A SUBSIDIARY OF COMTECH TELECOMMUNICATIONS CORP

FW-000010AR
Release 3.15.1

Software Release Notification

VMS 3.15.1 Software Release

Applicability
Vipersat Management System software release (FW-0000010AR) for networking IP modems. Includes all related software and client applications, ViperView.

Revision History		
Rev #	**Description**	**Date**
V	Release Version - 3.10.2.3033	01/11/2013
W	Release Version - 3.11.0.3172	03/11/2013
Y	Release Version - 3.11.1.3177	04/15/2013
AA	Release Version - 3.11.2.3194	05/27/2013
AB	Release Version - 3.11.3.3264	08/26/2013
AC	Release Version - 3.12.0.3462	01/24/2014
AD	Release Version - 3.12.1.3493	04/04/2014
AE	Release Version - 3.12.2.3554	08/01/2014
AF	Release Version - 3.12.3.3588	08/29/2014
AG	Release Version - 3.12.4.3657	02/13/2015
AH	Release Version - 3.13.0.3886	04/08/2015
AJ	Release Version - 3.12.5.3735	08/17/2015
AK	Release Version - 3.13.1.4263	10/23/2015
AL	Release Version - 3.13.2.4534	08/15/2016
AM	Release Version - 3.14.0.4889	01/23/2017
AN	Release Version - 3.14.1.4907	07/28/2017
AP	Release Version - 3.15.0.5489	07/31/2017
AR	Release Version - 3.15.1.5555	12/11/2017

FSCM No. 4J515

Table of Contents

Introduction

VMS Generation 3 version 15.1 is the 28th revision of the optimized dynamic bandwidth manager software. Comtech EF Data has continued to enhance the VMS on customer feedback and experience gained from using this network software. The changes in the 3.15.1 release are the result of real world implementations and customer applications.

NOTE: VMS FW-0000010AR does not contain Management Encryption Module. Please contact CEFD customer support for details on how to get this option.

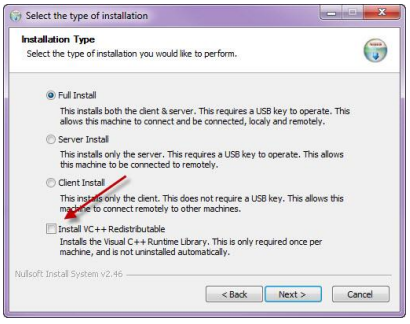
Features

H-DNA 45Msps Support

Software Installation / Upgrade Instructions

Refer to VMS Users Guide
Vipersat Management System
User's Guide, Manual MN/22156_r14_VMS, Chapter 2 – Installing VMS

Installation Precaution
This release of 3.15.1 may require a onetime supporting library update if updating from 3.12.x or older. As part of the installation process there is an option to "Install VC ++ Redistributable" files. It is **very important** that this onetime machine (system) update is accomplished before running 3.13.2. After update any subsequent releases will not require this selection. *Note during this update the installation process will take a longer time than normal.* ***Also, if it is unknown if this update was already applied, it will not harm the system if reapplied.***



WARNING ***If any previous versions of AdvVSAT or Heights device driver were installed, uninstall before upgrading to new installation. If there are new additional drivers, install after VMS. Note drivers must be installed with VOS service not running.***

Package Updates

This installation package includes the following component updates:

- VMS Core/Client v3.15.1.5555 (Installed Service & Client Application)
- VMS v3.15.1.5555 MIB Files
- 570/564 Parameter Editor (.dll) support v1.5.4.77 - v1.6.22.161 (HDLC WAN Framing only)
- 570AL/564AL Parameter Editor (.dll) support v1.3.1.159 - v1.5.2.170
- 5650A/NP Parameter Editor (.dll) support v1.4.0.57 - v1.11.2.152
- AdvVSAT/Heights Series Configuration Editor (.dll's) support (v1.5.2 – v1.7.1.1), (v2.1.1 – v2.5.x, v3.1.x)

Note all older parameter editor versions are currently supported in this release. All above noted editors are integral to this version of VMS software, however as newer version become available they are supported as external driver install updates. Contact PSO service department for installs when available.

Supported Devices

VMS version 3.15.1 includes support the following devices:

Device	Management
CDM-570/570L	Inband/OOB
CDM-570AL	Inband/OOB
CDD-564/564L/562L	Inband
CDD-564AL/562AL	Inband
SLM-5650A w/NP	Inband/OOB
SLM-5650AD w/NP	Inband/OOB
CTOG-250/CDM-800	Managed
CDM-840	Inband
CDD-880	Inband
HTO-1/HTX-450	Managed
HRX-16/64/Pro	Inband
H8/16/32/64/Pro	Inband
ROSS	Managed
CDM-600/600L	OOB
CDM-700	OOB
CDM-750	OOB
SLM-5650	OOB
CDM-625	OOB
CDM-625A	OOB
CDM-760	OOB
SENTRY AC Power Management CDU	Managed
APC Power Management PDU	Managed

List of Fixed Problems and Modifications

The following lists problems that were corrected in this release:

These corrections within this release are based on previous build versions, 3.15.0 an older.

