

## Software Release Notification

### CDM/ODM-840 Version 1.4.8 Release

Applicability
Bulk Release 1.4.8 (FW-0000408Y) for the CDM/ODM-840. Includes all related firmware and SNMP MIBs.

Revision History		
Rev #	Description	Date
-	Initial Release version 1.1.1	08/16/10
A	Maintenance Release version 1.1.2	12/10/10
B	Feature Release 1.2.1	12/22/10
C	Maintenance Release 1.2.2	1/28/2011
D	Feature and Maintenance Release 1.2.3	4/11/2011
E	Feature and Maintenance Release 1.2.4	6/10/2011
F	Feature Release 1.2.5	9/2/2011
G	ODM-840 Initial Release 1.2.6	11/3/2011
H	Feature Release 1.3.1	11/17/2011
J	Feature and Maintenance Release 1.3.2	1/26/2012
K	Maintenance Release 1.3.3	4/6/2012
L	Feature Release 1.4.1	5/15/2012
M	Maintenance Release 1.4.2	6/26/2012
P	Maintenance Release 1.4.3	9/12/2012
R	Maintenance Release 1.4.4	10/12/2012
T	Maintenance Release 1.4.5	1/4/2013
U	Maintenance Release 1.4.6	2/26/2013
V	Maintenance Release 1.4.7	4/29/2013
Y	Maintenance Release 1.4.8	7/1/2013

FSCM No. 4J515

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## Introduction

Release 1.4.8 is a maintenance release.

## Features

- None

## Defect Fixes

- Defect #6298: The “Pkt Dropped” counter in the Mod Statistics page section of the traffic status is fixed.
- Defect #8497: The Qos priorities displayed on the CDM-840 when in Diffserv mode are now correct.
- Defect #8522: (ODM-840 Only): Added fix on PHY bringup that would occasionally cause the ODM-840 traffic port to be unresponsive at bootup.
- Fixed tickGet() issue in qos quiese related to tick counter wrapping from max value to zero.

## Network Upgrade Notes (from 1.4.x to 1.4.8 release)

**In order for dSCPC and Return Link ACM to function as expected, it is required to follow this procedure when upgrading existing networks:**

1. Upgrade all CDM-880s to v1.4.7. Reboot the CDD-880s and verify traffic is passing
2. Upgrade all CDM-840s to v1.4.8. Reboot the CDM-840s and verify traffic is passing.
3. Note: The CTOG-250/CDM-800 can be upgraded to the 1.4.6 release at any point during this process – there is no required order.

For best ECM performance always operate the return channel (CDM-840 to CDD-880) at lowest MODCOD BPSK. This will insure that under different environmental condition the remote modem has best opportunity to gain access into SCPC operation. Operating at any other MODCOD cannot guarantee reliable entry or re-entry into the network.

## Network Upgrade Notes (from 1.3.x to 1.4.8 release)

**When upgrading to version 1.4.8 from v1.3.x, Customers are required to follow this procedure when upgrading existing networks:**

1. Upgrade all CDM-880s to v1.4.7. Reboot the CDD-880s and verify traffic is passing.
2. Upgrade all CDM-800s to 1.3.4 first. Reboot the CDM-800s and verify traffic is passing.
3. Upgrade all CDM-840s to 1.4.8. Reboot the CDM-840s and verify traffic is passing.
4. Upgrade all CDM-800s to 1.4.5. Reboot and verify that traffic is passing.
5. If adding a CTOG-250 to the network, now is the time to upgrade it (if needed) and connect it to the CDM-800.

If this order of upgrade is not followed, there will be packets drops due to a change in how DVB-S2 baseband frames are processed.

Note: Upon upgrading to v1.4.x, the CDM-840 Rx MODCOD will be forced to “Auto”. This is a required configuration that allows ACM/VCM to function correctly on the Outbound Carrier. RF performance characteristics are not reduced when going to “Auto”.

### CDM-840 upgrades when in redundancy mode

The following procedure is suggested when upgrading the CDM-840 in redundancy mode:

- A. Upgrade the offline unit
- B. Reboot the offline unit
- C. Force a switch
- D. Upgrade the new offline unit
- E. Reboot the offline unit

### Firmware Compatibility

The following table describes the compatibility between Advanced VSAT component versions.

CTOG-250	CDM-800	CDD-880	CDM/ODM-840	VMS	CXU-810
n/a	1.2.x	1.2.x	1.2.x	N/A	N/A
n/a	1.3.1	1.3.1	1.3.1	3.8.1.1602	2.2.1
n/a	1.3.2	1.3.2	1.3.2	3.8.1.1635*	2.2.1
n/a	1.3.3	1.3.2	1.3.2	3.8.1.1635*	2.2.1
n/a	1.3.4	1.3.3	1.3.3	3.8.1.1635*	2.2.1
1.4.1	1.4.1	1.4.1	1.4.1	3.9.2	2.2.1
1.4.2	1.4.2	1.4.2	1.4.2	3.9.2	2.2.1
1.4.3/1.4.4	1.4.3/1.4.4	1.4.3	1.4.3	3.9.10	2.2.1
1.4.5	1.4.4	1.4.4	1.4.4	3.10.1	2.2.1
1.4.6	1.4.5	1.4.5	1.4.5	3.10.2	2.2.1
1.4.6	1.4.5	1.4.6	1.4.6	3.10.2	2.2.1
1.4.6	1.4.5	1.4.7	1.4.7	3.11.1	2.2.1
1.4.6	1.4.5	1.4.7	1.4.8	3.11.1	2.2.1

\*Note the VMS will require CDM8XX-1.3.3 device driver update package.

### Compatible SNMP MIBs

MIB Name	Filename	Date
CEFD Root	ComtechEFData.mib	2/15/2011
CDM-840 SNMP MIB	FW-0000407M_CDM840.mib	4/29/2013

## Known Issue(s) In This Release

- Defect #6925: Incoming traffic should be Qos'ed based upon uncompressed/LAN size. The Qos system should enforce Min and Max bandwidth restrictions based upon the LAN size. It will do this for Payload compression, but not Header Compression. Currently, the compressed packet size is used for Qos calculations.

*Workaround:* The user should offset the Qos bandwidth configuration based upon the post compression size/datarate when header compression is enabled.

- Defect 5848: IP Address return by tracer is incorrect  
The CDM-840 will return the value 169.254.0.1 as the IP address of the WAN interface when performing a tracer through the device.

*Workaround:* None

- Defect #xxxx: Some multicast configurations (IGMP v1/v2/v3), when toggled on and off can traffic flow anomalies to be observed. This occurs as a result of leaving the multicast groups too early, or inadvertently.

*Workaround:* Currently we have made the query interval configurable so customers can adjust this according to their networks requirements.