

# ATCA-7150 BBS on Centellis 2000

Release Notes

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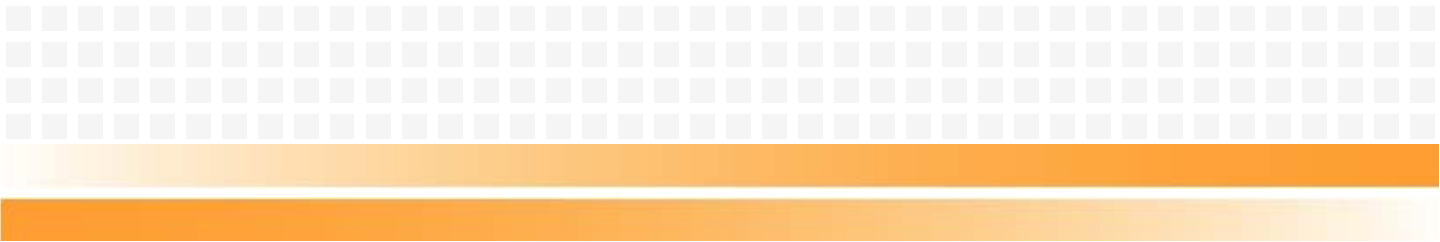
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# Contents

<b>About this Manual .....</b>	<b>7</b>
<b>1 Overview .....</b>	<b>11</b>
1.1 Introduction .....	11
<b>2 Content of the Release .....</b>	<b>13</b>
2.1 Hardware Content .....	13
2.2 Software Content .....	13
2.3 Features .....	17
2.4 Known Issues .....	18
2.5 Resolved Issues .....	19
<b>A Related Documentation .....</b>	<b>27</b>
A.1 Emerson Network Power - Embedded Computing Documents .....	27



# List of Tables

Table 2-1	ATCA-7150 BBS on Centellis 2000 CD Contents .....	13
Table 2-2	ATCA-7150 Software top level directories Description .....	14
Table 2-3	Packages/Files Under Directory disk .....	14
Table 2-4	Packages/Files Under Directory ramdisk .....	16
Table 2-5	Packages/Files Under Directory utils (Applicable to Run on Host System Only) .....	17
Table 2-6	Known Issues .....	18
Table 2-7	Resolved Issues in Build 1.0.11 .....	19
Table 2-8	Resolved Issues in Build 1.0.12 .....	21
Table 2-9	Resolved Issues in Build 1.1.1 SP1 .....	22
Table 2-10	Resolved Issues in Build 1.1.2 SP2 .....	23
Table 2-11	Resolved Issues in Build 1.1.3 SP3 .....	25
Table A-1	Related Documents .....	27



# About this Manual

## Overview of Contents

This document refers to the Service Pack 3 Release 1.1 of AdvancedTCA blade ATCA-7150 BBS on Centellis 2000 using PNE 2.0 Service Pack 4. This release is verified on Centellis 2000 reference platform. Read it carefully before installing and using it.

This manual is divided into the following chapters and appendix.

- [Chapter 1, Overview, on page 11](#)
- [Chapter 2, Content of the Release, on page 13](#)
- [Appendix A, Related Documentation, on page 27](#)

## Abbreviations

This document uses the following abbreviations:

Abbreviation	Definition
BBS	Basic Blade Services
BIOS	Basic Input Output System
CGL	Carrier Grade Linux (OSDL specification, PNE 2.0 uses CGL 4.0.1)
EDAC	Error Detection And Correct - kernel module for low-level errors that are reported in the CPU or supporting chipset or other subsystems
FCU	Firmware Upgrade Utility of BBS
FPGA	Field-Programmable Gate Array
GA	General Availability
HPM	Hardware Platform Manager
LHC	Link Health Check
PNE LE	Platform for Network Equipment Linux Edition (a WindRiver Linux variant used for Network Equipments following CGL specification)
SDR	Sensor Data Record
SOL	Serial Over Lan

## Conventions

The following table describes the conventions used throughout this manual.

