



## **HX90 8.0.0 Release Notes**

**H48178**

**Build 8.0.0.32  
Revision A.01  
May 14, 2012**

**Hughes Network Systems LLC  
11717 Exploration Lane  
Germantown, Maryland 20876  
(301) 428-5500**

### **PROPRIETARY NOTICE**

All rights reserved. This publication and its contents are proprietary to Hughes Network Systems, LLC. No part of this publication may be reproduced in any form or by any means without the written permission of Hughes Network Systems, LLC, 11717 Exploration Lane, Germantown, Maryland 20876.  
Copyright © 2012 Hughes Network Systems, LLC

## REVISION HISTORY

<b>Document Revision</b>	<b>Release #</b>	<b>Date of Issue</b>	<b>Author</b>	<b>Scope</b>
A.01	8.0.0.32	May 14, 2012	S. Fahey	Updates for 8.0.0.32

---

# Table of Contents

<b>1</b>	<b>RELEASE DETAILS</b>	<b>1</b>
<b>1.1</b>	<b>Release Contents</b>	<b>1</b>
1.1.1	What's New in this Release	1
<b>1.2</b>	<b>Reference Documents</b>	<b>5</b>
<b>1.3</b>	<b>Dependencies</b>	<b>6</b>
<b>1.4</b>	<b>Prerequisites</b>	<b>7</b>
1.4.1	3 <sup>rd</sup> Party Software	7
1.4.2	3 <sup>rd</sup> Party Hardware	7
1.4.3	MIBS	7
<b>1.5</b>	<b>Performance Characteristics</b>	<b>7</b>
1.5.1	Startup time	7
1.5.2	Inroute/Outroute Performance	8
<b>1.6</b>	<b>Resolved Issues</b>	<b>8</b>
1.6.1	Resolved in this release	8
<b>1.7</b>	<b>Known Issues and Workarounds</b>	<b>9</b>
<b>1.8</b>	<b>Outstanding Issues</b>	<b>9</b>
<b>2</b>	<b>INSTALLATION</b>	<b>10</b>
<b>2.1</b>	<b>Roadmap for installation</b>	<b>10</b>
<b>2.2</b>	<b>Fresh Install</b>	<b>10</b>
<b>2.3</b>	<b>Upgrade Install</b>	<b>10</b>
<b>2.4</b>	<b>Fallback Steps</b>	<b>10</b>
<b>2.5</b>	<b>Configuration Steps</b>	<b>10</b>
2.5.1	Important Configuration Notes for This Release	10
<b>2.6</b>	<b>Troubleshooting Tips</b>	<b>11</b>
2.6.1	Diagnostics	11
2.6.2	No Browsing due to Turbo Page Server issue	11
<b>2.7</b>	<b>GUI Updates Since Release 6.5.0</b>	<b>11</b>

---

## Table of Tables

<b>Table</b>	<b>1-1.</b>	<b>New</b>	<b>or</b>	<b>Enhanced</b>	<b>Features</b>
					.....Error
	! Bookmark not defined.				
<b>Table 1-2. Referenced Documents</b>					<b>5</b>
<b>Table 1-3. Dependencies</b>					<b>6</b>
<b>Table 1-4. MIBS</b>					<b>7</b>
<b>Table 1-6. Resolved SPRs since 6.11.0.4</b>					<b>8</b>
<b>Table 1-7. Previously Resolved SPRs</b>					<b>9</b>
<b>Table 1-7. Outstanding SPRs</b>					<b>9</b>

---

# 1 RELEASE DETAILS

## 1.1 RELEASE CONTENTS

The following package consists of release notes and installation procedures for the Release 8.0.0 of HX90 terminals. The terminal release is part of the overall HX System Release 4.0 Refer to HX System 4.0 Release Notes (H48180) for more information on features introduced in this release and the dependencies.

### 1.1.1 What's New in this Release

**IPv6:** This feature allows the HX System to support IPv6 on the customer facing interfaces of the system i.e. the Enterprise and the Remote LAN segments. With implementation of this feature, the HX200 and the IPGW are now capable of talking to IPv6 devices (hosts, routers) on their local LAN segments and the customer network/Internet and sending IPv6 traffic across the spacelink. Refer to the IPv6 Feature Release Notes document (H47655) for more details.

## Supported Features

Listed below are the other features (*alphabetically ordered within each group*) that are supported in this release.

