



Avaya Fabric Orchestrator Release Notes

Release 1.0

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Virtualization

Each virtual appliance has its own ordering code. Note that each instance of a virtual appliance must be ordered separately. If the end-user customer or Business Partner wants to install two of the same type of virtual appliances, then two virtual appliances of that type must be ordered.

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Purpose

This document provides the following information about Avaya Fabric Orchestrator (AFO) release 1.0.

- General information about AFO
- Release distribution
- Supported Devices
- Known Problems and workarounds
- Operational Notes
- List of AFO documents
- Support contact information

Intended Audience

The primary audience for this document is anyone who is involved with deployment, administration, maintenance and troubleshooting activities of Avaya Fabric Orchestrator at a supported site. The audience includes, but is not limited to, implementation engineers, field technicians, business partners, solution providers, and customers. This document does not include optional or customized aspects of a configuration.

About Avaya Fabric Orchestrator

Avaya Fabric Orchestrator is a scalable, easily deployable integrated management solution providing ability for a network administrator to manage their network in a single web based application.

AFO is delivered as a rack mountable hardware appliance for easy deployment and configuration in less than an hour. All software necessary to use AFO is pre-packaged and configured for use once the initial deployment completes.

AFO provides a Redhat Enterprise Linux 7.1 based KVM hypervisor with all management functions running in various virtual machines on the KVM hypervisor.

Terminology

Term	Description
ADM	Appliance Device Manager
AFO	Avaya Fabric Orchestrator
Appliance	A single hardware server contains one or more virtual machines.
EDM	Enterprise Device Manager
SCP	Secure Copy
SSH	Secure Shell Protocol
Upgrade	The process of taking a product from one release to a higher release.
Migration	A migration consists of a specific subset of upgrades you perform when you move a customer from one product to another. Migration may also require the customer to obtain new hardware.
MSC	Management Server Console
SMGR	System Manager
KVM	Kernel-based Virtual Machine
VM	Virtual Machine

Avaya Fabric Orchestrator hardware and software requirements

There is no specific hardware (except for power cords) and software requirement for Avaya Fabric Orchestrator (AFO) for customers. AFO is shipped as a pre-configured hardware appliance. The appliance has all the required hardware and software for AFO to work properly.

Important

The Avaya Fabric Orchestrator appliance server does not ship with AC power cords. You can use any 100–240V IEC 60320 AC power cord with a C13 connector that meets the regulations for your geographic region and operating environment.

Avaya recommends one of the following AC power cords. Avaya material codes are as follows:

Material Code	Description
AA0020062E6	POWER CORD IEC C13 TO NEMA 5-15P NORTH AMERICA (2.5M 10A/125V) ERS3500 ERS4500 ERS5500 ERS5900_450W VSP7000 VSP8000 SECURE ROUTER POE_INJECTORS
AA0020063E6	POWER CORD IEC C13 TO BS1363 UK (2.5M 10A/250V) ERS3500 ERS4500 ERS5500 VSP7000 SECURE ROUTER POE_INJECTORS
AA0020064E6	POWER CORD IEC C13 TO CEE 7/17 EU (2.5M 10A/250V) ERS3500 ERS4500 ERS5500 VSP7000 SECURE ROUTER POE_INJECTORS
AA0020065E6	POWER CORD IEC C13 TO CEI23-16 ITALY (2.5M 10A/125V) ERS3500 ERS4500 ERS5500 ERS5900_450W VSP7000 VSP8000 SECURE ROUTER POE_INJECTORS
AA0020066E6	POWER CORD IEC C13 TO GB2099 CHINA (2.5M 10A/250V) ERS3500 ERS4500 ERS5500 VSP7000 SECURE ROUTER POE_INJECTORS
AA0020067E6	POWER CORD IEC C13 TO BS546 INDIA (2.5M 10A/250V) ERS3500 ERS4500 ERS5500 VSP7000 SECURE ROUTER POE_INJECTORS
AA0020068E6	POWER CORD IEC C13 TO AS 3112 AUSTRALIA (2.5M 10A/250V) ERS3500 ERS4500 ERS5500 VSP7000 SECURE ROUTER POE_INJECTORS
AA0020069E6	POWER CORD IEC C13 TO JIS 8303 JAPAN CNS-10917 TAIWAN (2.5M 12A/125V) ERS3500 ERS4500 ERS5500 VSP7000 SECURE ROUTER POE_INJECTORS

Other software requirements

- SCP software, such as WinSCP on the client machine
- An SSH client, such as puTTY on the client machine

Note: Client machine is where AFO is launched in a supported browser.