Notation	Description
0x00000000	Typical notation for hexadecimal numbers (digits are 0 through F), for example used for addresses and offsets
0b0000	Same for binary numbers (digits are 0 and 1)
<b>bold</b>	Used to emphasize a word
Screen	Used for on-screen output and code related elements or commands in body text
<b>Courier + Bold</b>	Used to characterize user input and to separate it from system output
<i>Reference</i>	Used for references and for table and figure descriptions
File > Exit	Notation for selecting a submenu
<text>	Notation for variables and keys
[text]	Notation for software buttons to click on the screen and parameter description
...	Repeated item for example node 1, node 2, ..., node 12
.	Omission of information from example/command that is not necessary at the time being
..	Ranges, for example: 0..4 means one of the integers 0,1,2,3, and 4 (used in registers)
	Logical OR





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# Overview

## 1.1 Introduction

This document refers to the Service Pack 3 Release 1.1 of AdvancedTCA blade ATCA-7150 BBS on Centellis 2000 using PNE 2.0 Service Pack 4. This release is verified on the Centellis 2000 reference platform. Read the Release Notes carefully before installing and using it.



# Content of the Release

## 2.1 Hardware Content

This Release Notes is applicable to the following blades:

Item Number	Blade	Description
8206845A01B	ATCA-7150	This is AdvancedTCA blade with software contents including kernel, Root File System, Firmware Images (BIOS, IPMI,SOL,SDR, FPGA), BBS packages (HPM, FCU, LHC) and HPI-B client packages.

You need to separately procure platform for using this blade release. As a reference platform following are used for software release and referred in user documentations.

- C2000 as Shelf
- M100 as Shelf Manager

## 2.2 Software Content

The BBS package can be downloaded from a server or the CD provided from manufacturing. The BBS package contains the following.

*Table 2-1 ATCA-7150 BBS on Centellis 2000 CD Contents*

File	Description
Centellis2000_7150_REL1.1_BUILD1.1.3.tar.bz2	Software binaries tar zipped file
6806800J74C_ATCA_7150_BBS_SP3_RN.pdf	Release notes giving release details snapshot
6806800H96D_ATCA_7150_Workbench_Integration_UG.pdf	User Guide for Integration of workbench on ATCA-7150 using LSP workbench layer
6806800G56F_ATCA_7150_BBS_PR.pdf	ATCA-7150 BBS Programmer's guide

The BBS binaries tar file `Centellis2000_7150_REL1.1_BUILD1.1.3.tar.bz2` contains the following directories:

*Table 2-2 ATCA-7150 Software top level directories Description*

Directory Name	Description
disk	This directory contains files for disk based installation on target ATCA-7150.
ramdisk	This directory contains files for ramdisk based booting on target useful for diskless ATCA-7150 configuration.
utils	This directory contains utilities required on host machine for using some of the features supported by ATCA-7150 software.

The following tables provide contents of packages under different directories:

*Table 2-3 Packages/Files Under Directory `disk`*

File/Package Name	Description
<code>files.sha1sum</code>	Contains list of packages with their checksum. During network based disk blade installation, a script downloads and validates all the packages in the list.
<code>kernel</code>	Kernel binary
<code>rootfs.tar.bz2</code>	Root File System
<code>modules.tar.bz2</code>	Kernel modules for <code>rootfs</code>
<code>minrootfs.cpio.gz</code>	Installation <code>rootfs</code> (used only for disk installation)
<code>bsp.tar.bz2</code>	Windriver Linux PNE 2.0 (SP4) based LSP layer for customized ATCA-7150 kernel builds
<code>configs</code> (directory)	<p>Contains the following partition layout configuration files:</p> <ul style="list-style-type: none"> <li>● <code>partition_layout_8_16</code></li> <li>● <code>partition_layout_16_28</code></li> <li>● <code>partition_layout_28</code></li> <li>● <code>local</code></li> <li>● <code>fs_config</code></li> </ul> <p>Details of above files are described in <i>Basic Blade Services Software on ATCA-7150 Programmer's Reference</i>.</p>