Subsystem/Feature Name	Codes <sup>+</sup>	Restrictions	Mode <sup>%</sup>	Reference Document#
<b>General</b>				
Automatic Global Resource Allocation (AGRA)	GRP	No	IR, LR	H34952
DW7000 Rescue Button	N/A	No	IR, LR, RO	H33070
End-to-End VLAN Propagation, Phase 1.5 and 2	VLAN	No	IR, LR	H39291
Efficient VSAT Polling	VIP, EVP	No	IR, LR	6003878
Events	EVT	No	IR, LR, RO	H30592
Fallback update Over the Air (FOA), Terminal Configuration Update (FOA Phase II)	N/A	No	IR, LR, RO	H34535
Improved Billing Lock/Unlock	N/A	No	IR, LR	H35569
LAN Return and Receive Only Mode of Operation	N/A	No	N/A	H38106, H38107
PCI Compliance	N/A	No	IR, LR, RO	None
Radius Authentication for Telnet and FTP access	N/A	No	IR, LR, RO	H38596
Rescue Button	N/A	No	IR, LR, RO	H33070
Self-Hosted VSAT API support	N/A	No	IR, LR, RO	H31034
SNMP Trap Forwarding Feature	N/A	Yes	IR, LR	H32687
Spacelink Up/Down Enhancement	N/A	No	IR	H29487, H34938
Terminal Re-Branding	N/A	N/A	IR, LR, RO	H30583
VSAT/Appliance Management over Satellite	N/A	No	IR, LR, RO	H35569
Web Interface, with Password Protection	N/A	No	IR, LR, RO	H30583
<b>Outroute/Receiver Features</b>				
DVBS2/ACM Support	N/A	No	IR, LR, RO	H34992
Geographic NOC Switchover Enhancement	N/A	No	IR, LR, RO	None
Low Symbol Rate Support	N/A	No	IR, LR, RO	H31476
NOC Diversity	N/A	No	IR, LR	H34938
Outroute (RBP) Header Compression	OHC	No	IR, LR	H35585
Secondary Outroute (NetSwitch)	N/A	No	IR, LR, RO	H30010
<b>Inroute/Transmitter Features</b>				
Adaptive (Open Loop) Inroute System	ACSP	No	IR	H33226
CBR Return Channel Enhancement required for DW6040 VBD support	DIRT, SHOUT	No	IR	H32116
Closed Loop Power	ICLPT	No	IR	H34735
Closed Loop Timing	ICLPT	No	IR	H34734
Dedicated Inroute Bandwidth	DIRT	No	IR	H34121
Extended KU-Band Support	N/A	No	IR	H32493
Generalized Load Balancing	N/A	No	IR	H35350
High Speed/Turbo Coded Inroutes	N/A	No	IR	H34121
IFL Diagnostics	N/A	Yes <sup>^</sup>	IR	H34874
Inroute Header Compression	N/A	No	IR	H34121
Inroute Prioritization (including DSCP support and CBR traffic handling)	DIRT	No	IR	H30008
Low Power Idle Mode	N/A	No	IR	H33375
On-Demand Streaming	DIRT	No	IR	H36753

