



# **AVAYA CONFIGURATION AND ORCHESTRATION MANAGER**

Release 3.1.2

## Release Notes

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# 1. Summary

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**COM 3.1.2 Release Date:** July 27<sup>th</sup>, 2015.

**Purpose:** The Configuration & Orchestration Manager (COM) 3.1.2 Release Notes provide the following information:

- General release information including New Features, Changes/Bug fixes in COM 3.1.2
- Supported operating systems, hardware requirements and browser clients
- Known issues and limitations

## 2. Important Notes before Installing this Release

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### *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 3.1.2 can be installed only as a Primary SMGR-CS server.
- Installer supports fresh installation of COM 3.1.2, as well as upgrade from COM 3.0.1, COM 3.0.2, COM 3.1 and COM 3.1.1.
- Manual data migration is supported from existing installations of COM 3.0.1 and COM 3.0.2.
- COM 3.1.2 does not support co-residency with VPFM.
- Virtualization Provisioning Service (VPS) version v1.1 cannot be installed afresh on COM 3.1.2. The existing system(s) where COM R3.1.1 and VPS R1.1 are installed, COM 3.1.1 once upgraded to COM R3.1.2, 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 R3.1.2.
- Older versions of VPS are not supported on COM 3.1.2.
- COM 3.1[x] license will work for COM 3.1.2. Upgrade or migration from COM 3.0.x to 3.1.2 would require new license.
- COM 3.1 OVA upgrade to COM 3.1.2 can be done by running COM 3.1.2 installer

### *General Instructions:*

- Please read this Release Notes completely before installing COM 3.1.2.
- 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

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## 3.1. New in this release

### ❖ Device support

- Full Support for –
  - VSP Operating System Software (VOSS) –
    - VSP 4850 v4.1, v4.2, v4.2.1 (GTS, GTS-PWR+, GTS DC models) and VSP 4450 v4.1, v4.2, v4.2.1 (SX-PWR+, GTX-HT-PWR+, GSX-DC, GSX-PWR+ models)
    - VSP 7254 v4.2.1 (XSQ and XTQ models)
    - VSP 8284 v4.2.1 (XSQ model)
    - VSP 8404 v4.2, v4.2.1 (QQ model) and VSP 8418 (XSQ model)
  - VSP 9000 v4.0.1
  - ERS 5928 v7.0 (GTS, GTS-PWR+) and ERS 5952 v7.0 (GTS, GTS-PWR+)
  - ERS 4800 v5.9
  
- Partial (Discovery and EDM Plugin) support for –
  - VSP 7000 v10.4

### ❖ New Features

#### 1. Port Channelization

The Virtual Service Platform (VSP) Operating System Software (VOSS) devices VSP 7200, VSP 8200, VSP 8400 supports channelization of one 40G port into four 10G ports for any or all 40G ports.

The following card types of the VOSS devices support the Port Channelization feature:

- VSP 7254 - 7254XSQ, 7254XTQ
- VSP 8284 - 8284XSQ
- VSP 8400 - 8418XSQ, 8408QQ

Channelized port operation shall not be adversely affected when the same card type is hot swapped when one or more 40G ports on that card are channelized. Swapping a different card results in the configuration for that slot being lost, so any channelized ports will need to be reconfigured.

**Non-channelized:** When a 40G port is not channelized enabled, the port will use the existing port format “slot/port”, for example 1/1 (the first 40G port), 1/2 (for the second 40G port), 1/3 ...1/6 in input/output

**Channelized:** When a 40G port (1/1) is channelized enabled, the 40G port will become 4 10G ports. These 4 10G ports will use format “slot/port/sub-port”, for example 1/1/1, 1/1/2, 1/1/3, 1/1/4 in input/output. The rest of the ports in the same slot which are not channelized enabled will still use “slot/port” format, like 1/2, 1/3...

In the below “Port Members”, the channelized port 2 is displayed as: 2/1, 2/2, 2/3 and 2/4.