Table 2-3 Packages/Files Under Directory `disk` (continued)

File/Package Name	Description
<code>patch_files.tar.bz2</code>	Patches on top of root file system used for overriding default configuration for services given as part of default root file system.
<code>extra_pkgs.tar.bz2</code>	Additional rpm packages to be installed on top of default root files system. This can be used for providing layer customized for application developed on top of BBS platform.
<code>initrd-ext.cpio.gz</code>	Initial ramdisk image to support booting from the USB drive.
<code>initrd-ext.dump.cpio.gz</code>	Initial ramdisk image to support booting from the USB drive for dump kernel.
<code>pxelinux.0</code>	pxe binary to be used for PXE boot
<code>pxelinux.cfg/default</code>	Default pxe configuration to be used for PXE boot
<code>bbs-atca7150-bios-V023.rpm</code>	BIOS image file in FRI format
<code>bbs-atca7150-ipmc-5.28.00.rpm</code>	IPMC firmware image
<code>bbs-atca7150-fpga-007.rpm</code>	FPGA firmware image
<code>bbs-atca7150-sdr-5.28.rpm</code>	SDR and FRU image
<code>bbs-atca7150-mezzanine-1.07.rpm</code>	SOL firmware image
<code>bbs-atca7150-upgtools-6.rpm</code>	Firmware upgrade tools Linux. It should be only used if BBS Firmware Command-line Utilities (FCU) is not available.
<code>bbs-fuf-atca7150-1.3.10-4-pne.rpm</code>	BBS FCU package
<code>bbs-hpmagentcmd-i586-1.3.17-2-pne.rpm</code>	BBS Hardware Platform Manager (HPM) package
<code>bbs-lhc-atca7150-1.2-1-pne.rpm</code>	BBS Link Health Check (LHC) package
<code>bbs-hpib-1.20.11-1.x86-wrspne2.0-linux.rpm</code>	HPI-B client 32-bit library package

*Table 2-3 Packages/Files Under Directory `disk` (continued)*

File/Package Name	Description
<code>bbs-hpib-1.20.11-1.x86_64-wrspne2.0-linux.rpm</code>	HPI-B client 64-bit library package
<code>bbs-hpib-devel-1.20.11-1.x86-wrspne2.0-linux.rpm</code>	Package contains header files and libraries for HPI-B used for development of 32-bit HPI-B client. This is part of host development toolkit.
<code>bbs-hpib-devel-1.20.11-1.x86_64-wrspne2.0-linux.rpm</code>	Package contains the header files and libraries for HPI-B used for development of 64 bit HPI-B client. This is part of host development toolkit.
<code>bbs-hpib-clientsrc-1.20.11-1.x86-wrspne2.0-linux.rpm</code>	Package contains client sources as part of development toolkit for 32-bit application. This is part of host development toolkit.
<code>bbs-hpib-clientsrc-1.20.11-1.x86_64-wrspne2.0-linux.rpm</code>	This contains client sources as part of development toolkit for 64-bit application. This is part of host development toolkit.
<code>rpms_pkgs_remove_list</code>	Lists the rpms that needs to be removed at the time of installation. You can use this to customize the rootfs.
<code>kmod_build_src.tar.bz2</code>	You can build external modules by using this Kernel-source-trimmed down for customization.

*Table 2-4 Packages/Files Under Directory `ramdisk`*

File/Package Name	Description
<code>kernel</code>	Contains list of packages with their checksum. During network based disk blade installation, a script downloads and validates all the packages in the list.
<code>initramfs.cpio.gz</code>	Ramdisk based root file system used for diskless blade.
<code>pxelinux.0</code>	pxe binary to be used for PXE boot.
<code>pxelinux.cfg/default</code>	Default pxe configuration to be used for PXE boot.



