

## CPE F6452 - Features and Improvements

### ● Wi-Fi Roaming

We've added support for Wi-Fi roaming on Mako 4000 and Mako 6000 series, so users can experience a seamless transition between access points as they move around an environment.

## CPE F6452 - Maintenance

- Cellular: Added authentication support for Zest4 SIMs on Mako 5600 and 6600 series.
- Cellular: Added support for multiple APNs for a SIM.
- Cellular: Fixed issue with 3G reported as no signal when there is a signal.
- Cellular: Fixed issue with carrier name reporting for multi-carrier roaming SIMs.
- Cellular: Improved handling of error conditions on Mako 5600 series.
- Cellular: Improved reporting of ICCID and IMEI information to CMS on Dual-SIM Mako devices.
- Diagnostics: Added additional state information to the ARP table listing diagnostic.
- Diagnostics: Added Bridge STP diagnostic.
- Diagnostics: Added support for MTR packet traceroute diagnostic.
- Diagnostics: Added Wi-Fi Survey diagnostic to scan the area to identify what channels are in use and by what SSIDs.
- Diagnostics: Fixed Bridge diagnostics not working on Mako 4600 series in AP mode.
- Diagnostics: Improved accuracy of Site Network Diagram last seen timestamps and listing of devices on bridges.
- Failover: Added the ability to disable Wi-Fi networks if the Mako has no internet connectivity or is acting as a secondary in a HA pair.
- Firewall: Fixed issue with non-logged rejected TCP traffic receiving an ICMP packet rather than a TCP Reset packet.
- Firewall: Fixed issue with IPsec source port using a high port on Virtual Makos.
- Firewall: Increased connection tracking table size on Mako 7000-series, Mako 8000-series and virtual Makos.
- Firmware: Removed support for legacy firmware update file formats.
- Hardware: Updated boot loader for Mako 5600 devices.
- Hotspot: Fixed issue with noisy startup logs.
- IDS: Added support for exempt subnets.
- Network: Added ethernet port flapping detection and automatic temporary disabling of the port.
- NTP: Fixed rare issue with NTP not updating in a timely fashion under specific conditions.
- OpenVPN: Allow multiple concurrent connections from a single username.
- SFP: Added support to the Mako 6600 series SFP for connectivity to AVDA edge devices.
- Speed Test: Changed the speed test server to not run on cellular interfaces.
- System: Upgraded kernel and system components to latest versions.
- VPN Cloud: Fixed issue with connection instability when remote sites have access to large numbers of routes.
- Wi-Fi: Fixed issue where a failed Wi-Fi interface results in all Wi-Fi interfaces restarting, rather than just the failed one.
- Wi-Fi: Improved compatibility of 802.11ac on Mako 4000 series devices.

