CONFIGURATION & ORCHESTRATION MANAGER

VERSION 2.2

1. Release Summary

Release Date: 21-Dec-2010
Purpose: The Configuration & Orchestration Manager 2.2 Release Notes provide the following information:

- New Features
- Supported operating systems
- Installing COM
- Known issues

2. Important Notes Before Installing this Release

The COM 2.2 release can be installed as an update to a previous COM release install or as a full install on a machine where COM has not been previously installed.

When installing on a machine on which COM is not previously installed, ensure that the Pre Install Script has been run and it does not return any errors. The Pre Install Script does not currently provide a comprehensive check for requirements but provides a check for the most commonly seen issues. This script is available along with the software load and the instructions to run it are available in the README.TXT file inside the zip file.

When installing on a machine where COM has already been previously installed, skip the steps to run the Pre Install Script and just execute the installer. The installer will detect the existing install and will uninstall it (the uninstall will start after providing the password on the UCM Password page) and will install COM 2.2.

COM 2.2 now supports co-residency and distributed install with VPFM 2.2 release.

General Instructions:
The Linux bin file needs to have appropriate permissions before installing. Use chmod 777 <filename> command before executing the Linux installer.

Post Install Steps:

In a distributed UCM environment install, if COM is installed as a Member server, the 'Nortel UCM JBoss' service needs to be restarted for Primary, Backup (if any) and Member servers in that order. Always allow the service on first server to come up before starting the service on the next server.

If, however, COM is added as a backup server in the distributed UCM setup, reboot of all servers is required in the following order: Primary, Backup and Members

3. New Feature in COM 2.2

COM 2.2 provides the following new features & enhancements:

- **More affordable Node based licensing**
  - COM 50, 250 & 1200 device licenses
    - Four new Order codes
  - Ability to upgrade
  - Simplified device selection via topology map GUI
- **Integrated Bulk Configuration Management *(BCM license)***
  - Delivers completely integrated bulk configuration file management module
  - Single product install & deployment
    - Pre-packaged - no install necessary
  - License enabled integrated functionality
    - Common Inventory
    - COM device inventory integrated
    - Add & import devices
  - Simplified Licensing
    - BCM Licenses – 100, 1200, 5000 device nodes
  - Schedule based bulk config backup & restore
  - Bulk patch & update management
    - Excellent for pushing filter, QoS & port changes across whole network
- **Enhanced visualization & customization**
  - Customized Topology Map Preservation
    - Save customized topology map
    - Keeps the customization after restore on saved topology file
    - Preserves Topology map customization after re-discovery
    - No re-customization of maps needed after re-discovery of existing devices
    - Save time to re-customize & improves CSAT
  - Export Inventory & Single device discovery
    - Export device inventory to a CSV file
    - Helps import device for reporting purpose in XL sheet
    - Ability to manually add a device
      - Quickly add a device for inventory & EDM launch purposes
  - High-light unreachable devices
    - Topology Map enhancement to color code un-reachable devices
    - Helps indentify and troubleshoot device quickly
- **Key Device Support**
  - **WLAN 81xx**
    - Complete WLAN 81xx WC discovery & topology
    - AP inventory view
    - WLAN 81xx WC configuration support for all wired configuration – VLAN, MLT, Routing
  - **VSP 9000**
    - Complete VSP 9000 device support
    - Discovery, Inventory &Topology support
    - Configuration file management
    - Protocol configuration – VLAN, MLT, Routing, VRF
- **Improved usability – lower TCO & increased CSAT**
  - Faster COM Manager operation
    - Persist protocol discovery in database for quicker subsequent load
    - Store COM protocol discovery COM server DB
    - Faster load operation for multi-user & repeat operations
    - VLAN, MLT, Routing managers
  - **Hassle-free Upgrade & UCM platform support**
    - COM 2.2 install manager un-install & re-install automatically
    - VPFM co-existency support
  - Single server installation for small size deployments (VPFM & COM managing up to 200 devices)

- COM 2.2 support distributed UCM product install with VPFM (recommended for deployment managing over 200 devices)

COM Feature Overview

COM offers following key functionalities.