	Rain Fade Rate Fallback	N/A	No	IR	H30489
	Remote Site Originated Multicast	DIRT	No	IR	H36752
	Scalable IQOS	N/A	No	IR	H34121
	Selective Bit Rate Control	N/A	Yes	IR	H32494
	Single Rate Ranging	ICLPT	No	IR	H34735
<b>Diagnostics</b>					
	CPU Monitoring	N/A	No	IR, LR, RO	H32680
	LAN Receive Traffic Monitor – Port (TCP/UDP) based	N/A	No	IR, LR, RO	H35008
	LAN Receive Traffic Monitor – IP Address based	N/A	No	IR, LR, RO	H35008
	Packet Dump	N/A	No	IR, LR, RO	H34120
	Terminal Diagnostics with Automated Reporting	N/A	No	IR, LR, RO	H35008
<b>LAN Features</b>					
	LAN Health Monitor	N/A	No	IR, LR, RO	H32914
	VLAN Tagging	VLAN	No	IR, LR, RO	H30582
	Virtual Router Redundancy Protocol (VRRP)	N/A	No	IR, LR	H36007
<b>IP Routing Features</b>					
	Dynamic Routing	VIP, DYNRT	No	IR, LR	6003878
	Border Gateway Protocol (BGP4)	VIP, DYNRT	No	IR, LR	H37285
	Policy Based Routing (PBR)	FIRE	No	IR, LR	H30581
	RIP/BRP Default Route	VIP, DYNRT	No	IR, LR	6003878
<b>IP Stack/Services Features</b>					
	DHCP Relay, including simultaneous operation with DHCP Server	DHCP	Yes	IR, LR	H30001
	DHCP Server with Memory Optimization and simultaneous operation on both LAN ports	DHCPS	No	IR, LR, RO	H30001
	DHCPS/NAT Local Configuration	DHCPS, NAT,NPR	Yes	IR, LR	H33989
	DNS Caching	DNS	No	IR, LR	H28669
	IGMP – v1, v2, v3	N/A	No	IR, LR, RO	H35568
	IPSEC	IPSEC	No	IR, LR	H33272
	NAPT and Routing	NPR	No	IR, LR	H30584
	NAT including Port Forwarding (aka Inbound Port Mapping) , PPTP and IPSEC ALG, Simultaneous enabling on both LAN ports	NAT, NPR	No	IR, LR	H30172
	NAT – Local configuration of Port Forwarding (aka Inbound Port Mapping)	NAT, NPR	No	IR, LR	H30172, H30583
<b>Firewall</b>					
	Access Control List	FIRE	No	IR, LR, RO	H30581
	Fenced Internet	FIA	No	IR, LR	H31637
	MAC Address White List	FIRE	No	IR, LR, RO	H30581
	Virus Protection	FIRE	No	IR, LR, RO	H30170
<b>Acceleration Features</b>					
	PEP – RBP/PEPv3.5 (including DSCP Support)	PEP, PEPTS	No	IR, LR	H30006
	Turbo Page including STSB (Simple Transparency SSL Bridging), PCSB (Proxy Compatible SSL Bridging), Client IP Forwarding, MTG and Bulk Upload/Download Bypass	TPC, NTS, DNS	No	IR, LR	H34975
<b>Installation/Commissioning</b>					
	Dial-up Commissioning	N/A	No	IR, LR, RO	H30005
	Easy Accessibility to Remote	N/A	No	IR, LR, RO	H30003

	Mixed LNB	N/A	No	IR, LR, RO	H38766
	Regional ACP	N/A	No	IR	None
	Robust Parameter Update	N/A	No**	IR, LR, RO	H32130
	Satellite Based Commissioning	N/A	No	IR	H29241, H29514
	SDL Enhancements	N/A	No	IR, LR	H32130
	Web Interface based Manual Commissioning	N/A	No	IR, LR, RO	H33181

!!!Not yet qualified.

\*UEM support is only via Advanced Parameters for Vision UEM 6.2.1 and earlier.

+ UEM codes are the Feature Set values that define the features supported by a software profile

\*\*SDL must be on. This feature is enabled by default and should not be used if SDL is not available.

If SDL is not available, an empty file 'nouem.dat' should be added to /cfg0/ directory.

N/A implies that no Feature code is required for enabling this feature.



## 1.2 REFERENCE DOCUMENTS

Listed below are documents that are referenced within this document. If no revision or date is specified the latest version should be referenced.

**Table 1-1. Referenced Documents**

<b>Doc. Number</b>	<b>Title</b>
1039456 -0001	HX90 Satellite Router Installation Guide
1039457 -0001	HX90 Satellite Router User Guide
6003878	Direcway Dynamic Routing Operations Guide
H24590	Universal Antenna Pointing Signal Quality Factor (uSQF) Data Sheet
H28223	PEPv3/v3.5/Turbo Page/Inroute Prioritization Recommended Configuration
H28669	Direcway DNS Caching Release Notes
H29241	DIRECWAY VSAT Satellite Based Commissioning Release Notes
H29514	Self-hosted Adapter Swap using Satellite Based Commissioning – Datasheet
H30001	DIRECWAY Terminal DHCP Server Release Notes
H30003	DIRECWAY Terminal Easy Accessibility Release Notes
H30006	DIRECWAY Terminal PEPv3 Release Notes
H30008	DIRECWAY Inroute Prioritization, CBR Traffic and PEP Flow Control Release Notes
H30010	DIRECWAY Terminal Secondary Outroute Release Notes
H30147	DIRECWAY VSAT VLAN Tagging Datasheet
H30170	DIRECWAY Terminal Virus Protection Release Notes
H30172	DIRECWAY Terminal NAT Implementation Release Notes
H30489	DIRECWAY Rain Fade Fallback Release Notes
H30581	HN System Terminal Policy Feature Release Notes
H30582	DIRECWAY Terminal VLAN Tagging Release Notes
H30583	Web Interface Release Notes
H30584	NAPT and Routing Release Notes
H30592	Direcway VSAT Events Feature Release Notes
H31034	HNS Self-Hosted VSAT Interface Specification
H31476	DIRECWAY Low Symbol Rate Support Release Notes
H31637	DIRECWAY Terminal Fenced Internet Access Release Notes
H32119	DiRECWAY Terminal Status Codes
H32130	DIRECWAY SDL Release Notes
H32492	DIRECWAY Automatic Ranging Release Notes
H32493	DIRECWAY Extended KU Band for In-Routes Datasheet
H32494	DIRECWAY Selective Bit Rate Control Datasheet
H32680	DIRECWAY Terminal CPU Monitoring Release Notes
H32687	DIRECWAY Terminal SNMP Implementation Release Notes
H32691	DW7000 Open Loop Power Control Data Sheet
H32741	DW7000 Network Features
H32914	DIRECWAY LAN Configuration and Health Monitor Release Notes
H33034	DW7000 User Bit Rate
H33070	DW7000 The Rescue Button Release Notes
H33226	DW7000 AIS Release Notes
H33272	DIRECWAY Site-to-Site IPSEC Encryption Release Notes
H33375	DIRECWAY Low Power Idle Mode Release Notes
H33989	DIRECWAY DHCPs/NAT Local Configuration Release Notes
H34120	DIRECWAY Terminal Packet Dump Release Notes
H34121	DIRECWAY Terminal Supported Inroutes Release Notes