Table 2-5 Packages/Files Under Directory *ut i l s* (Applicable to Run on Host System Only)

File/Package Name	Description
<code>mkinitramfs</code>	Script for creating <code>cpio</code> format image of <code>initramfs</code> (ramdisk) from a target root file system directory structure.
<code>unpackinitramfs</code>	Script for unpacking <code>cpio</code> format of <code>initramfs</code> image to root file system directory structure.
<code>usb-install</code>	Script to copy kernel image, grub configurations, <code>initramfs</code> image and installing grub for booting from USB pen drive.
<code>grub</code> (directory)	Directory contains grub configuration files and utility to install grub.

## 2.3 Features

Following feature enhancement is provided in Service Pack3 release:

- Rootfs/Kernel with Windriver PNE-2.0 Service Pack 4

### Features Provided in the Previous Releases

#### *Service pack2*

- Generation of compressed cores on kernel crash.

#### *Service Pack1*

- Rootfs/Kernel with Wind River PNE 2.0 Service Pack 3.
- Crash utility for kernel debugging, provided with limited functionality.
- Debug information separated from the kernel image `vmlinux`.
- Kernel version string now contains information of the build and PNE Service Pack.
- For installation, you can specify the IP address of TFTP server and location of the installation directory on TFTP server, in the kernel command line.
- Supports the Wind River BSP layer.

- Customizable/Dynamic partition layout to support multiple size HDD and allow user to create customized partition size using the configuration file. This features has the following highlights:
  - Enables user to perform automated installation for HDD of various sizes. A configuration file allows user to choose partition size as per the requirement.
  - Supports removal of additional partitions (root2, repl, meta) for user at the time of fresh installation.
  - Disk-based installation with UUID to support movement of the installed disk between different ATCA-7150 boards.
- Installation files are picked relative to the location of `pxelinux.0` on the tftpserver, instead of using absolute path.
- kdump-watchdog integration - This allows kdump being invoked before the watchdog is reset to handle kernel hang scenarios.
- Enhanced Force unmount support - Robustness and performance improvements are done to Emerson's force unmount kernel patch implementation.
- Modified Firmware version, as described in package lists, are incorporated.

## 2.4 Known Issues

Table 2-6 lists the known issues in this release.

Table 2-6 Known Issues

IR	Category	Issue	Description
IR00092058	Software	rpm --verify returns large list of missing/timestamped changed files	This is not a functional limitation. It is due to buggy rpm method used by OS vendor Windriver to perform file system optimization. This is a road map item of Windriver expected from them.
IR00092063	Software	SAS diagnostic and SAF-TE management are not supported on ATCA-7150.	BBS for the blade should include diagnostics functionality that recognizes the existence of SAS devices and provides diagnostics for the SAS device(s). In addition, SAF-TE SCSI management software should be supported.

Table 2-6 Known Issues (continued)

IR	Category	Issue	Description
IR00098696	Software	IPv6 neighbor solicitation does not work on base0 interface.	The IPv6 neighbor solicitation does not work with the base interface base0. Workaround - Either remove the SOL mezzanine card, or reconfigure the SOL module in the following: ipmicmd -k "f0 c 21 1 1 0" smi 0; ipmicmd -k "f0 c 21 2 1 1" smi 0.
IR00129118	Software	Ntp daemon is prone to security vulnerabilities on ATCA 7150	Current ntpd version(4.2.4p0) is prone to security vulnerabilities.It is fixed in 4.2.4p ntpd version.

## 2.5 Resolved Issues

The following tables describe the issues resolved after the ATCA-7150 BBS GA release.

