NOTICE # FN-PRD-SD-021814-01

Type	☑Product Announcement
	☐Product Support
	☐End of Life
	☐Pricing
	☐Sales & Marketing
	☐Training
Region Applicable	☐APAC ☐EMEA ☐NAM ☑All
Subject	System Director 6.1-0-3
Field Notice Date	02/18/2014
Effective Date	02/18/2014
Notice Number:	FN-PRD-SD-021814-01

Notice

This field notice is provided on an "as is" basis and does not imply any kind of guarantee or warranty, including the warranty of merchantability. Your use of the information on the field notice or materials linked from the field notice is at your own risk. Meru reserves the right to change or update this field notice at any time.

Summary

Meru Networks announces availability of System Director 6.1-0-3. There are a large number of feature enhancements associated with this release over the previous GO-TO SD 5.3 release (see **What's New** section). For certain sites that piloted SD 6.0, this version of SD supports all the functionality found in SD 6.0 and now includes support for all currently available access points & controllers (see Table 1).

Table 1 - Supported Access Points and Controllers

Hardware/Software	Supported	Not Supported
Access Points	• AP832e, AP832i • AP433e/AP433i/OAP433e • AP433is • AP301, AP302, AP310, AP311 • AP320, AP320i • AP332e, AP332i • AP1010i/AP1020i • AP110, AP1014	
Controllers	• MC6000 • MC5000 (with or without Accelerator • Module) • MC4200 (with or without 10G Module) • MC3200 • MC1550 • MC1500 • MC1500-VE • MC1550-VE • MC3200-VE • MC4200-VE	MC4100

What's New

System Director 6.1-0-3 introduces the following new features:

Spectrum Manager Software Sensor

Support for users to perform spectrum analysis without requiring Spectrum Manager and E(z)RF Network Manager as supplementary tools. Using this feature, users can dynamically set a deployed AP in spectrum sensor mode, providing spot analysis when problems are located. See *Accessing Spectrum Manager* section in *Meru Configuration Guide* and *Meru Spectrum Manager Users Guide* for specific details.

Threshold-Based Alarms/Events

The alarm and event management system implemented in System Director 6.1-0-3 allows users to specify thresholds that must be reached before an alarm will trigger. For instance, a Rogue AP Alarm may be customized such that an AP has to be present for a specific amount of time before an alarm is thrown, or it can be configured to trigger immediately upon detection. See *Alarms* and *Events* sections in *Meru Configuration Guide* for additional details.

Management Traffic over VLAN

In previous releases, management traffic from the controller was required to be transmitted via the G1 Ethernet interface on the default untagged VLAN. This feature allows the configuration of multiple Management VLAN interfaces on G1, allowing APs to discover the controller even when they are deployed on multiple separate VLANs. See *VLAN Interfaces* section in *Meru Configuration Guide* for configuration steps.

VMWare Controller Enhancements

The existing Virtual Controller support has been enhanced to allow VMWare controllers to be used as an N+1 backup. Users are also provided with the ability to utilize as many or as few Virtual Interfaces on the controller as desired, addressing a limitation with MC4200-VE models.

AP VPN Robustness

General improvements have been implemented to enhance a deployed VPN AP's ability to stay alive under sustained high traffic load. This is designed to limit the instances in which an AP loses contact with the VPN controller or reboots due to high traffic load.

Usability Enhancements

General improvements have been implemented across the Web UI to help users navigate through the various functions more easily. These enhancements should result in fewer compatibility issues across various browser types, a more consistent look and feel to the overall UI, fewer Javascript security errors, and faster page loading, among others.

Web UI for File Management

System Director 6.1-0-3 implements a web interface to manage various files on the controller, including AP Boot Scripts, Upgrade Images, Diagnostics, and Syslog data. This eliminates the need for the user to access the CLI in order to manage these files. See *Managing Files Via the Web UI* section in *Meru Configuration Guide* for configuration steps.

Upgrade Enhancements

Upgrade directly from System Director 5.3 (including all maintenance releases after FCS) or 5.1 (FCS or maintenance), eliminating the previous requirement that users incrementally upgrade to the immediately preceding release prior to attempting upgrade to the latest version. System Director 6.1-0-3 will not allow the user to upgrade from System Director 5.2.

Service Control

Service Control is Meru's support for zero configuration network protocols in System Director. Service Control allows you to easily manage the discovery and advertisement of bonjour services on the wireless network in campus and large enterprise deployments. See *Using Meru Service Control* section in *Meru Configuration Guide* for more details.

IPv6 Client Support

Support for IPv6 clients over both bridged and tunneled connections. Note that while client support is implemented, IPv6 Infrastructure support is currently not provided. See *IPv6 Client Support* section in *Meru Configuration Guide* for additional details.

Captive Portal in Bridge Mode

Previous versions of System Director supported Captive Portal authentication for ESS profiles configured to use tunnel data plane mode. This feature will extend that capability to bridge mode profiles as well.

Support for Wildcard Certificate

System Director now supports wildcard certificates for both tunnel and bridge mode captive portal. See Generate a Wildcard Certificate section in *Meru Configuration Guide* for additional details.

Device Fingerprinting

Device fingerprinting allows collection of various attributes about a device connecting to your network. The collected attributes can fully or partially identify individual devices, including the client's OS, device type, and browser being used. In previous versions of System Director, Station information included station's mac-address and its network activity. Device Fingerprinting can provide more information for the station and allows system administrators to be more aware of the types of devices in use and take necessary actions. You can view the details of the devices via **Monitor > Dashboard**. You can add, delete, or restore the devices using the `fingerprint` command and the `show fingerprints` command displays the device fingerprints stored in the system. See *Meru Command Reference Guide* for more information on the CLI commands.

Controller Apache Server Upgrade

System Director 6.1-0-3 upgrades the web server bundled on the controller to keep the version current and up to date on fixes to any perceived vulnerabilities.

Integration with Palo Alto Networks Firewall

System Director 6.1-0-3 supports syslog based integration with User ID Agent solution of the Palo Alto Networks Firewall solution. This allows for setting up firewall rules on the Palo Alto Firewall when a user login into the network.

New 802.11ac-Capable AP Models

The AP832 is a new 3 stream dual radio AP platform which implements the 802.11ac standard. Key hardware features of AP832 include two 3x3 MIMO 802.11ac capable radios, two Gigabit Ethernet Interfaces (one PoE capable), one USB port, 32MB flash, 256MB RAM and Dual Core Freescale P1020 CPU.

The AP832 series is available with either internal (AP832i) or external (AP832e) antennas. See the *Meru AP832 Installation Guide* for more information.

MAC Filtering per ESSID

Support of Mac based filtering authentication mechanism. MAC filtering controls a user station's access to the WLAN by permitting or denying access based on specific MAC addresses.

Removed License Requirements for GRE, Mesh, and PUF

Users are no longer required to purchase licenses GRE, MESH, and PUF.

Availability

Available for download from the Support portal as of 02/17/14.

Further Assistance

Additional information about this release can be located in the Release Notes. The software and release notes can be downloaded from: http://support.merunetworks.com (active support login required).