<b>Doc. Number</b>	<b>Title</b>
H34535	DIRECWAY Terminal Fallback update Over the Air Release Notes
H34734	Closed Loop Timing Feature Release Notes
H34735	Closed Loop Power Control, Adaptive In-route Selection, Single Rate Ranging Feature Release Notes
H34874	HN7000S IFL Diagnostics Release Notes
H34938	HUGHES Terminal NOC Diversity Release Notes
H34952	Terminal Automatic Global Resource Allocation Release Notes
H34992	DVBS2 ACM Feature Release Notes
H35008	Diagnostics Feature Release Notes
H35350	Generalized Load Balancing Release Notes
H35568	HN System Terminal Multicast Implementation Release Notes
H35569	HN System Terminal/Appliance Management Over Satellite
H35585	HN System Outroute Header Compression Release Notes
H36007	HN System Terminal VRRP Release Notes
H36752	HN System Remote Site Originated Multicast Release Notes
H36753	HN System On-Demand Streaming Release Notes
H37285	HN System BGP4 Implementation Release Notes
H38106	HN System LAN-Return Mode Terminal Release Notes
H38107	HN System Receive-Only Mode Terminal Release Notes
H38426	HN System IP Payload Compression for UDP Packets Release Notes
H38596	HN System Radius Client Feature Release Notes
H38766	Mixed LNB Feature Release Notes
H39082	TurboPage 5.7.1 Installation and Operations Manual
H39291	HX/HX System End-to-End VLAN Propagation Release Notes
H39294	Enterprise Disaster Recovery Release Notes
H40464	HN System CAX Feature Release Notes

### 1.3 DEPENDENCIES

In the table below are the required HX System software components necessary to fully utilize this release. The build number represented by the last digit may be the latest release at the time of testing; however, if a later build is available its use is recommended. For example, a 5.0.0.7 version would be recommended over a 5.0.0.6 version of a component.

**Table 1-2. Dependencies**

<b>Platform</b>	<b>Version Dependency</b>
IP Gateway	Release 7.1.0.9 or higher
ExpertNMS	Release 7.6.1.16 or higher
CAC	Release 7.0.1.0 or higher
MFS	Release 7.0.1.0 or higher
WebACS/ACSLite	Release 7.1.1.0 or higher
DVBS2ACMGW	Release 7.0.0.3 (ACM) or higher
SGM	Release 7.3.0.4 or higher
CDS	Release 7.1.1.9 or higher
DNCC	Release 7.2.0.6 or higher
DW7000 Timing Unit	Release 5.6.0.34 or higher
SSGW	Release 5.6.1.2 or higher
ACP Server	Release 5.3.0.3 or higher

Turbo Page Server	Release 7.0.0.37 or higher
Directway Installer	Release 4.0.21.11 or higher. Release 4.2.1.3 or higher is required for the Mobile Antenna Support feature.
DNS Cache Loader	Release 4.2.0.11 or higher