Table 2-7 Resolved Issues in Build 1.0.11

IR	Category	Issue	Description
IR00069568	Software	BBS-ATCA-7150: Inconsistencies during manual RPM installation.	Installation of rpm using <code>rpm -i {rpmname}</code> command gives dependency errors, even though the dependencies are resolved. This is the problem in the rpm spec file of the Wind River supplied rpm.
IR00091690	Software	The <code>shutdown -h</code> command does not change the hotswap state of FRU to M1.	The payload commands that stop the Operating System or halts the processor should also invoke a FRU state change to M1, by sending notification to the IPMC.
IR00092763	Software	kexec watchdog integration for the blade.	When the hardware watchdog expires, a kernel dump is taken to analyze the situation for the watchdog expiration.
IR00092928	Software	Network Interfaces are brought up in the system initialization phase.	When the board is not properly shutdown, the services scripts are not properly cleaned. This leads to problem in the interface enumeration, which is fixed.
IR00096820	Software	BBS Release 1.0 Build 1.9 : ATCA-7150 - ATCA-7150 kernel: ntpd[15748]: segfault at 0000000000000004 rip 0000003a80404736 rsp	The ntpd daemon crashes when it tries to sync-up with another server and having a high drift value.

Table 2-7 Resolved Issues in Build 1.0.11 (continued)

IR	Category	Issue	Description
IR00098781	Software	Hard drive installation fails on the SSD drives.	Installation of BBS software on the HDD of size less than 28 GB was not supported due to fixed partition strategy. The feature of dynamic partitions eliminates this limitation and supports installation on disk size above 2GB.
IR00092853	Software	The kernel panic on ATCA-7150 board after sleeping and rebooting the board.	The acpi table in the BIOS does not have proper physical address of the hpet timer and was causing kernel panic.
IR00092552	Software	The hpm script writes on the same line instead of next line and hence previous console output gets over written.	Formatting the output string so that the output is displayed on separate lines.
IR00092707	Software	FCU to support FPGA, SOL and SDR components also.	Allows FPGA,SOL.SDR upgrades possible using FCU.
IR00091543	Software	Support the SAHPI_POWER_CYCLE state for power state set function in the BBS-HPI-B implementation.	HPI-B implements Power-cycle command for entities (power off->power on cycle).
IR00069876	Software	HPI-B: Implement RMCP connection state events similar to HPI-A.	HPI-B implements events generation when a rmcp connection is established or broken.
IR00069888	Software	HPI-B 1.11.1: Signals in same TTY lead to daemon crash or exit.	The start-up script is altered to start new session. As a result, they do not receive any terminal signals.
IR00092112	Firmware	ATCA-7150: System Firmware Progress event received from the ATCA-7150 lpmc does not contain correct parameters.	The First nibble of Event Data 1 represents how the sensor event data should be interpreted. It should not be zero for SensorSpecific Event type.

Table 2-8 Resolved Issues in Build 1.0.12

IR	Category	Issue	Description
IR00093414	Software	Backspace is not working with the login prompt.	Instead of using the default <code>mingetty</code> program supplied by Wind River PNE 2.0 that does not handle serial consoles properly, <code>agetty</code> is used.
IR00093255	Software	Add <code>TFTPSEVER</code> option in the kernel command line for installation.	This is a feature for supporting configurable <code>tftpserver</code> to provide more flexibility and user experience for installation.
IR00093458	Software	Blades having multiple disks, the user should not change disk configuration after installation.	This is feature for supporting sane disk movement to different blades after installation.
IR00093352	Software	BSP creation for ATCA_7150.	This is a feature for supporting Wind River BSP layer for ATCA-7150 BSP.
IR00099074	Software	ATCA-F120: Fabric link with ATCA-7150 down after switch agent restart.	Added a new E1000 driver to resolve the issue of fabric interfaces not shutting down the PHY in cases when link is not present (i.e. when link with the switch is not up).
IR00093478	Software	IP packet sent once from the Ethernet, is sent out twice in case of the Bonding Network interface.	This was due to a problem in the bonding driver decouple patch.
IR00069757	Firmware	The local SEL needs to be implemented as FIFO.	This bug is fixed with the IPMC firmware 5.22 and FRU information 5.22 (software drop 20090105).
IR00069634	Firmware	OEM FRU Multirecord is very short (8 bytes).	When <code>clia fruinfo -x</code> and <code>ipmb_addr fru_id</code> commands are executed, an error was reported while displaying the multi record data. This bug is fixed with the IPMC firmware 5.22 and FRU information 5.22 (software drop 20090105).
IR00069681	Firmware	SAS/SATA does not work when using two ATCA-7150 boards in a C2000.	This is fixed by the LSI SAS FW upgraded to version 0x2521.