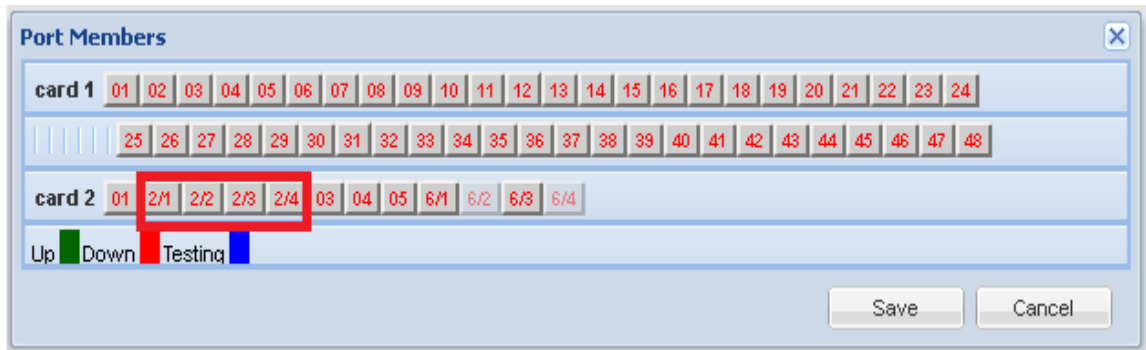


Figure 1 – Port Members

Once a channelized port is selected, the display of the port will be as below. Here's a snapshot of a VLAN under VLAN Manager (see the PortMembers field):

Device	SysName	Id	Name	Type	PortMembers	MSTPInstance	VrfId	HighPriority	
1	10.133.130.92	VSP-8404	133	V-133	byPort	2/17	msti-14	0	-
2	10.133.136.133	SF-Fiber	133	V-133	byPort	2/2/2	msti-14	0	-

Figure 2 – Vlan with *PortMembers* field showing channelized port

*NOTE – Currently, enable and disable of port channelization on the device can be done only through Enterprise Device Manager (EDM) (Off-box/On-box). The procedure is shown below.*

Launch the “Element Manager” from COM or go to EDM of the device. To enable the channelization for port 2/1, R-Click on the port and select edit general for port 2/1.

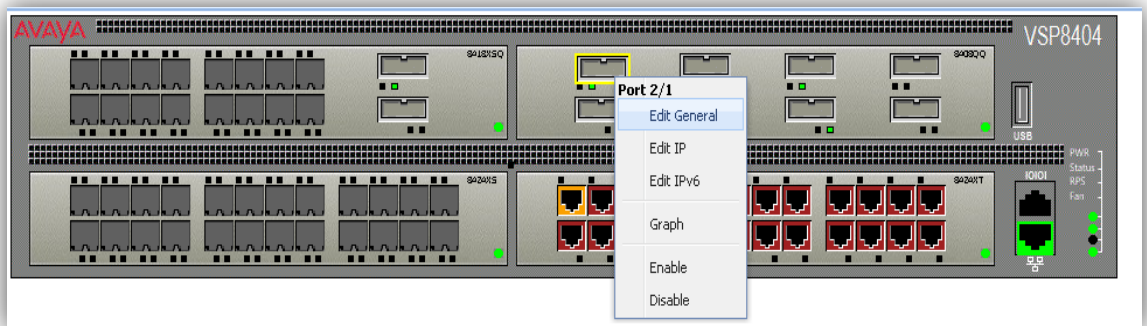


Figure 3 – Device Physical View

Under Channelization tab, Enable “Admin mode” using the check box provided.