- **Web-based multiple user** application
  - Consolidated feature offering in access controlled environment
  - Scalable multi-user environnent – up to 5 concurrent sessions comptabilities
- **Network Discovery and enhanced topology map**
  - Ability to save and import/export topology information
  - Network wide configuration and provisioning workflows
- **Multi-device configuration** (as supported in ESM) with enhanced functionality
  - SMLT/MLT, VLAN, Routing, VRF
- **Intuitive wizards and template** driven configuration of complex network configurations of technologies like,
  - SMLT/MLT, VLAN
  - Wizard and template management
- **Centralized off-box element management**
  - Plug-n-play plug-in based off-box EDM (Enterprise Device Manager) management – Download, host and launch capability with-in COM application
  - EDM inventory, updates and device & user access control
  - Day 1 support for configuration of on-going Avaya devices roadmap
- **Device configuration file management**
  - Backup, restore and diff capabilities
- **Device security & password management**
  - As offered in ESM 6.3
- **Event Viewer**
  - Syslog receiver and viewer
- **Flexible role-based management**
  - Access control – Admin users and operator users
  - User access control
    - Device level access assignment capability – Read-only & RW
    - Sub-manager access control
- **Audit logs** capability on write operations
- **Tools integration**
  - Legacy JDM integrated
  - CLI*Manager integrated – telnet access via Web
- Standards-based management interfaces – SNMP, telnet, ping, HTTP

4. Supported Operating systems

The following table lists the operating systems supported by COM 2.2

Operating system	Version
Windows	2003, 2008
Linux	RHEL 5.2

Supported browsers for COM 2.2 are FF 3.x and IE 7.0. COM has a better performance with FF 3.x browser than IE 7.0

COM 2.2 bundles the Java Runtime Environment (JRE) Version 1.5 and 1.6 needed for various parts of the application or the applications that are launched by COM.

5. Device Support

Following devices are officially supported by COM 2.2

Device	Software release
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
Virtual Services Platform VSP 9102	3.0
Ethernet Routing Switch 5510, 5520	6.0, 6.1
Ethernet Routing Switch 56xx	5.1, 6.0, 6.1, 6.2
Ethernet Routing Switch 5530	5.1, 6.0, 6.1, 6.2
Ethernet Routing Switch 45xx	5.2 , 5.3, 5.4
Ethernet Routing Switch 25xx	4.1.x, 4.2, 4.3
Ethernet Routing Switch 16xx	2.1.5.x, 2.1.6.x
WLAN	23xx, AP 23xx
WLAN WC8100, AP8120	1.0

Following devices support is available with COM 2.2 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	2.1

Switch 1424T	
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, 3.0, 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

6. Installing COM

The following steps are needed when installing COM 2.2.

For a machine where COM is already installed, the first two steps should be ignored:

- Run the pre-install script and make sure there are no reported errors. If there are errors, please resolve them before installing COM 2.2
- Obtain the trial license for the server where you want to install COM
- Check that the COM installers have permissions to be executed (Linux file may need to be modified using “chmod 777 filename” command).
- Execute the installer. On recommended hardware, install time will be between 15-25 minutes. On slower systems, install may take up to 30 minutes.

Please refer to the Install Guide for more details.

7. 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

8. Deployment Recommendations

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

- The new 'Save Topology across Discovery' option works well for fairly static networks. If your network changes a lot or you use COM in lab setups, it is recommended to disable this option in the Discovery preferences.
- After applying a new license to COM (for example: node count upgrade license), the user needs to log out and log back in for the license to take effect for that session.
- In the distributed UCM setup, the following precautions need to be taken:
    - If the primary server requires a reboot, stop 'Nortel UCM JBoss' service on all member and backup servers. Reboot primary and wait for 'Nortel UCM JBoss' service to come up completely. Next, restart 'Nortel UCM JBoss' service on backup server and also wait for it to come up. Then restart the same service on member servers.
    - If a member or backup server requires a reboot or any JBoss needs to be restarted, first reboot the member or backup server (if desired). Stop 'Nortel UCM JBoss' service on all servers and then start them in the following order: Primary, Backup and Member.
    - If COM is a member in the UCM solution, the COM session will timeout in 2 hours. If the timeout occurs, the COM managers will show an error message about not being able to get credentials. To resolve this issue, please logout and log back in.
- When running COM and VPFM on the same server, the trap and syslog ports will conflict. This can be resolved by changing the ports for VPFM under the Tools - Trap & Syslog Browser section. Go to the Traps/Syslogs tabs, click on settings button and change the listener port. For COM, this can be changed in the Preferences - General tab in the Admin panel. Alternatively, we recommend that VPFM be used as the trap/syslog receiver and these traps/syslogs be forwarded to COM. The forwarding in VPFM can be setup in the same section where the listener ports are changed.

9. Known Issues

In COM 2.2, these are the known issues:

- The Config Audit Tool does not operate correctly when COM is a member or backup in the distributed UCM setup.
- Trap/Syslog Viewers: The print functionality on Trap/Syslog viewers doesn't work if popups are enabled. It is recommended to always have popups disabled before trying to print.
- If COM is installed as a member or backup to primary VPFM 2.2 install, the node count for COM's installed licenses will not be displayed correctly.
- Uninstall hangs if no password is entered when prompted (wi00841035)
- UCM users are not restored after upgrading from COM 2.1.1 to 2.2 (wi00835727)

To access more technical documentation, search our knowledge base, or open a service request online, please visit Avaya Technical Support on the web at: http://www.Avaya.com/support