

### CPE F6402 - Maintenance

- Network: Added support for point-to-point /31 static IP subnets on both WAN and LAN.
- SFP: Fixed issue with SFP interfaces not recovering after a soft restart in certain situations.

### CPE F6401 - Maintenance

- Cellular: Improve compatibility with certain multi-carrier SIMs.
- IDS: Added IDS support for Mako 5600 devices
- Syslogs: Fixed issue with remote syslogs not working for Mako 6500 devices.
- Wi-Fi: Changed the default 5Ghz AC/AX bandwidth to 80Mhz.
- Wi-Fi: Fixed issue with Mako 4600 devices not displaying Wi-Fi up/down status.
- Wi-Fi: Improve stability for Mako 6500-E devices.

### CPE F6400 - Features and Improvements

- BGP: Added support for peer specific path prepending.
- Cellular: Added additional connection information in reports to the Mako CMS.
- Diagnostics: Added support for SFP diagnostics on Mako 7000/8000 series devices.
- Hotspot: Added the ability to specify DNS servers on a per-hotspot basis.
- NetFlow: Added additional metadata to netflow v9/IPFIX, including MAC, VLAN and direction information.

### CPE F6400 - Maintenance

- ARP: Fixed issue with ARP table thrashing on very busy Mako devices with large numbers of end user devices.
- Cellular: Fixed issue with Zest SIMs using Mako 6600 devices.
- Cellular: Improved collection of SIM status information on dual-SIM Mako devices for inclusion in the Network Availability Report and other reports using cellular information.
- Cellular: Improved handling and recovery of unexpected error conditions on Mako 6600 devices.
- Cellular: MakoScope now reports if a cellular modem is unresponsive.
- Cellular: Upgraded the cellular firmware update mechanism.
- Diagnostics: Fixed broken output of domain-based firewall rules diagnostic.
- Failover: Added the ability to have IP aliases on WAN interfaces follow the acting primary Mako device rather than always on both Mako devices.
- Firewall: Fixed issue with Mako device checking for country database updates even if there are no country-based rules defined.
- Firewall: Fixed issue with NAT rules using IP ranges not working.
- Firmware: Fixed issue with syslogs incorrectly reporting the Mako device will reboot after a configuration update.
- Firmware: Fixed rare issue when upgrading firmware on Mako 4600 devices.
- Hardware: Fixed rare issue with some Mako 6600 devices not starting up correctly after a firmware update.
- Hardware: Fixed rare issue with storage corruption on Mako 6600 devices.
- Health Monitor: Fixed potential memory leak for ICMP ping based monitors.
- IDS: Fixed issue with IDS not starting on Mako 8600 devices.
- IDS: Fixed issue with IDS/IPS preventing some communications to the Mako CMS.
- Mako Guardian: Fixed issue with logs not uploading in a timely fashion on Mako 6500-M devices.

- MakoScope: Changed reported link speeds from kbps to Mbps.
- Netflow: Fixed issue with setting the flow timeout.
- OpenVPN: Improved compatibility when running OpenVPN in a dual-Mako HA setup using Mako Failover.
- Syslogs: Fixed issue where some syslogs created during system agent startup are not recorded.
- System: Added additional diagnostic information when the system agent restarts.
- System: Changing between AP and Security Gateway modes on Mako 4000 series devices now results in the device rebooting.
- System: Removed deprecated TLS cipher suites from Mako CMS communications.
- System: Updated DNS and DHCP subsystems.
- System: Upgraded kernel and system components to latest versions.
- VDSL: Fixed issue with Internet LED not showing on Mako 6600 VDSL devices.
- VDSL: Fixed issue with VDSL interface disappearing after a reboot on Mako 6600 devices.
- VPN Cloud: Fixed issue with /31 routes sometimes being preferred over /32 routes.
- VPN Cloud: Fixed rare issue with routes lost when a VLAN trunk port is briefly unplugged.
- Wi-Fi: Fixed issue with VLANs using the same MAC address on Mako 4500 devices.
- Wi-Fi: Fixed issue with Wi-Fi with multiple SSIDs restarting periodically on Mako 4600 devices in AP mode.

Have a suggestion to improve your experience with the Mako System?  
We'd love to hear from you! [support@makonetworks.com](mailto:support@makonetworks.com)



Changelog  
CPE F6402

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