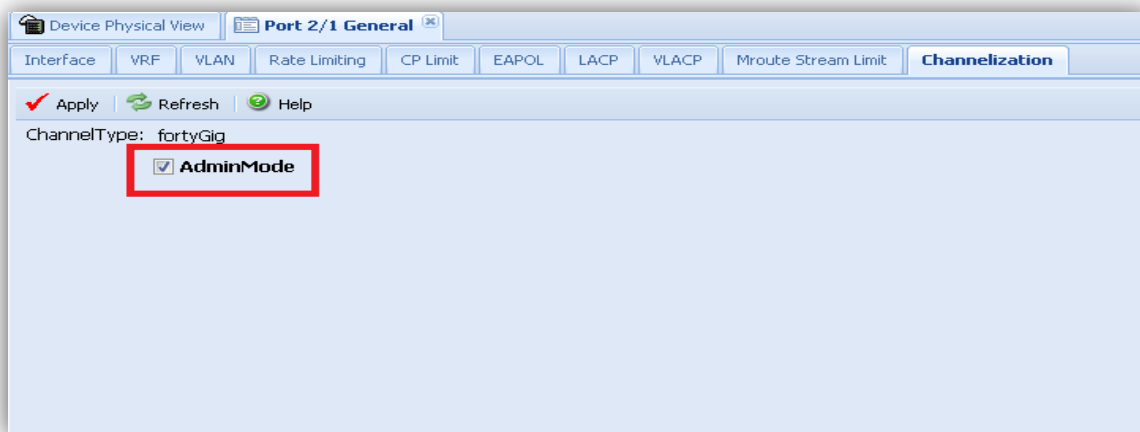


Figure 4 – Channelization Enable.

Click on Apply after selecting “AdminMode”. This will internally enable channelization on port 2/1.

For more information on Port Channelization, please refer the VOSS v4.2.1 release notes *Release Notes for VSP Operating System Software* available on Avaya support site. <https://downloads.avaya.com/css/P8/documents/101011923>.

## 2. Virtual Inter-Switch Trunk (vIST)

In traditional SMLT, a dedicated MLT is created for IST which carries the IST control traffic and also data traffic during the smlt failover. So if the dedicated mlt breaks, then there is no way to communicate between the ist peers which causes the traffic loss. With virtual IST, the IST tunnel is up as long as there is SPBM connectivity between the IST peers. Switch redundancy is provided as long as there is SPBM connectivity between the IST peers.

The feature is supported under MLT Manager and SMLT Wizard. The feature support is intended for VSP 4k 4.1, VSP 84xx 4.2, VSP 82xx 4.0.1, VSP 72xx 4.2 and above device family.

vIST will interoperate between the VSP4000 and VSP8200 so a 4K and 8K can be IST peers as long as both Software loads support the features

Following snap shots will show vIST options under MLT Manager and SMLT Wizard:



