Version 1.3.3 Bulk Release for CDM-IP 550/300L Modems (FramerI)

Approval Signatures			
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Applicability
Version 1.3.3 Bulk Release for CDM-IP 550/300L modems (FramerI). Includes all related firmware and SNMP MIBs

Revision History			
Rev #	**Description**	**Date**	**Prepared by**
A	Version 1.3.0	1/29/2004	W. Davis
B	Version 1.3.1	7/26/04	P. Heck
C	Version 1.3.2	08/03/04	P. Heck
D	Version 1.3.3	07/15/05	W. Davis

FSCM No. 4J515

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Introduction

Version 1.3.3 Bulk Maintenance Release is an upgrade release for the CDM-IP modems with FramerI hardware. It is **recommended** that all field-installed CDM-IP networks be upgraded to this version of software. This bulk release should only be used with CDM-IP 550 and CDM-IP 300L modems that are using the FramerI hardware.

IMPORTANT! The IP module must be running at least FW10555A Version 1.3.0 before upgrading to FW10555D Version 1.3.3.

Defect Fixes

Denial of services not cleaning up Immediately.
Deniel of service attack start after 50 percent of flows are used rather than at 90 percentage of flows used. This problem causes traffic burstyness. This has benn resolved.

Firmware Update proection.
Added support to prevent the wrong target modem image from being upgraded.

System Stability issues.
Significant system stability issues resolved as a result of intensive stress testing.

Backward Compatibility

IMPORTANT

CDM-IP modems upgraded to Version 1.3.3 can only interoperate with Version 1.3.3. Version 1.3.3 is not compatabile with Versions 1.3.2, 1.3.0, 1.1.3, 1.1.2, & 1.1.1. Modems running previous versions of software must be upgraded to Version 1.3.3.
The IP module must be running Version 1.3.0 (or 1.3.2) before upgrading to Version 1.3.3.

Valid Firmware Configurations

The table below identifies the valid configurations of base modem, CDM-FFPGA, CDM-IP FPGA, CDM-IP Boot, and CDM-IP App software that are supported. Modems that are configured with software that does not match one of the entries below may not function as expected.

	Base Modem M&C	CDM-IP BOOT	CDM-IP Bulk	CDM-IP FFPGA	CDM-IP FPGA
CDM-IP 550	FW1416-1T v1.32	FW9782-1D	FW10555D	FW9783B	FW9784-
CDM-IP 300L	FW8460-1AF	FW9782-1D	FW10555D	FW9783B	FW9784-

Compatible SNMP MIBs

The CDM-IP Controller MIB, CDM-IP 550 MIB, and CDM-IP 300L MIBs have been revised with this software release. These new versions of these MIB files should now be used.

MIB Name	Filename
Comtech EF Data	FW10174-8-.mib
CDM-IP Controller (updated)	*FW10174-2d.mib*
CDM-IP 550 (updated)	*FW10174-3b.mib*
CDM-IP 300L (updated)	*FW10174-4b.mib*
CDM-IP 550 Traps	FW10174-5-.mib
CDM-IP 300L Traps	FW10174-6-.mib

Changes in the IP Controller MIB file: (FW/10174-2d.mib)

1. The cdmipTransmit3xDesEncryptionOpt OID, cdmipTxHeaderCompressionOpt OID, and cdmipTxPayloadCompressionOpt OID can now have a value of perRoue (2).
2. The cdmipTransmitEncryptEnabled and cdmipReceiveDecryptEnabled OIDs have been removed. Instead 3xDES is controlled from the cdmipTransmit3xDesEncryptionOpt OID in Features Config sub-tree.
3. The cdmipTransmitKey1-8 OIDs have been moved in MIB tree to be contiguously ordered.
4. The cdmipReceiveKey1-8 OIDs have been moved in the MIB tree to be contiguously order.
5. The cdmipModemPacketConfiguration OID has been renamed to cdmipWorkingMode.
6. The value of routingMode (1) in cdmipWorkingMode has been renamed to be routerMode (1).
7. The cdmipDhcpServerIpAddress OID has been added to the MIB tree.
8. The cdmipRemotePortBConfig OID group has been renamed and moved into the 550 and 300L MIBs:
   - cdmipRemotePortBDeviceAddress,
   - cdmipRemotePortBBaudRate,
   - cdmipRemotePortBFormat,
   - cdmipRemotePortBInterface.
9. The cdmipDroppedPacketsMulticastNoStoe OID has been renamed to be called cdmipDroppedPacketsMulticast.
10. The following statistics have been added to the MIB tree:
    - cdmipWanFpgaWanUtilization,
    - cdmipWanFpgaLanToWanTraffic,
    - cdmipWanFpgaActualWanTraffic,
    - cdmipWanFpgaWanBandwidthSaved.
11. The cdmipHdrcompRatio OID has been changed to return an INTEGER instead of an OCTET STRING. This should allow better threading and monitoring of Header Compression.