## 1.4 PREREQUISITES

### 1.4.1 3<sup>rd</sup> Party Software

N/A

### 1.4.2 3<sup>rd</sup> Party Hardware

N/A

### 1.4.3 MIBS

The following MIB versions (*organized alphabetically by MibVer Variable Name*) are supported by this software release

**Table 1-3. MIBS**

MIB Name	MIB File Name	Rev	MibVer Variable
BGP4 MIB	bgp4.my	1.07	bgpAdminMibVersion
CAX MIB	cax.my	1.04	caxMibVersion
DIRECWAY Events MIB	events.my	1.2	eventsMibVersion
IPCOMP MIB	ipcomp.my	1.05	ipCompAdminMibVersion
DIRECWAY IPSEC MIB	ipsec.my	1.15	ipsecMibVersion
DirecWay Multimedia Network ACM MIB	mmacm.my	1.05	acmAdminMibVersion
DirecWay Multimedia Network AIS MIB	mmais.my	1.03	aisAdminMibVersion
DIRECWAY Multimedia Network Common MIB	mmcommon.my	3.8	mmCommonMibVersion
Direcway Element Trap MIB	mmdirecwaytraps.my	1.23	N/A
DIRECWAY DNS Caching MIB	mmdnscache.my	1.12	dnsCacheMibVersion
DIRECWAY Multimedia Network NAT MIB	mmnat.my	1.0	natMibVersion
Hughes OHC MIB	mmohc.my	1.5	ohcMibVersion
DIRECWAY Multimedia Network PEP MIB	mmpep.my	1.22	mmPepMibVersion
DIRECWAY Multimedia Network VIP MIB	mmvip.my	1.11	mmVipMibVersion
DIRECWAY Multimedia Network VSAT MIB	mmvsat.my	2.56	vsatMibVersion
DIRECWAY Routing MIB	routing.my	1.6	routingMibVersion
DIRECWAY Transport MIB	shannon.my	1.43	shannonAdminMibVersion
DIRECWAY Network SSL MIB	sslb.my	1.4	sslbMibVersion
DIRECWAY TCP Layer 4 MIB	tcpl4.my	1.13	tcpl4MibVersion
DIRECWAY Turbo Page MIB	tpc.my	2.12	tpcMibVersion

## 1.5 PERFORMANCE CHARACTERISTICS

### 1.5.1 Startup time

Nominal time from power up to RX tuner lock is approximately 30-45 seconds.

### 1.5.2 Inroute/Outroute Performance

- Data Transfer Rates (bps) as follows – Assuming uncompressible 1400 byte Data Packets

Out-Route Download		
TCP	15Mbps	<ul style="list-style-type: none"> <li>Assumes high capacity outroute (45Msps 8Psk)</li> <li>CPU Utilization does not exceed 80%</li> <li>Each test performed individually                             <ul style="list-style-type: none"> <li>No excess traffic on inroute</li> <li>No additional traffic on outroute</li> </ul> </li> </ul>
UDP	45Mbps	
Multicast	60Mbps	

In-Route Upload		
TCP	3.2Mbps	<ul style="list-style-type: none"> <li>Assumes high capacity In-route (2Msps Rate 9/10, and packet size = 1000 bytes)</li> <li>CPU Utilization does not exceed 80%</li> <li>Each test performed individually                             <ul style="list-style-type: none"> <li>No excess traffic on Outroute</li> <li>No additional traffic on In-route</li> </ul> </li> </ul>
UDP	3.2Mbps	
Multicast	3.2Mbps	

Simultaneous In-Route/ Out-Route			
TCP	Out-Route	10Mbps	<ul style="list-style-type: none"> <li>Assumes 2Msps Rate 4/5 In-route</li> <li>Assumes 45Msps 8PSK Out-route</li> <li>CPU Utilization 100%</li> <li>Inroute and Outroute simultaneous traffic</li> </ul>
	In-Route	2Mbps	
UDP	Out-Route	40Mbps	
	In-Route	2Mbps	

- Packet Switching Rates (pps) as follows – Assuming uncompressible 60 byte Data Packets

Packet Switching Rate			
UDP – In single direction	Out-Route	5000pps	CPU Utilization 80%
	In-Route	1250pps	
UDP – Simultaneous bi-directional traffic	Out-Route	1250pps	
	In-Route		

## 1.6 RESOLVED ISSUES

### 1.6.1 Resolved in this release

The following issues are resolved in this release. This list includes all issues which were detected in the launch, beta, or production that have been resolved since Release 6.11.0.4

**Table 1-4. Resolved SPRs since 6.11.0.4**

Trouble Ticket #	SPR#	Title	Release No.
------------------	------	-------	-------------

		None	
--	--	------	--

**Table 1-5. Previously Resolved SPRs**

Trouble Ticket #	SPR#	Title	Release No.
		None	

## 1.7 KNOWN ISSUES AND WORKAROUNDS

This section identifies the known operational limitations and issues with this release. Please consult the individual feature release notes for other information that may be pertinent to that feature.