Device support

The following devices are supported in AFO release 1.0:

Device	Software Release
Virtual Services Platform 4000	3.0, 3.0.1, 3.1, 4.0, 4.0.40, 4.0.50, 4.1, 4.2, 4.2.1,5.0
Virtual Services Platform 7200	4.2.1,5.0
Virtual Services Platform 8000	4.0, 4.0.1.1, 4.1, 4.2, 4.2.1,5.0
Virtual Services Platform 9000	3.0, 3.1, 3.2, 3.3, 3.4, 3.4.5.0, 4.0.1
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, 10.4(partial support)
Ethernet Routing Switch 5500/5600	5.1, 6.0, 6.1, 6.2, 6.3, 6.6, 6.3.4, 6.6.1
Ethernet Routing Switch 5900	7.0
Ethernet Routing Switch 4500/4800	5.2 , 5.3, 5.4, 5.5, 5.6, 5.6.1, 5.6.2, 5.7, 5.8, 5.9
Ethernet Routing Switch 3500	5.0, 5.0.1, 5.0.2, 5.1, 5.1.1, 5.2
Ethernet Routing Switch 2500	4.1.x, 4.2, 4.3, 4.4
Ethernet Routing Switch 1600	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

Release distribution

Avaya Fabric Orchestrator release 1.0 is distributed as a hardware appliance.

Installation procedure

See *Getting started and locating the latest software and product release notes for Avaya Fabric Orchestrator* (NN48100-102) for getting started once you receive the appliance.

See *Deploying Avaya Fabric Orchestrator* (NN48100-101) for Avaya Fabric Orchestrator installation and configuration information.

Known problems and workarounds

The following table provides the details of known issues in this release and workarounds, if any.

Issue ID	Component	Problem	Workaround (if any)
FABRICMGR-1061	Deployment	Zero Touch Deployment is unable to use Delete and Backspace keys in the console during the customer side configuration	Press the <code>Enter</code> key. The app will re-prompt for input.
FABRICMGR-1813	Monitoring	AFO1.0 Config – Trap/Syslog Viewer: Highlight trap severity on topology is not available on viewer	
FABRICMGR-2070	Monitoring	NNC-5232 : Discovery abort takes more time after limit reach warning message	
FABRICMGR-2425	Monitoring	NNC-5450 - Two menu bar shows up when click on network -> Topology page	Logoff or refresh the browser page
FABRICMGR-2673	Monitoring	NNC-5615 Custom report (Event History) vertically cropped on export as pdf	Adjust the column width before printing
FABRICMGR-2839	Monitoring	NNC-5634 Multi-view table refresh doesn't update name when best name changed by other session	
FABRICMGR-2947	Configuration	AFO 1.0 : Port Scanner MLT issues (Incorrectly updated data during discovery)	
FABRICMGR-2965	Monitoring	NNC-5679 unable to edit the second subnet range in discovery page	Click the apply button after modify a seed or subnet in Limit to Subnets
FABRICMGR-2966	Monitoring	NNC-5680 there is a delay in displaying the "Disc Status summary" after displaying custom view	Click the refresh button in the discovery page to immediately display the Discovery Status Summary
FABRICMGR-3013	Monitoring	NNC-5622 - CS1k trap forwarding feature missing in Trap settings/AFO Monitoring Preferences	
FABRICMGR-3067	Configuration	Negative values displayed for port # in Network map tab. In reality that connection showed does not exists	
FABRICMGR-3069	Configuration	AFO1.0 - Learned mac address entry against a FE logical interface is displayed wrong	
FABRICMGR-3070	Configuration	AFO1.0 - mac-address is learnt on FA/Flex-uni interface the display is wrong and mac-address learnt on Tunnel interfaces in VSP8404 is shown as null	