ENG - #1454, reported in v3.15.0 (closed major defect: fixed)
NetVue Client could inadvertently set antenna visibility to 0Hz
Description
During configuration settings the antenna visibility could be set to 0Hz causing dynamic switching engine to stop allocating bandwidth for the remote.
Correction
If 0Hz visibility is passed through the NetVue to VMS interface it is rejected leaving the current values unchanged.

ENG - #1468, reported in v3.15.0 (closed major defect: fixed)
The server (VOS) could stall when trying to delete the last/only site in a H-DNA channel
Description
Removing a site through the NetVue client when it is the last remote left in the H-DNA channel will cause the interface between NetVue and VMS server to freeze.
Correction
Protection was added to handle this potential condition.

ENG - #1475, reported in v3.15.0 (closed major defect: fixed)
dSCPC switching recovery logic is not working
Description
If a dSCPC site stops communicate to the VMS and the inband status changes to “Disconnected” the recovery logic fails to recover the remote. Although, a manual revert will recover communications.
Correction
Corrected the recovery logic state error which was preventing automatic disconnect revert timer from triggering on disconnect.

ENG - #1476, reported in v3.15.0 (closed major defect: fixed)
Deleting last site in the inband list can cause a server crash
Description
Deleting the last remote from the managed list of device and the device is still visible in the client in some capacity (i.e. in the list of devices or the tree), the client may attempt to issue a read after delete causing an exception crashing the server.
Correction
Protection was added to handle this potential condition.

ENG - #1480, reported in v3.15.0 (closed major defect: fixed)
H-DNA channel stops working if Heights Remote Gateway modulator is made allocatable
Description
If an H-DNA HRG modulator is selected as allocatable that service area channel will not switch any remotes into the bandwidth pool.
Correction
Changed allocation logic to properly handle if a remote modulator is selected.

Version Compatibility

The following is the list of all fully compatible release versions:

MODEL	BASE MODEM VERSION	IP INTERFACE VERSION	TRANSEC	NOTES
NetVue		3.1.7		Northbound Manager
CDM-570/570L	1.6.19	(Ver-1) 1.6.23 (Ver-2) 2.6.23		Inband Unit Support
CDD-56x/56xL		1.6.23		Inband Unit Support
SLM-5650A	1.4.3	1.11.2	1.2.0	Inband Unit Support
CDM-570AL	1.5.2	1.5.2		Inband Unit Support
CDD-56xAL		1.5.2		Inband Unit Support
SLM-5650AD	1.4.3	1.11.2	1.2.0	Inband Unit Support
AdvVSAT Series		1.4.x – 1.7.1.1		Inband Unit Support
Heights Series		1.6.1 – 2.5.x		Inband Unit Support, HTO/HTX, HRX, H
Heights Series – HDNA		3.1.x		Inband Unit Support, HTO/HTX, HRX, H
ROSS		1.5.1.1113		Managed
CDM-600	2.3.1	CiM-25, 1.0.8		OOB Unit Support
CDM-600L	1.5.7	CiM-25, 1.0.5		OOB Unit Support
CDM-700	1.3.4	GBEI, 1.10		OOB Unit Support
CDM-625	2.2.4	1.3.6		OOB Unit Support
CDM-625A	1.4.1	1.4.9		OOB Unit Support
CDM-750		1.6.0		OOB Unit Support
CDM-760		1.2.11		OOB Unit Support

Note all older versions not listed are still supported but may not operate correctly with newer features. For additional compatibility questions of versions not listed, contact your local support representative.

Known Issue(s)

Functional

Accepted Functional Known Issues –

Ticket #1393 – NetVue interface, add VMS redundancy local IP address
Description:
The interface between NetVue and VMS does not provide redundancy IP address.
Workaround:
None

Ticket #1442 – System memory leak in dSCPC network
Description:
While operating a dSCPC configuration. The dSCPC leak rate is approximately 4KB per switch. H-DNA network configurations do not leak memory. *Recommend that dSCPC customer remain on 3.14.1 until leak is corrected in future release.*
Workaround:
None

Ticket #1456 – HRX global demodulator frequency range settings is only updated on initial unit registration
Description:
The base frequency range settings for the unit is set in the database upon initial detection, and modifying during runtime will not update the initial setting. The frequency range is used in the VMS for frequency visibly mapping and if changed would potentially disrupted switching.
Workaround:
If changing frequency range setting after initial detection, the operator can correct and update the database by un-allocating "Blocked" all demods associated with this unit and then re-allocating "Available" will correct the changed range. Another way, which is more disruptive, is to restart VOS. This cause the system to reevaluate the devices updating the frequency range amongst many other parameters.

Note for more detailed information on issues listed above please contact your Comtech EF Data representative.