocol on devices even if LLDP is enabled – since some types of devices do not support LLDP currently, they will not be discovered using seeds which have only LLDP enabled.
- It is recommended that you do not import Device Inventory xml file from an older versions of COM (COM 2.3, 2.3.x) into COM 3.1.1. Device inventory xml exported in COM 3.0.x is compatible with COM 3.1.1.
- IE9 and IE10 browser requires the setting of Tools/internet options/advanced – ‘Do not save encrypted pages to disk’ to be un-checked in-order for the JDM tool to be launched correctly.
- BCM operations such as CUG might require pagination to be disabled based on the user script. In case of ERS 35xx/4xxx/5xxx, check the terminal length on the device using CLI. Set terminal length to 0. In case of ERS 83xx/86xx/88xx, check the CLI settings on the device and make sure “more” is set to false.
- For the software version upgrade operations on ERS 8600 v7.2.14, Release Notes recommends to always keep DLD files in Flash. Kindly refer the following document https://support.avaya.com/css/P8/documents/100182234 on Avaya support site https://support.avaya.com/.
- ERS 8600 SVU - L2 C issue handling – customer is recommended to handle manual upgrade in case of L2C issue in 8692 cpu dual power supply.

12. List of COM documents

Following is a list of documents available for Configuration and Orchestration Manager (COM) Release 3.1.1. Note that these documents remain same as in COM 3.1.

1. Release Notes (this document) - Avaya Configuration and Orchestration Manager Release 3.1.1
2. NN47226-300 Issue 07.01, Avaya Configuration and Orchestration Manager Installation
3. NN47226-100 Issue 07.01, Avaya Configuration and Orchestration Manager Fundamentals
4. NN47226-600 Issue 08.01, Avaya Configuration and Orchestration Manager Administration
5. NN48021-100 Issue 05.01, Avaya Bulk Configuration Manager Fundamentals
6. NN48014-100 Issue 05.01, System Manager Common Services Fundamentals

These documents are available at Avaya Support site (support.avaya.com).

Appendix: Device Support (comprehensive list)

Following devices are officially supported by COM 3.1.1

Device	Software release
Virtual Services Platform 4000	3.0, 3.0.1, 3.1, **4.0**, **4.0.40**, **4.0.50**, **4.1**(partial support)
Virtual Services Platform 8200	4.0, **4.0.1.1**, **4.1**(partial support)
Virtual Services Platform 9000	3.0, 3.1, 3.2, 3.3, 3.4, **3.4.5.0**
Ethernet Routing Switch 8600 & 8800 including the following hardware: 8681XLW module, 8681XLR module, 8616GTE module, 8672ATME MDA, 8608GBM module, 8608GTM module, 8632TXM module, 8648TXM module, 8672ATMM module, 8683POSM module.	4.0, 4.1, 5.0, 5.1, 7.0, 7.1, 7.1.3, 7.1.5, 7.2, 7.2.10, **7.2.13**, **7.2.14.x**, **7.2.15**
Virtual Services Platform 7000	10.1, 10.2, 10.2.1, 10.3, **10.3.1**, **10.3.2**, **10.3.3**
Ethernet Routing Switch 55xx/56xx	5.1, 6.0, 6.1, 6.2, 6.3, 6.6, **6.3.4**, **6.6.1**
Ethernet Routing Switch 45xx/48xx	5.2 , 5.3, 5.4, 5.5, 5.6, 5.6.1, 5.6.2, 5.7, **5.8**
Ethernet Routing Switch 35xx	5.0, 5.0.1, 5.0.2, 5.1, 5.1.1, 5.2
Ethernet Routing Switch 25xx	4.1.x, 4.2, 4.3, 4.4
Ethernet Routing Switch 16xx	2.1.5.x, 2.1.6.x
WLAN	23xx, AP 23xx
WLAN WC8100, AP8120	1.0, 1.1, 1.2
Belden	6.0.2

NOTE:

1. Device version(s) highlighted in green color are the new device releases which are supported as part of COM 3.1.1 release.

2. “partial support” implies device discovery, topology display and installation and launching of EDM plugin are the only features supported.

Following device support is available with COM 3.1.1 but the test coverage on these devices isn't complete (should work but lacks official support)

Device	Software release
Ethernet Routing Switch 8600, including the following hardware: 8681XLW module, 8681XLR module, 8616GTE module, 8672ATME MDA, 8608GBM module, 8608GTM module, 8632TXM module, 8648TXM module, 8672ATMM module, 8683POSM module.	3.0, 3.0.x, 3.1.x, 3.2.0, 3.2.0.2, 3.2.1.0, 3.2.2, 3.3, 3.5, 3.7
Ethernet Routing Switch 8600 Web Switching Module	WebOS 9.x, 10.0.x
Ethernet Routing Switch 8100	2.0, 2.0.1.1, 3.1.x, 3.2.0, 3.2.0.2, 3.2.1.0, 3.2.2, 3.3
Ethernet Routing Switch 8300	2.0, 2.1, 2.2, 2.2.8, 2.3, 3.0, 4.0, 4.1, 4.2
Passport 1050/1150/1 200/1250	2.0.5.6, 2.0.5.7, 2.0.7.2, 2.0.7.3, 2.0.7.4, 2.1.0, 2.1.3
Ethernet Routing Switch 1424T	2.1
Ethernet Routing Switch 1612G, 1624G, 1648T	1.0, 1.2, 2.1
BayStack 350/410/ 450	3.0, 3.1, 4.0, 4.1, 4.2, 4.3, 4.4
Business Policy Switch 2000	1.0, 1.0.1, 1.1, 1.2, 2.x, 3.0, 3.1
BayStack 380-24 T	2.0, 3.0
BayStack 420	1.0, 1.0.2, 1.1, 1.1.1, 1.1.2,1.1.3, 3.0, 3.1
Ethernet Switch 460	2.3, 3.0, 3.1, 3.5, 3.6, 3.7
Ethernet Switch 470-24 T	3.0, 3.0, 3.1, 3.5, 3.6, 3.7
Ethernet Switch 470-48 T	2.1.0 (standalone only), 2.2.0, 2.2.1 (stack also supported), 3.0, 3.0, 3.1, 3.5, 3.6, 3.7
Ethernet Switch 425-24T	2.0, 3.0, 3.0, 3.1, 3.5, 3.6
Ethernet Switch 425-48T	3.1, 3.5, 3.6
Ethernet Routing Switch 5510, 5520	3.0, 3.0.0.1, 4.0, 4.1, 4.2, 4.3, 5.0
Ethernet Routing Switch 5530	4.2, 4.3, 5.0
Ethernet Routing Switch 3510	4.0
Ethernet Routing Switch 45xx	5.0
Ethernet Routing Switch 25xx	4.0, 4.1.x, 4.2
Alteon 2208, 2216, 2224, 2424, 2424 SSL, 3408	AOS 21.0
OPTera Metro 1200/1400/1450	1.0, 1.2, 1.3
WLAN 2200 AP	1.3