

Software Release Notes – Kernel 4.16L.01/4.16.04

Firmware Upgrade

Changes to upgrade the Firmware from the original Version 4.06 and 4.12 to Version 4.16L.01. Provision has been made to upgrade from 4.16L.01 to the latest 4.16.04.

4.16L.04 is the latest firmware offering from Case Communications. All changes made when upgrading from software release 4.06/4/12 to version 4.16L.01 are preserved in 4.16L.04.

V2.1 Kernel 4.16L.04 161209 New utilities made available

- TCP Dump was added to allow network managers to monitor users traffic within the 6401.
- VI editor
- Racoonctl
- Telnet

V2.0 Kernel 4.16L 04 161114 (Fixed Bug in PPP Monitor)

Fixed Bug in PPP Health check monitor

V1.4 Kernel 4.16L.01 160316 IPSec Enhancements

- A Provision to edit IPSec Tunnel connections is implemented in Release 4.16L.01.
- Auto-Recovery of IPSec tunnels is implemented.
- A provision to configure IPSec DPD parameters is provided.
- A provision to configure IPSec Tunnel role – Initiator/Responder.
- A provision to configure IPSec local/remote identifiers.

VLAN Tagging Interface

This is a new feature implemented in 6401 to tag outgoing traffic with a particular VLAN tag. A configurable VLAN tagging IP interface can be configured from web interface.

Built-in Default Configuration (Internal Case use only)

Case Communications introduced default configuration for 6401s in field in order to facilitate remote upgrade. In the event of a major upgrade where the configuration data is erased, the router will default to a Case Communications ISP user name and password. This has the effect that Case can usually logon to the router and re-store the customer's configuration. Some ISP's will not allow this so it means a visit is necessary. All future upgraded after 4.16.04 should be possible remotely.

V1.3 Kernel 4.16L.01 160119 PPP Watchdog Timer

This is a new feature to recover 6401 in case of ADSL line problems. A provision is made to check for reachability of pre-configured IP addresses periodically and reboot 6401 once any issues are detected. This feature facilitates 6401 to recover from possible ADSL line issues.

V1.2 Kernel 4.16L.01 150928 Menu Structure Changes

The web menu structure of the "Support" login is made the same as that of "root" login. Previously a remote user logging in with the 'support' user name had limited access. Now a remote user accessing the 6401 through the 'support' login, has the same rights as a local "Admin" logon user.

Web page fixes

Several web page fixes were made. Un-used features are removed from web menu structure.

Some other fixes are:

- * Removing USB Port from Diagnostics Page.
- * Changing Hostname parameter in DNS Proxy page to "Case".
- * Setting proper NTP servers and time zone in Internet time page.
- * Removing (null) interface entry in WAN Statistics page.
- * NAT – Virtual Servers parameters were not configurable when accessed via WAN Connection. This is fixed in this release.
- * Security – IP Filtering parameters were not configurable when accessed via WAN Connection. This is fixed in this release.

Admin User Changes

Administrator user name and password are changed from “Admin”/”Admin” to “root”/”case”. Once software is upgraded from 4.06/4.12 version to 4.16L.01, these new credentials come into effect. Having root/case login to be allowed both remotely (ISP) as well as through LAN connection. Prior to release 4.16L.01, ‘support’ users could only login through a remote connection.

V1.1 Kernel 4.16L.01 150820 SNMP Fixes/Improvements

- We have improved the Caseview SNMP Management Systems 6401 EMM (Enhanced Management Module) when 6401 is running with software release version 4.16L.01
- Crashes in Linux-3.4RT kernel corresponding to SNMP requests for non-Ethernet ports are fixed.
- SNMP implementation in previous version was inefficient. For each SNMP IF-MIB query, SNMP agent implementation SNMP took 20 to 30 seconds for each object. This could make SNMP query for interfaces from 6401 EMM to take from 5 to 10 minutes. Case Communications fixed this and optimized SNMP implementation.
- When ADSL interface is created, it is included in SNMP statistics.

V1.1 Kernel 4.16L.01 150820 Support to facilitate External Watchdog timer

An external watchdog timer is already built into the 6401 in order to reboot the 6401 in case of chip lockup. A new facility to trigger this external watchdog timer is implemented in 4.16L.01