Table 2-9 Resolved Issues in Build 1.1.1 SP1

IR	Category	Issue	Description
IR00093506	Software	TIPC Link retransmit failures occur on redundant LANs.	A regression test issue fixed by including open source TIPC patch.
IR00094098	Software	The vconfig add does not work when used on the VLAN interface.	This is fixing vconfig (VLAN creation utility) issue.
IR00093836	Software	User configurable partitioning scheme (for Centellis and Avantellis).	This feature allows removing certain optional partitions from the default partitioning scheme during installation to provide flexibility for application layer on top of the BBS platform.
IR00094165	Software	Inclusion of sigpending and Hpet-late init patch.	The sigpending patch is to stop a thread from clearing signals of other threads. The Hpet late init patch is to fix the kernel panic due to hpet timer.
IR00094541	Software	Removal of CPLD rpm from build.	As CPLD upgrade using this image requires JTAG tool, so it is removed from software packaging.
IR00093891	Software	Changing uname -a output to incorporate build information.	This feature allows to see the build (release) information from the kernel name string.
IR00094189	Software	Porting crash utility for pne-2.0.	Crash utility for debugging kernel panics is not available on Wind River PNE 2. This package is provide to debug kdump cores for better debugging support to platform.
IR00093691	Software	The netperf package should be removed form the package list in BSP.	This package in not needed as a part of the default rootfs and is not supported by Wind River.
IR00094422	Software	Enabling smartmon tools to monitor multiple disk, based-on disk type.	Until now smart monitoring was enabled only for one HDD and of type SATA. With this feature disk enumeration is performed and SAS disk type is also monitored.
IR00094459	Software	Support for installation of Centellis software on the USB-based hard disks.	The current installation method supports only SATA/SAS/IDE based hard disks. This feature supports USB-based hard disk installation.
IR00093390	Software	The cat /proc/self/cpuset command gives error.	This command was giving kernel panic and is fixed by Wind River.
IR00094108	Software	BIOSFlashDriver.ko is missing in ramdisk.	This includes BIOSFlashDriver.ko in the ramdisk image that provides support of upgrading BIOS in diskless mode too.

Table 2-9 Resolved Issues in Build 1.1.1 SP1 (continued)

IR	Category	Issue	Description
IR00094114	Software	Moving WR patch level to SP3.	This provides support of Wind River service pack 3 in software.
IR00094128	Software	Separating debug information from vmlinux.	The kernel is compiled with debug information. A debugged kernel is better when debugging a panic situation but it has bigger image size. The debugging image can be separated and kept out and can be used when ever required.

Table 2-10 Resolved Issues in Build 1.1.2 SP2

IR	Category	Issue	Description
IR00099150	Firmware	After Watchdog Timer expiry, there is no WatchdogTimerEvent seen in the System Event Log.	After the expiry of WatchdogTimer of the ATCA-7150, no event is found in the system event log.
IR00099165	Firmware	After isolating an IPMB bus using <code>hpiipmb0</code> command, the blade reverts back to the original state.	The ipmb state can be set using the <code>Picmg/SetIpmbState</code> command. But the blade reverts back to the original state immediately.
IR00098899	Firmware	After performing some power-down / power-up tests, the blade does not react on <code>SetPowerLevel</code> or it becomes inactive.	After some power down / power up tests, the blade cannot be activated. You can resolve this by clearing the System Event Log (SEL) on the blade.

