

## CPE F6582 - Maintenance

- **ATG:** Improved support for TLS-350 devices.
- **VPN Cloud:** Fixed issue with SNATs not working on Mako 4000 series hardware when used as security gateways.
- **VPN Cloud:** Improved compatibility with CMS Diagnostics API when VPN Cloud is not running.
- **VPN Cloud:** Temporary tunnels that are down no longer impact site health metrics.
- **Wi-Fi:** Fixed issue with incorrect connection time stats on Mako 4000 series hardware.

## CPE F6581 - Features and Improvements

- **Wi-Fi OUI Filtering**  
We've added for OUI-based client filtering to Wi-Fi, so you can restrict devices that are able to connect to the Wi-Fi network based on their OUI rather than full MAC address.
- **Wi-Fi Diagnostics Improvements**  
We've added additional information to Wi-Fi connected client diagnostics, making it easier to identify the performance characteristics of each connection.
- **Per-LAN High Availability**  
We've added optional support for each LAN's VIP to be active on a different Mako from the primary Mako device.

## CPE F6581 - Maintenance

- **Cellular:** Improved handling of cellular modem firmware updates on Mako 5600 series.
- **VPN Cloud:** Added support for Zero-Route VPN Clouds to co-exist with other VPN Clouds.

## CPE F6580 - Features and Improvements

- **Link Bonding Improvements**  
We've added support for 802.3ad link aggregation on Mako 4600, 5600, 7600, 8600 series hardware, in addition to the existing Mako 6600 series hardware support.
- **ECMP Routing Improvements**  
We've added support for ECMP routes learned via BGP.

## CPE F6580 - Maintenance

- **Cellular:** PTCRB compliance updates for Mako 5600 series hardware.
- **Hardware:** Added support for Mako 7610 series hardware.
- **Hardware:** Fixed issue with PSU and Fan issue reporting for Mako 8600 series hardware.
- **Hardware:** Improved high temperature detection.
- **Hotspot:** Fixed issue with Hotspot running on large VLAN IDs.
- **Hotspot:** Hotspot is now only active on the acting primary in a high availability (HA) failover pair.
- **Mako Guardian:** Applied general improvements across the board.
- **VPN Cloud:** Fixed issue with disappearing routes when a VLAN or WLAN or similar is removed.
- **Watchdog:** Updated system watchdog.
- **Wi-Fi:** Added ability to flag a connection as metered.
- **Wi-Fi:** Added more Wi-Fi status data when reporting system state to the Mako CMS.
- **Wi-Fi:** Fixed issue with RADIUS authentication not working when the RADIUS server is accessible using a VPN Cloud.
- **Wi-Fi:** Fixed issue with Wi-Fi still showing up on the Mako CMS after the radio has been disabled.
- **Wi-Fi:** Improved output of WLAN status diagnostics on Mako 4000 and 5000 series hardware.

- Wi-Fi: Updated firmware drivers for Mako 4600 series hardware.

## CPE F6580 - Known Issues

- Mako 4550: In order to upgrade to F6540 or newer, the Mako device must first be running F6513 or newer. Please contact Mako Support if you need to upgrade a Mako 4550 running firmware older than F6513.
- Mako 4000 and 5000 series on firmware earlier than F6540: The MAC address used by the Mako device when requesting a DHCP lease may have changed away from the MAC address used in earlier firmware versions. Please update any applicable static DHCP leases as required to use the new MAC address.

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 F6582

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