

CDD-880 Version 1.4.7 Release

Applicability
Bulk Release 1.4.7 (FW-0000423R) for the CDD-880. Includes all related firmware and SNMP MIBs.

Revision History		
Rev #	Description	Date
-	Initial Release version 1.1.1	8/12/10
A	Maintenance Release version 1.1.2	12/10/11
B	Maintenance Release version 1.2.3	1/19/11
C	Maintenance Release version 1.2.4	4/9/11
D	Feature Release version 1.2.5	9/15/11
E	Feature Release version 1.3.1	11/18/2011
F	Maintenance Release version 1.3.2	1/26/2012
G	Maintenance Release version 1.3.3	04/13/2012
H	Feature Release version 1.4.1	5/15/2012
J	Maintenance Release version 1.4.2	6/25/2012
L	Maintenance Release version 1.4.3	9/13/2012
M	Maintenance Release version 1.4.4	10/15/2012
N	Maintenance Release version 1.4.5	1/4/2013
P	Maintenance Release version 1.4.6	2/26/2013
R	Maintenance Release version 1.4.7	4/29/2013

FSCM No. 4J515

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Introduction

- Release 1.4.7 is a maintenance release.

Features

- None

Defect Fixes

- Defect# 8295: The CDD-880 will now cleanly boot with VMS/dSCPC messaging.
- Defect# 8483: CDD-880 demod symptoms associated with a degraded BER performs were resolved by changing the order of programming demod filtering parameters.

Network Upgrade Notes (from 1.4.x to 1.4.7 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 v1.4.7. Reboot the CDM-840s and verify traffic is passing.
3. Note: The CTOG-250/CDM-800 can be upgraded to the v1.4.7 release at any point during this process – there is no required order.

NOTE: When operating in dSCPC mode, in order to achieve optimal switching performance with v1.4.7, it is required that ACM be enabled for all active demods on the CDD-880. This will allow the CDD-880 to communicate lock status during dSCPC switches. It will not fully activate ACM on the return link until ACM is enabled on the CDM-840.

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 1.4.7 release)

When upgrading to version 1.4.7 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 1.4.7. 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.

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

*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
CDD-880 SNMP MIB	FW-0000424G_CDD880.mib	1/3/2013

Known Issue(s) In This Release

- Defect #7020:** Demod will lock to a different MODCOD. If a demod is in CCM mode and the symbol rate and frequency match, the CDD-880 demod will lock to any configured MODCOD from the CDM-840.
Workaround: None, there are no negative side-effects as traffic passes but the unit is just locks perhaps when it is not expected to.