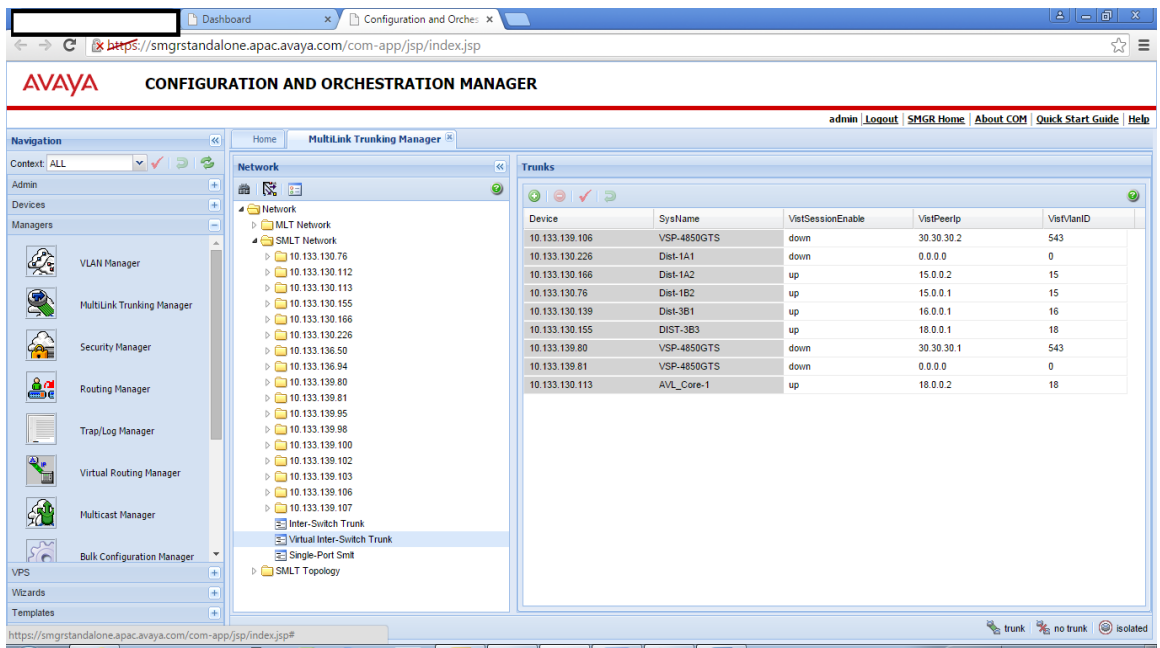


Figure 5 – MLT Manager

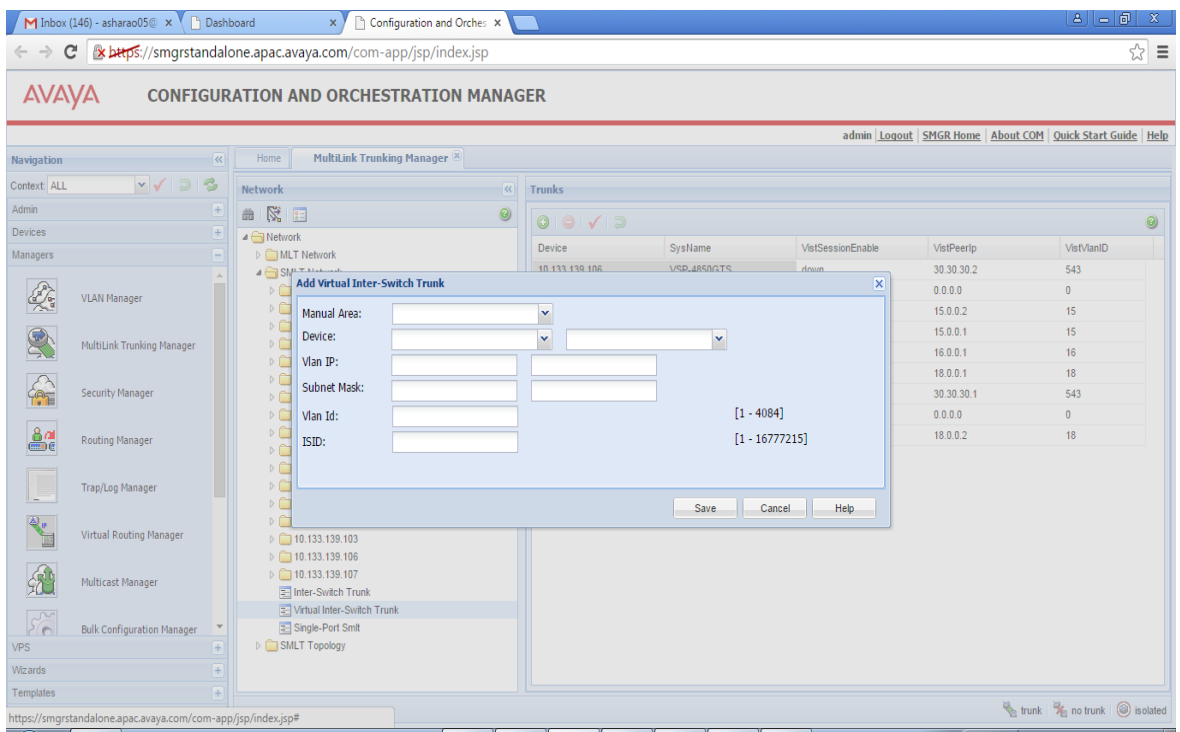


Figure 6 – Add vIST

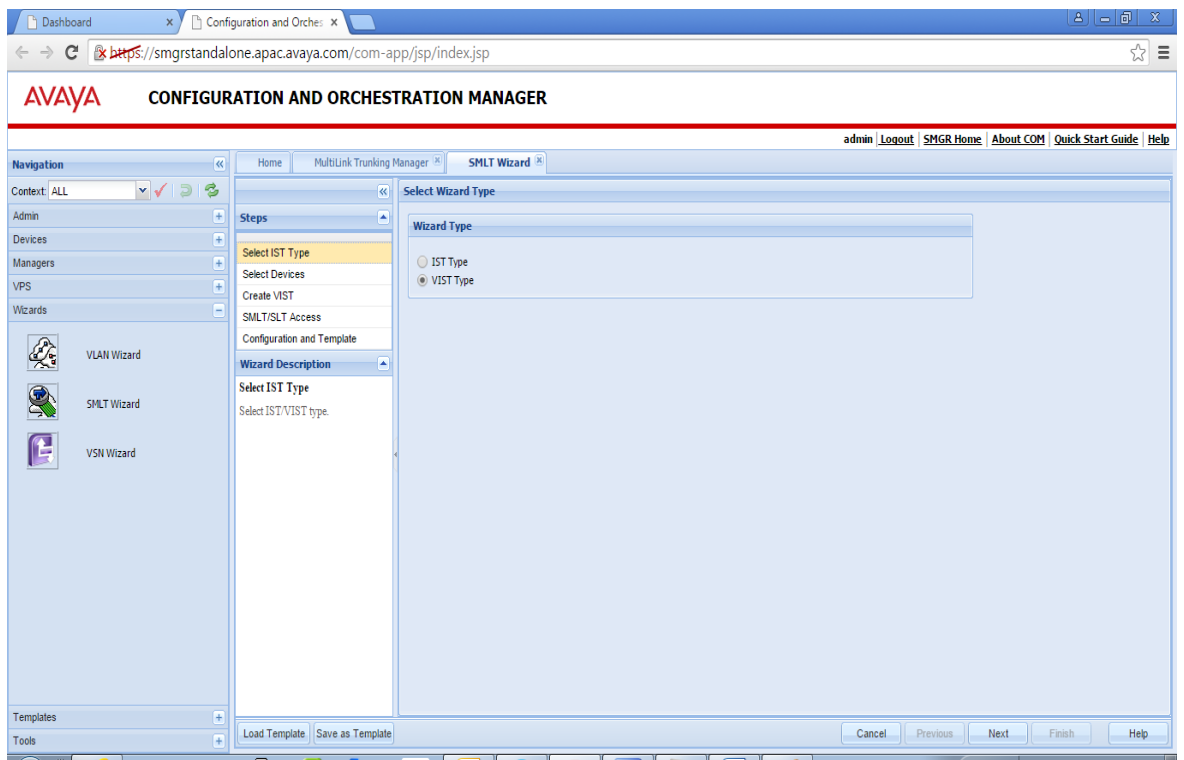


Figure 7 –vIST Wizard Screen

## 3.2. Issues Resolved in this release

Following bugs have been fixed in COM 3.1.2 release

WI/SR id	Description
COM-650: 1-6140701682	COM 3.1/BCM ERS 3549 does now show in BCM
COM-670	COM 3.1.1 unable to backup, upgrade, or run script against 7K when ssh is used and banner disabled
COM-751: 1-6577361881	COM: Links between the VSP4ks and the edge devices connected to VSP4ks are not showing in topology
COM-657	COM 3.1.1 – LLDP discovery fails discovering links in between Avaya and HP switches (Requested the customers to raise a GRIP for this support)
COM-660 : 1-6264685781	COM3.1-unable to import signed cert
COM-574 : 1-5861571338	COM 3.1 unable to generate CSR Request
1-6554865774	COM Installation Issues on Linux Platform on customer bench
COM-782	COM 3.1 unable to install on a RH5.7 CND and JBOSS fail postinstall (COM doesn't support installation on a NAS)

## 4. Server and Client Requirements

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### 4.1. Server Requirements

The server requirements are same as COM 3.1.1 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.
- Virtual Machine Host: ESXi 5.0 and up to v5.5 is required. Support for ESXi 4.x is discontinued.

## 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 <i>(Physical RAM on the m/c also needs to be increased accordingly)</i>

The default heap size for COM 3.1.2 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)	v38

## 5. Licensing

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COM 3.1[x] license will work for COM 3.1.2. New license is required only when upgrading/migrating from COM 3.0.1 and COM 3.0.2 to COM 3.1.2.

