



CDM-570A Packet Processor

Release 1.5.2

Software Release Notification

CDM-570A Packet Processor Option Card 1.5.2 Release

Applicability
Release 1.5.2 (FW-0020781M) for the CDM-570A Packet Processor Card.

Rev #	Description	Date
-	Release Version 1.1.1	09/11/2014
A	Release Version 1.1.2	10/15/2014
B	Release Version 1.2.1	11/18/2014
C	Release Version 1.3.1	04/06/2015
D	Release Version 1.3.2	05/20/2015
H	Release Version 1.4.1	08/12/2015
J	Release Version 1.4.2	11/23/2015
K	Release Version 1.4.3	07/12/2016
L	Release Version 1.5.1 (Not a Public Release)	10/13/2016
M	Release Version 1.5.2	01/04/2016

FSCM No. 4J515

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This Release

This Packet Processor release has the following change:

1.5.2 Features

- Added Support for new VersaFEC-2 Hardware module's modcodes
- Carrier ID Option – 570A can now embed ID Carrier. Available through FAST Option.
- VMS Support for Carrier ID and VersFEC-2.
- VMS Support for CnC Connection configuration. Supports both ACM and APC/AUPC modes.
- CLI - Vipersat menu for CnC configuration now supports CNC_ACM_OFF, CNC_ACM_ONLY and CNC_ACM_AUPC
- Dynamic Power Control (DPC) Improvements
 - Use (and display) Es/N0, rather than Eb/N0
 - Support VersaFEC-2
 - Target Es/No is now based on selected modcod, rather than user configured.
 - Timing changes to make DPC more responsive

NOTE: DPC is not supported in ACM or CnC modes.

1.5.2 Fixes

- Packet Performance improvements
- Display Local & Remote SNR on Modem Information Page.
- Adjust Minimum configurable symbol rate to 37,000 for ACM Modes.
- Streamload enhancements to accomodate bigger base modem images (1.5.2 and later).
(Needs vLoad 4.5 or Later versions)
- CLI - User now selects code rate value only for VersaFEC modes, Modulation & FEC are updated automatically. For VersaFEC-2, default is Short Block.
- CLI - Set Current Configuration on Vipersat Home State Menu now works for all VersaFEC codes.
- Fix for failure of TOS Switching after a revert to STDMA/ECMv2
- Fix Issue(#12382): When Dedicated Management Port is Enabled, Traffic IP Address is lost and defaulted (intermittently) during the firmware upgrade process, while transitioning the base modem firmware from 1.4.3 to 1.5.1.
- Fix Issue (#12365) While in IP-ACM and CnC, with redundancy enabled, the off-line modem intermittently does not acquire lock

Valid Configurations of Modem Firmware

The tables below identify the valid configurations of CDM-570A base modem and Packet Processor Firmware. Modems that are configured with firmware that does not match these configurations may not function as expected.

Compatible Bulk Versions

CDM-570A Packet Processor Bulk	CDM-570A Modem Bulk	VMS version
FW-0020781- (v1.1.1)	FW-0020683B (v1.2.0)	3.12.4
FW-0020781A (v1.1.2)	FW-0020683C (v1.2.1)	3.12.4
FW-0020781B (v1.2.1)	FW-0020683C (v1.2.1)	3.12.4
FW-0020781C (v1.3.1)	FW-0020683E (v1.3.1)	3.13.0
FW-0020781D (v1.3.2)	FW-0020683F (v1.3.2)	3.13.0
FW-0020781H (v1.4.1)	FW-0020683G (v1.4.1)	3.13.0
FW-0020781J (v1.4.2)	FW-0020683H (v1.4.2)	3.13.0 and 3.12.x
FW-0020781K (v1.4.3)	FW-0020683J (v1.4.3)	3.13.0 and 3.12.x
FW-0020781L (v1.5.1)	FW-0020683K (v1.5.1)	3.13.0 and 3.12.x
FW-0020781M (v1.5.2)	FW-0020683L (v1.5.2)	3.14.0 and 3.13.x

Compatible SNMP MIB

MIB Name	Filename	Date
CDM-570A Packet Processor MIB	FW-0020786C_1_4_1.mib	07/31/2015

Note: The SNMP MIB files are not needed for upgrading the unit; they are only needed if using an SNMP NMS / browser for SNMP monitor and control of the CDM-570A modem.