Issue ID	Component	Problem	Workaround (if any)
FABRICMGR-3090	Configuration	Monitoring Discovery with Partial success handling in Configuration (Configuration topology data auto synch with Main discovery data is not happening when discovery is partial success)	Click Reload from the Network Map
FABRICMGR-3091	Configuration	Group Context view shows old context name when multiple times group context is changed	
FABRICMGR-3139	Monitoring	Network pages gives an error message after some time	Logoff and re-login to AFO
FABRICMGR-3162	Monitoring	NNC-5791: Multiple selection of Reports is not possible on Schedule Reports	Select one at a time
FABRICMGR-3166	Monitoring	NNC-5796 action console schedules didn't get restore	Re-apply the responses under Network -> Responses
FABRICMGR-3167	Monitoring	NNC-5797 Delete custom-monitoring functionality does not work properly	Remove by unchecking the devices in the Add element in family screen. Do not use the Delete button to remove devices from device family monitor.
FABRICMGR-3169	AFO Backup	Performing a backup during discovery might prevent further discovery happening from Monitoring	Abort the backup if monitoring discovery is in progress. Restart monitoring service on the Monitoring VM.

Operational notes

This section provides details of operational considerations to follow while using AFO.

AFO backup and restore

Do not perform a backup of AFO while a Network Discovery is in progress. Discovery status is visible from Network→Discovery tool bar. Abort the backup if monitoring discovery was in progress.

Performing a backup during discovery might prevent further discovery happening from Monitoring. To resolve this issue, you can restart monitoring service on the Monitoring VM.

- **Scheduled backup:**

By default, AFO backup has been scheduled to trigger at 22 05 on Sunday every week. Ensure that there is no discovery scheduled at this time. To change the schedule, you can update the file `/etc/crontab`. Update the following line with the required time you want to schedule the backup operation.

```
5 22 * * 0 root /bin/bash
/opt/avaya/smgr/backuprestore/backupRestoreAFO.sh --backup
```

Parameters (as per position):

1. minute (0 - 59)
2. hour (0 - 23)
3. day of month (1 - 31)
4. month (1 - 12)
5. day of week (0 - 6)



- **Restore of backup taken from AFO Beta1/Beta2:**

The older backup archives generated in AFO Beta1/Beta2 releases are password protected. This isn't the case in the AFO standard release. To use the older archives, you need to do the following.

1. Unzip the desired archive by providing the password when it prompts.
`unzip -o archive.zip -d <extractiondir>`
2. Re-zip the archive.
`zip -FSrj archive.zip <archivePath>`
3. Use the new archive to restore.

Dashboard and preferences

Perform the following to install AFO certificates on a client machine:

1. Login to Avaya Fabric Orchestrator in a supported browser (Internet Explorer 10.x, 11.x and Firefox 40.0 and above).
2. Click on **About** icon  on the quick access bar
3. Click on **Install AFO Certificates** icon  in the window.
4. Follow the instructions provided on the dialog box

Configuration

- **Reload** in Configuration Network Map synchronizes the configuration topology data from Monitoring (Network) Discovery
- **Device Software Management** related backed up files will be located under `/opt/avaya/afo/shared/config/`
- **File Inventory** related backed up files will be located under `/opt/avaya/afo/shared/config/FileInventory/`
- VSP 7000 device limitations affecting configuration functionality:
 - TACACS settings and Web Password settings related SNMP MIBs are not supported in VSP 7000 series switches. These operations result in a `noCreation` SNMP error.
- VSP 7000 configuration support limitations:
 - Inventory Manager actions can cause error (`noCreation` SNMP error) for ASCII config file upload/download for VSP 7000 series switches. Inventory Manager binary config upload/download may require increasing the SNMP timeout in the preferences to 10 sec or more. (Applies to VSP 7000 release 7.2.x and older).

VOSS device software management backup and restore

On VOSS software version 4.2 and 4.2.1.0, SCP is not supported by the devices. Device Software Management backup and restore operations on SSH fail with Error:
`/opt/avaya/afo/shared/config/BackupAndRestore/archive/<backup_directory_name>/config.cfg` (No such file or directory).

If Device Software Management operations are needed, Avaya recommends use of telnet credentials for the VOSS devices on software version 4.2 & 4.2.1.0.