## 6. Pre-requisites for the COM 3.1.2 installation/upgradation

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1. It is recommended to have the IP & FQDN entries in C:\Windows\System32\drivers\etc 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 C:\Windows\System32\drivers\etc 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” 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/COM 3.1.1 using COM 3.1.2 installer

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1. Download the COM 3.1.2 installer from the Avaya support site. Windows Installer for COM 3.1.2 is com-installer-3.1.2-20150724.021644-17.windows.exe. Linux Installer for COM 3.1.2 is com-installer-3.1.2-20150724.021644-17.linux.bin.
2. Start COM 3.1.2 installer and accept the license agreement.
3. Proceeding further will continue COM 3.1.2 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 3.1.2 installer

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1. Download the COM 3.1.2 installer from the Avaya support site. Windows Installer for COM 3.1.2 will be like com-installer-3.1.2-20150724.021644-17.windows.exe. Linux Installer for COM 3.1 is com-installer-3.1.2-20150724.021644-17.linux.bin.
2. Start COM 3.1.2 installer and accept the license agreement.
3. Proceeding further will continue COM 3.1.2 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

## 3.1.2

The following table shows how existing COM installations can be moved to COM 3.1.2.

Current installation	Upgrade Using Installer	Manual Data Migration	Procedure for Migration
<b>COM 3.1.1 Running on</b> Windows server 2008 R2 SP1 (standard/enterprise) OS	Yes, this can be upgraded	NA	NA
<b>COM 3.1.1 Running on</b> 64-bit RHEL (any supported flavor)	Yes, this can be upgraded	NA	Na
<b>COM 3.1 Running on</b> Windows server 2008 R2 SP1 (standard/enterprise) OS	Yes, this can be upgraded	NA	NA
<b>COM 3.1 Running on</b> 64-bit RHEL (any supported flavor)	Yes, this can be upgraded	NA	Na
<b>COM 3.0.1 and COM 3.0.2 Running on</b> 32-bit Windows OS (any supported flavor)	No, this cannot be upgraded	Yes, COM data needs to be migrated	<a href="#">See the manual migration section for windows</a>
<b>COM 3.0.1 and COM 3.0.2 Running on</b> 32-bit RHEL (any supported flavor)	No, this cannot be upgraded	Yes, COM data needs to be migrated	<a href="#">See the manual migration section for RHEL</a>
<b>COM 3.0.1 and COM 3.0.2 Running on</b> 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 3.1.2 on a new host.	<a href="#">See the manual migration section for windows</a>
<b>COM 3.0.1 and COM 3.0.2 Running on 64-bit</b> RHEL v5.6/5.7	Yes, this can be upgraded	Yes. If needed to install COM 3.1.2 on a new host.	<a href="#">See the manual migration section for RHEL</a>
<b>COM 3.0.1 and COM 3.0.2 Running on 64-bit</b> Windows other than Windows server 2008 R2 SP1(standard/enterprise edition)	No, this cannot be upgraded	Yes, COM data needs to be migrated	<a href="#">See the manual migration section for windows</a>
<b>COM 3.0.1 and COM 3.0.2 Running on 64-bit</b> RHEL other than RHEL v5.6/5.7	No, this cannot be upgraded	Yes, COM data needs to be migrated	<a href="#">See the manual migration section for RHEL</a>
<b>COM 2.3[x]</b>	No, this cannot be upgraded	No, data migration is not supported	N/A
<b>COM 3.1 OVA RHEL v5.7</b>	Yes, this can be upgraded	NA	<a href="#">See the manual migration section for RHEL</a>

## 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 3.1.2 (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 3.1.2. This section explains how this can be done.

The following scenarios are possible.

- 1) Moving to COM 3.1.2 from COM 3.0.x running on 32bit OS
- 2) Moving to COM 3.1.2 from COM 3.0.x running on 64bit OS incompatible with COM 3.1.2.

Following steps describe the workflow for migrating from older version of COM to COM 3.1.2.

**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 3.1.2 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 3.1.2 on a 64-bit Windows 2008 R2 SP1 Standard/Enterprise.
4. **Obtain new COM 3.1.2 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 3.1.2 <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 3.1.2 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 3.1.2 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 3.1.2 on a 64-bit RHEL v5.6/v5.7 host.
4. **Obtain new COM 3.1.2 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 3.1.2 `<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 3.1.2 on SMGR-CS Primary.

# 10. Limitations and Known Issues

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COM 3.1.2 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.
- Port Channelization feature on a device can be enabled/disabled only through Enterprise Device Manager (EDM) (Off-box/On-box).