Change History

This section shows the change history over previous versions.

1.4.3 Fixes

- Router task stalls while parsing response of FTP command PASV, due to data exception.
- Support VMS redundancy, through updation of PARAM file save counts.
- Support up to 255 Filter Routes, instead of 20, which is the total size of the route table.
- Fix for system reboot when Rx RF Cable connected to KST, with 570A in Viterbi mode.
- Fix Jammer problem with STDMA LRS (Last Remote Standing), if a remote was removed from the Burst Map when it was in LRS state it would continue to burst.

1.4.2 Features

- Supports VMS version 3.12.x or greater when the modem is in 570 compatibility mode.

1.4.2 Fixes

- Fixed the bug which RIPv2 does not function in Router Vipersat Mode, with Dedicated Management Port Enabled.
- Fix web and snmp cannot set traffic port to 100M and Auto in Managed Switch mode. (TT# 11800)
- Redundancy switch over now supported on Vipersat Remote with Redundancy and Dedicated Management Port Enabled.

1.4.1 Features

- RADIUS
- Add number of active flows to CLI menu and SNMP
- Add SNMP Configuration to the CLI menu, TT#11376

1.4.1 Fixes

- Restrict Max Ethernet Packet size that could get through 570A to 1578 Bytes, TT#11403
Vipersat Fixes
- Fix CDM570 Compatibility mode FlowID issue. The FlowIDs are exceeding number of available system flows.
- Support for Remote Route Label Feature in Router Vipersat Mode on Hub Outbound Side
- Improve System performance under high traffic flows in Router vipersat Mode, by spreading CPU intensive flow cleanup over time.
- Improve Header compression performance by reducing memory fragmentation.
- Change processing of Route updates from VMS to work better under heavy load conditions.
- Add protections to prevent a remote from putting an SCPC carrier in the ECM/STDMA Channel. TT#11375

1.3.2 Fixes

- Add support for logging call stack during exceptions.
- CDM570A does not send Streamload configuration file change feedback.
- Misalignment of "Base Modem Boot from" selection through vLoad App.
- Reset the Base Rule on CLI for VLAN QoS Mode.
- Restrict Web user from changing Traffic IP, while Dedicated Management is Disabled.
- Reduce configuration change updates from base modem while unit has redundancy and CnC Enabled.
- Send feedback response for config file pushed through streamload

1.3.1 Features

- Full Vipersat support with VMS 3.13.0
- Dedicated Management Port

1.3.1 Fixes

- Updated MIB descriptions
- Restrict user from configuring Traffic IP/Subnet bits while in Managed Switch Mode
- Event Log gets erased during soft reset
- Web does not allow user to add route in pt-to-pt mode without setting HDLC Address
- Telnet user is not able to add a route entry due to CR <-->CRLF issue
- Allow Web/SNMP user to VLAN ID when Brouter mode is disabled.
- Events logs reports exception stack trace.

Software Release Notification

1.2.1 Features

- Full Vipersat support (570 compatibility mode).
- Supports 64K system flows.

1.2.1 Fixes

- CLI baud rate is changed to 38400. It was 1152000.
- Fixed Telnet CLI does not put line feed.
- Fixed Telnet does not work if CLI cable is removed after its bootup.
- Bootrom auto recover when boot parameters got corrupted.
- Fixed CPU utilization.
- Added LANtoLAN, Payload Comp Type and Number Of System Flows to SNMP and Web.
- Fixed "Receive HDLC Addresses" in the web page.

1.1.2 Features

- Added Vipersat support

1.1.1

- Initial release

Known Issues

Functional Issues

If Vipersat Home State uses a VersaFEC-1 modcod, after the upgrade to 1.5.2, configuration may become invalid.

Workaround: Re-enter the Home State values and save the param file.

Resizing a CnC link from VMS is not supported.

Workaround: Tear down the existing link and create a new one.

User Interface Issues

None