Monitoring

1. A `Discovery Partially Successful` status means that a full discovery could not be performed due to license not being available or one of the discovery seeds not being reachable.
2. In the AFO main dashboard, the Avaya Nodes under Network Inventory Statistics dashlet includes: Networking devices and Avaya server, and phones.
3. Domain contexts are not supported in scheduled email actions with reports attached. Only AFO domain is supported.
4. A restart of the monitoring service is required after installing a new license

Virtualization

1. If there are changes to the device hardware (adding or removing devices from the network, adding or removing units from a stackable), you need to complete the following tasks:
 - a. Check if snmp is enabled on the new or existing ESX server and update the snmp credentials in AFO credential tab for ESX server. Below is the command to enable snmp.
 - `esxcli system snmp set -e yes`
 - `esxcli system snmp set -c public`
 - b. AFO network discovery must be executed. Once the AFO Network discovery is completed successfully, AFO Virtualization Inventory Audit and Hypervisor connectivity is auto triggered.
 - c. If new network devices are added to the network, then AFO Network discovery must be followed by a device reassignment (manage or unmanage) using AFO Virtualization Device Management.
2. AFO Virtualization Component does not support virtual machine configurations involving vApp.
3. AFO Virtualization supports the following options of Port Group VLAN IDs:
 - a. vSwitch Port group
 - 1-4094 — You can define a rule using the specific VLAN ID as the PortGroup VLAN ID for this port group.
 - b. dvSwitch Port group
 - VLAN — You can define a rule using the specific VLAN ID as the PortGroup VLAN ID for this port group
4. AFO Virtualization does not configure the network for EST and VGT mode settings. The network administrator must configure EST and VGT settings manually. If some of the VMs are designated to use EST mode, then the network administrator must manually configure the ports on both source and

destination switches.

5. You cannot directly export a AFO Virtualization report to an HTML format using the **export report** feature. However, you can save the report in a HTML format using the **Print Report** feature. For more information, see *Virtualization Configuration for Avaya Fabric Orchestrator* (NN48100-503).
6. See *Virtualization Configuration for Avaya Fabric Orchestrator* (NN48100-503) for information about the vCenter events that AFO Virtualization can manage.
7. AFO Virtualization blocks the network traffic for a VM when used in EST mode
8. If one of the uplink is down amongst the available, AFO Virtualization shows failed in Monitor Event for the particular VM transaction.
9. While configuring rules based on a port group, best practice is to consider the port group name along with the port group VLAN ID.
10. AFO Virtualization Hot Migrate of VM is not detected after HA-DRS as a result of Host shutdown or physical failure.

Tools

- CLI*Manager tool is a Java Webstart application. When first launched the application creates an <OS login name>.ppk file in the specified working directory. However, the CLI*Manager tool expects this file in the following location:
 - Windows Client– Same directory from where CLI*Manager is launched (typically the Desktop)
 - Linux Client– In the /root/ directory.

Workaround: Move the file <OS login name>.ppk to the above directory from the specified working directory and re-launch CLI*Manager.

Note: If Firefox is your default browser, you must configure the browser proxy settings to Use System Proxy settings for CLI*Manager to function.

Troubleshooting AFO

Trouble Description	Component	Remedy
I want to know the base URL for the Configuration Views.	Configuration	Navigate to Configuration > Network Table , and select a device and expand it. Move the cursor to Links tab. Base URL for Config views is displayed on the browser's status bar. OR You can right-click on any configuration view panel and view the Frame Info which shows the URL.
If you suspect that Monitoring Discovered topology and Configuration Network Map/Table are not in sync.	Configuration	Use the Reload button on the Network Map toolbar to synchronize Configuration Network Map or Table with the topology discovered in Monitoring Discovery.
How do I collect logs from AFO server on regular basis?	Log Harvesting	<ul style="list-style-type: none"> ▶ Log harvesting can be used to collect log files from AFO host automatically on a regular basis. Unlike real time log forwarding it is independent of format of logs. Overall advantages of this Log Harvesting are: <ul style="list-style-type: none"> – Log archives are automatically saved outside of AFO server which can then be used for various audit and compliance purposed – Easy debugging – Scaling – Log format independent approach – Enhancing overall performance ▶ Avaya suggest to configure log harvesting to run at regular intervals ▶ Refer to AFO documentation to understand more about Log Harvesting.
How do I create an archive of all the logs in AFO server which can them be sent to Avaya for troubleshooting?	One-click Log Collection	<ul style="list-style-type: none"> ▶ Create a log archive of the entire AFO appliance containing logs of services and 3rd party tools. ▶ Use this utility to collect logs whenever there is an issue encountered in AFO appliance. This log archive is extremely valuable for Avaya support personnel for troubleshooting issues on your system. ▶ Procedure <ul style="list-style-type: none"> – SSH to Management Server Console (MSC) VM as admin user – Switch to root user: <code>su - root</code> – Execute the command: <code>/opt/avaya/afo/infra/OneClickLogCollect.sh</code> <p>The logs zip files are stored in: <code>/opt/avaya/afo/shared/commonstorage/OneClickLogCollection/</code></p>