Table 2-10 Resolved Issues in Build 1.1.2 SP2 (continued)

IR	Category	Issue	Description
IR00092249	Firmware	Graceful reboot behavior by the ATCA-7150 IPMC needs to be changed.	On receipt of graceful reboot, ATCA-7150 sends a payload notification. It waits for graceful shutdown timeout period and then resets the payload. Although it does not impact the functionality, it is desirable to change the behavior as: ATCA-7150 IPMC receives a graceful reboot command. It sends a notification to the payload. Starts a timer with graceful shutdown/reboot timeout. Waits for a response from the payload software. On receiving a response from the payload software, it should stop the graceful shutdown timer and should not reset the payload. If the IPMC does not get a response from the payload software with in the graceful shutdown timeout period, it should reset the payload.
IR00127392	Software	The <code>hpidomainself</code> utility does not return the domainid on which the client is running.	It is a bug in the <code>hpidomainself</code> utility. You can use <code>hpiresourceself</code> program to get the domain id. Alternatively, you can use <code>SaHpiGetIdByEntityPath()</code> to get the resource id and domain in which the resource is listed.
IR00127394	Software	The HPI utility <code>hpiptype</code> does not return any data. The <code>hpiptype -D</code> and <code>hpiptype -d 1</code> commands does not return anything.	For ATCA-7150 blades the HPI does not have post type control. As a result, the <code>hpiptype</code> client application returns error.



Table 2-10 Resolved Issues in Build 1.1.2 SP2 (continued)

IR	Category	Issue	Description
IR00127395	Software	ATCA-7150 BBS Build 1.1.1 (GA-SP1)-Bug in file fs_config.	It is an error in the config file, but the documentation is correct. Instead of 'yes/no' options for the extended partitions, '1/0' is written in the config file.

Table 2-11 Resolved Issues in Build 1.1.3 SP3

IR	Category	Issue	Description
IR00128911	Software	Root filesystem check is not performed during bootup time.	Root filesystem check is mandatory for proper system functioning. This was missing in earlier releases.
IR00128699	Software	Moving rootfs and kernel to Windriver SP4 patch level	Upgraded rootfs and kernel to Windriver SP4.
IR00128428	Software	Enhance the HPM module to display the WWPN addresses in a readable way.	HPM module is upgraded to display 8byte WWPN address of FC card.
IR00128805	Firmware	FC card support added in the ipmc firmware "5.28.000".	IPMC and SDR changes in firmware to display 8byte WWPN addresses of FC card.
IR00091372	Software	hpmcmd -c macaddress shows update channel as unknown interface.	As per Emerson mac address record, the interface type 04H is assigned to AMC connect as well as update channel.  As a result it is not possible to point from the mac address record that whether this record is for update channel or for the AMC.



# Related Documentation

## A.1 Emerson Network Power - Embedded Computing Documents

The documents listed below are referenced in this manual. You can obtain electronic copies of Emerson Network Power - Embedded Computing publications by contacting your local Emerson sales office. For documentation of final released (GA) products, you can also visit the following website: <http://www.emersonnetworkpowerembeddedcomputing.com> > Resource Center > Technical Documentation Search. This site provides the most up-to-date copies of Emerson Network Power - Embedded Computing product documentation.

*Table A-1 Related Documents*

Document Title	Publication Number
ATCA-7150 Installation and Use	6806800E88
ATCA-7150 and RTM-ATCA-7150: Control via IPMI Programmer's Reference	6806800E85
RTM-ATCA-7150 Installation and Use	6806800E87
System Management Interface Based on HPI-B (Centellis CO 31kX/4100/2000/4410) User's Guide	6806800D84
Pigeon Point Systems IPM Sentry Shelf External Interface Reference	DOCSHMEXTINT
Pigeon Point Systems IPM Sentry Shelf Manager User Guide	DOCSHMUG

**Related Documentation**



## HOW TO REACH LITERATURE AND TECHNICAL SUPPORT:

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