12. The cdmipPayloadCompRatio OID has been changed to return an INTEGER instead of an OCTET STRING. This should allow better threading and monitoring of Payload Compression.
13. The cdmipQosFeature OID has been removed. The cdmipQosOpt OID in the Feature Config sub-tree should be used instead.
14. The CimQosRulesEntry OID has been renamed to CdmipQosRulesEntry.
15. In the cdmipQosRulesProtocol OID, the value of passiveFTP (7) has been replaced by ftp (7).
16. The cdmipQosRulesSrcPort and cdmipQosRulesDstPort OID ranges have been expanded to now include zero.

Changes in the CDM-IP 550 MIB file: (FW/10174-3b.mib)

The following OIDs have been add to the 550 MIB tree:
- cdmip550RemotePortBDeviceAddress
- cdmip550RemotePortBBaudRate
- cdmip550RemotePortBFormat
- cdmip550RemotePortBInterface

Changes in the CDM-IP 300L MIB file: (FW/10174-4b.mib)

The following OIDs have been added to the 300L MIB tree:
- cdmip300LRemotePortBDeviceAddress
- cdmip300LRemotePortBBaudRate
- cdmip300LRemotePortBFormat
- cdmip300LRemotePortBInterface

Known Issues

Issue: If during a voice call, either modem reboots, when the modem completes boot cycle, QoS system will drop call traffic to default QoS queue.
Workaround: None at this time
Explanation: The QoS system can only determine stream of traffic is VoIP during passing of call setup information. If either modem is rebooted and voice call is still in progress, startup messages are no longer present and rebooted modem is unable to determine traffic stream as voice call.

Issue: Traffic will not recover if RF interference lasts greater than 30 minutes
Workaround: None at this time

Issue: The IGMP client report messages does not response to the query message within Max response time setting.
Workaround: None at this time

Issue: When setting the IGMP query period, message indicates valid range from 1 to 600. However, actual range is 3 to 600. This is an incorrect value range message.
Workaround: None at this time

Issue: SNMP agent will not allow creation of any new rows in tables via multi-var bind method.
Workaround: None at this time

Issue: SNMP agent will not allow changes of any row data in tables via multi-var bind method.
Workaround: None at this time

Issue: Entering QoS rules into table, table sort should consistently sort rules into same order every time. Occurrences have been found when rule order sort is inconsistent. This is a display issue only.
Workaround: None at this time

Issue: QoS system will not distribute bandwidth fairly across streams of traffic when new streams are entering and exiting rapidly. Fair bandwidth distribution is not immediately apparent.
Workaround: None at this time

Issue: During times of heavy traffic and WAN in over-driven state, it has been found that system web server will have slower response times when using web pages for monitoring and configuration.
Workaround: None at this time

Issue: Redundancy – Rarely both units will show offline and traffic ceases to flow through modems.
Workaround: None at this time – Reboots required to recover.

Issue: Console interface does not allow Eb/No alarm threshold value to be set to minimu value of 0.00.
Workaround: Zero can be correctly set via web or SNMP interfaces.

Issue: During communication with ODU, front panel will occasionally hold "Attempting Communication With ODU", however, the actual communication path is established and working.
Workaround: Any front panel button will clear screen to normal.

Issue: ODU LNA power Enable/Disable is not functional via web and SNMP interfaces.
Workaround: Console interface can properly Enable/Disable this feature.

Issue: LNA Fault logic setting is not functional via web and SNMP interfaces.
Workaround: Console interface can properly set this feature.