1. Tuner/Demod Characteristics: Lock times may be longer for symbol rates below 5 Msps.
2. Make sure the NOC sends correct PSI on all transponders. The DNCC and Data Program numbers can be configured as zero in case the typical PIDs (40000 and 20500 respectively) are used.
3. You may need to disable the Customer Recoverable IP Address feature in certain cases. Reference H30003 (DIRECWAY Terminal Easy Accessibility Release Notes).
4. UDP packets' checksums get set to 0 (zero) if UDP header compression is enabled. This is expected behavior with DNCC version 4.0.3.x and higher.

## 1.8 OUTSTANDING ISSUES

Provided below are the outstanding issues with this release.

**Table 1-6. Outstanding SPRs**

Trouble Ticket #	SPR#	Title
		None

## 2 INSTALLATION

For site installation of a HX90 unit refer to the [HX Series Installation Guide](#) for detailed installation procedures. Refer to the [HX90 User Guide](#) for details regarding the operation of the HX90

The following sections describe installation of the HX VSAT software into the ExpertNMS.

### 2.1 ROADMAP FOR INSTALLATION

The following sections are provided:

- Fresh Install
- Upgrade Install
- Fallback Steps
- Troubleshooting Tips

### 2.2 FRESH INSTALL

1. If using a CD, load CD containing the MM\_HX90\_8.0.0.32 file into the Vision EMS. Skip step 2.
2. Otherwise, download the zipped file for the HX90 Release 8.0.0.32 from the Release Center site. Use WinZip to extract the HX90\_8.0.0.32 image and transfer it to the Vision EMS.
3. Copy the MM\_HX90\_8.0.0.32 file to \remote\_releases\MM\_HX90\_8.0.0.32.
4. Using the Profiles screen, change the remote software profiles to point to this file.
5. Press OK.

### 2.3 UPGRADE INSTALL

Same as Fresh Install.

### 2.4 FALLBACK STEPS

Follow the same steps as described for Fresh Install using a previous software release.

### 2.5 CONFIGURATION STEPS

See the individual feature release notes for details regarding configuration.

#### 2.5.1 Important Configuration Notes for This Release

1. For Enabling LPDC Inroute encoding, please refer to LPDC Feature Release Notes (H42199).
2. For PEP and Turbo Page configuration guidelines see (H28223).
3. For important configuration information regarding terminal software upgrades (H32130).
4. Modifications to the bit rate mask should always be tested on a co-located remote before deploying to larger population. Improper setting of this parameter could result in remotes becoming isolated and unable to transmit. For proper settings please refer to (H32494).
5. The following release identification information is displayed by clicking the System Info button after browsing to the main web page at default IP address 192.168.0.1.

Software Date: May 11 2012, 14:44:53
Software Release: 8.0.0.32

## **2.6 TROUBLESHOOTING TIPS**

### **2.6.1 Diagnostics**

Please refer to the Diagnostics Release Notes for details on using this feature for troubleshooting common issues.

### **2.6.2 No Browsing due to Turbo Page Server issue**

This release contains a troubleshooting tool for users having “no browsing” issues. In case, a no-browsing issue is detected and the user can access the System Control Center and do “secure browsing” and the Connectivity Test works successfully, the user should be instructed to go to the Advanced Page and click on the “Turbo Page->Advanced Cfg” link in the left menu bar. Then, the user should be told to ensure that “Auto-Select Turbo Page Server” option is selected and then click on the “Tear down Turbo Page Connection” button. Then, the user should be told to retry browsing and if the issue was due to Turbo Page server, browsing should work now.

Note: The Turbo Page configuration link also contains two other options – “Use Current Turbo Page Server” and “Use the specified Turbo Page Server”. If the latter is selected, the IP Address and Port Number (typically port 86 – but depends on Turbo Page Server configuration) must be specified and in such a case, a bold [S] is added to the Web Acceleration Status message on the Main Page.

## **2.7 GUI UPDATES SINCE RELEASE 6.5.0**

1. Main Page updates:
  - None
2. Advanced Page updates:
  - Multiple updates for E2EVLAN Phase2. Refer to (H39291) for more details.