Trouble Description	Component	Remedy
Troubleshooting one of more applications not responding	General	<ol style="list-style-type: none"> 1. Login to MSC and use <i>afo-health-check</i> command to look at the status of the services. 2. For every service which is shown as down, restart the service using <i>afo-service</i> command. 3. If the services are still not coming up, login to the KVM hypervisor and run the following command: <pre style="margin-left: 20px;">/bin/systemctl restart afo-service.service</pre>
Troubleshooting applications becoming slow to respond	General	<ol style="list-style-type: none"> 1. Login to MSC and use the <i>afo-resource-usage</i> command to find out the CPU and Memory usage of each of the services. 2. Run one-click log collection utility to collect AFO logs. 3. For any service which is consuming a large amount of CPU (~ 80-90%) and Memory (~ 75-80%), restart the service using the <i>afo-service</i> command. 4. Query the service status using the <i>afo-health-check</i> command. Once the services are up, check application response. 5. If the response still doesn't improve, contact Avaya support and share AFO logs collected above.
Resetting AFO appliance in case of unrecoverable errors	General	<p>In case of unrecoverable error, AFO provides a way to reset the appliance to factory configuration.</p> <ul style="list-style-type: none"> ▶ Procedure <ul style="list-style-type: none"> – SSH to Management Server Console (MSC) service as admin user – Switch to root user: <pre style="margin-left: 20px;">su - root</pre> – Execute the command: <pre style="margin-left: 20px;">afo-factory-reset</pre> <p>CAUTION - RISK OF DATA LOSS</p> <p>The <i>afo-factory-reset</i> command resets AFO back to factory default settings. Make sure you have taken a backup and stored it outside the AFO appliance before performing a factory reset.</p>

Document list

- *Avaya Fabric Orchestrator Solution Description (NN48100-100)*
- *Deploying Avaya Fabric Orchestrator (NN48100-101)*
- *Getting started and locating the latest software and release notes for Avaya Fabric Orchestrator (NN48100-102)*
- *Network Monitoring using Avaya Fabric Orchestrator (NN48100-500)*
- *Network Configuration using Avaya Fabric Orchestrator (NN48100-501)*
- *Bulk Device Configuration Management using Avaya Fabric Orchestrator (NN48100-502)*
- *Virtualization Configuration using Avaya Fabric Orchestrator (NN48100-503)*
- *IP Flow Configuration using Avaya Fabric Orchestrator (NN48100-504)*
- *Administration using Avaya Fabric Orchestrator (NN48100-600)*
- *Avaya Fabric Orchestrator Traps and Trends Reference (NN48100-700)*
- *Avaya Fabric Orchestrator Supported Devices, Device MIBs, and Legacy Devices Reference (NN48100-701)*

Documents download links:

<https://support.avaya.com/products/P1618/fabric-orchestrator>

<https://support.avaya.com/documents/> ; Enter AFO as the product name.

Technical support

Go to the Avaya Support website at <https://support.avaya.com> for the most up-to-date documentation, product notices, and knowledge articles. You can also search for release notes, downloads, and resolutions to issues. Use the online service request system to create a service request. Chat with live agents to get answers to questions, or request an agent to connect you to a support team if an issue requires additional expertise.