## 10.2. Device Issues

- wi0122938 - VSP9k v4.0.1 - Parameters entered for the following fields NextHopVRFID, Enable, Status, RouteMetric, ifindex, routepreference, LocalNexthop are not shown in routing manager.
- wi01220614 - VSP 7000 v10.4 - Device is shown as Unreachable when IP routing is enabled.
- wi01229767 - VOSS v4.2.1 has a restriction to use "Keyboard-interactive authentication" for SSH login mode

## 10.3. Known Issues

- Installation/Upgrade:
  - 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 3.1.2. The required Visual C++ can be installed post the COM 3.1.2 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:
  - 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.
- VLAN Manager:
  - Adding more than one 40G port to a VLAN throws error saying “*SNMP Operation failed. Error index : error 13319*”. The error id transforms to “*portNotPresent*”, “*Port is not present*”.
  - VLAN Manager discovery systematically hangs.
- Bulk Configuration Manager:
  - On VOSS software version 4.2.1.0, “*keyboard-interactive authentication*” restriction has been introduced which causes BCM operations on SSH to fail with error “*Could not get a device connection; null telnet preferences*”. Hence it is recommended to use Telnet credentials for the devices on software version 4.2.1.0, if BCM operations are needed.
- Tools:
  - 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:
  - 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\COM3.1.2\myLicense.lic).
- Virtual Machine:
  - 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

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## 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. 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 3.1.2. Device inventory xml exported in COM 3.0.x is compatible with COM 3.1.2.
- 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.
- It is recommended not have those 3<sup>rd</sup> party software(s) on the system where COM is intended to install as they might block LDAP, Postgres and JBOSS ports required for COM functioning.
- Workaround for *COM-614: 1-5911375022: wi01200073: COM 3.1 - VLAN Discovery systematically hangs*. It is observed that sometimes VLAN Manager discovery is slow or sometimes gets hung or sometimes fails with time-out. Follow below steps to overcome the mentioned issues:
  - Backup \$SMGR\_HOME/core/JBoss/6.1.0/jboss-as/server/avmgmt/data
  - Clean up \$SMGR\_HOME/core/JBoss/6.1.0/jboss-as/server/avmgmt/data directory contents
  - Clean up \$SMGR\_HOME/core/JBoss/6.1.0/jboss-as/server/avmgmt/tmp directory contents
  - Restart the Jboss server
  - Initiate full network discovery again and wait till required devices are discovered
  - Start the Vlan Manager discovery again

(Usually \$SMGR\_HOME will be C:\Avaya\smgr\core\JBoss\6.1.0\jboss-as\server\avmgmt\data under WINDOWS & /opt/avaya/smgr/core/JBoss/6.1.0/jboss-as/server/avmgmt/data under LINUX)

## 11.3. Install/Un-install Info

- On Windows operating system, post un-installation of COM service, if user is asked to restart the system, it is recommended to follow this to avoid any installation issues further.
- On Linux operating system, it is recommended to not to use the same terminal (which was used previously for un-install of COM service) for installation.

## 12. List of COM documents

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Following is a list of documents available for Configuration and Orchestration Manager (COM) Release 3.1.2. Note that these documents remain same as in COM 3.1.1.

1. Release Notes (this document) - Avaya Configuration and Orchestration Manager Release 3.1.2
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](http://support.avaya.com)).

# Appendix: Device Support (comprehensive list)

Following devices are officially supported by COM 3.1.2

Device	Software release
Virtual Services Platform 4000	3.0, 3.0.1, 3.1, 4.0, 4.0.40, 4.0.50, <b>4.1, 4.2, 4.2.1</b>
Virtual Services Platform 7200	<b>4.2.1</b>
Virtual Services Platform 8000	4.0, 4.0.1.1, <b>4.1, 4.2, 4.2.1</b>
Virtual Services Platform 9000	3.0, 3.1, 3.2, 3.3, 3.4, 3.4.5.0, <b>4.0.1</b>
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, <b>10.4(Partial Support)</b>
Ethernet Routing Switch 55xx/56xx	5.1, 6.0, 6.1, 6.2, 6.3, 6.6, 6.3.4, 6.6.1
ERS 5900	<b>7.0</b>
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, <b>5.9</b>
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 3.1.2 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 3.1.2 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 1050/1150/1200/1250	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