smartzone™

Generation 3 V2.04.04 Firmware Release Notes

Contents

Outline Functionality

General

Firmware version 2.04.04 addresses the issues listed below.

For EPA064 (Hawk-i 3) Gateways this version and later should only be loaded into systems that have one of the following already installed:

- bootloader version 1.11.12 or later

- application version 2.04.03 or later

If neither of these conditions are met (bootloader version is 1.11.11 or earlier AND application version is 2.04.02 or earlier) then the transitional application version v1.11.13 MUST be loaded on to the EPA064 gateway first, and then immediately upgrade to 2.04.04 or later.

There is no requirement to upgrade the bootloader at any time.

For EP042 (RackMS) Gateways this version and later should only be loaded into systems with the following installed:

Has 16MB of Memory installed (Serial Numbers 12109 and greater).

Bootloader version v1.11.12 or later installed.

If neither of these conditions are met then it may be possible to load the v2.04.04 firmware image into 8MB, however it will NOT be possible to further upgrade the unit with new v2.04.xx firmware. (It would require a downgrade to v1.11.11, then upgrade to the new v2.04.xx firmware). This procedure is NOT recommended or supported by Panduit.

Note: For EP042 (RacKMS) Gateways with 16MB of memory, but not running the v1.11.12 bootloader, it is possible to upgrade the bootloader. Please refer to Panduit Technical Support Team.

New Features

New Features Added in version 2.04.04

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25556	Gateway is to re-write IDM defaults.	High	2.04.04		CLOSED

Description of added features:

Whenever a gateway detects an Intelligent Door Module (IDM) unit is connected to the gateway, the gateway will configure the default parameters for the IDM unit, these will be stored in the IDM unit.

New Features added in version 2.04.03

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25526 25527	Display Platform memory size & detected memory size.	High	2.04.02		CLOSED
	25075	Support for EP042, EPA064, EPA126 Memory sizes	High	2.02.17		CLOSED

Description of added features:

The main web user interface status page has been updated to show the size of DRAM being used by the running firmware and the size of memory that the unit physically has installed on its PCB. (Physical memory is determined from the serial number of the gateway.)

The memory initialization for the EPA064/Hawk-i3 detects if the memory size is set to 8MB and if so will correct the value to 16MB. (This will only occur on EPA064 gateways

running an old bootloader (Prior to v1.10.12 bootloader).

New Features added in version 2.04.02

Table of added features:

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	**25462**	Branch circuit Metering support. Using summation of Per outlet currents on each circuit breaker. (Maximum of 9 Circuit breakers)	High	2.02.13		CLOSED
		Branch circuit Metering alarm support. 4 Alarm thresholds, two upper thesholds and two lower thresholds.	High	2.02.13		CLOSED
		Branch circuit Metering alarm support. Trap enable and disable of each alarm level.	High	2.02.13		CLOSED
		Branch circuit Metering alarm support. Repetition timer setting for each .trap level.	High	2.02.13		CLOSED
		Web interface status page to report the branch circuit current values and the thresholds are shown, and the associated outlets with each breaker.	High	2.02.13		CLOSED
		Web interface configuration page to set the name of the breaker, the alarm thresholds, trap enable/disable state, and repetition timer and the outlet maping to the breaker and the rationg of the breaker.	High	2.02.13		CLOSED

Issue ID		Title	Priority	Version	Investigation Results	Status
		Update to Main PDU configuration page to enable / disable branch circuit metering. (Set number of circuit breakers supported by the PDU.)	High	2.02.13		CLOSED
		Revised SNMP MIB to move the Outlet Threshold table, outlet trap enable table and Outlet repetition timer table into the pduOutlets table. Removed unsed object in the three moved tables from the MIB.	High	2.02.13		CLOSED
Bgz	25527	Need to display EPA126/064/042/24/RMS-Cii Platform memory size for field support.	Medium	2.02.16		CLOSED
Bgz	25144	Enable the WEB UI portion of the PKI certificate import support.	High	202.12		CLOSED

Description of added features:

PKI certificate import now supported

This feature was added by version 2.02.12., but not presented at the WEB UI at this time.

Disable web auto fill now supported

This feature was added by version 2.02.11.

Removal of LDAP config page

This was implemented by version 2.2.1.

EPA064 support with new boot loader

This feature was added by version 2.02.12.

EP042 support with new boot loader and 16MB dram

This feature was added by version 2.02.12.

E24 now supported

This feature was added by version 2.02.12.

Branch circuit monitoring / configuration and traps

This feature was added by version 2.02.12.

Per outlet current threshold configuration and traps

This feature was added by version 2.02.12.

Released Production Files

File List

Product Upgrade Images

Name	CRC32	Size
Gen3_app_2.04.04.bin	B6BE7604	1,966,773

Location

https://panduit.sharepoint.com/edibu/dc/ims/Projects/Appliances/Gen3%20Gateways/Firmware_v2_04_04

Application Image

Gen3_app_2.04.04.bin main application image file

See sections 1 and 4 for details on changes of functionality.

See Section 5 for known issues and reported defects.

MIB File

coniston.mib
MIB Revision 20 (dated 09 February 2017)

Subversion file $Revision: 594

For details of MIB revision history refer to MODULE-IDENTITY section in MIB source.

Location:
https://panduit.sharepoint.com/edibu/dc/ims/Projects/Appliances/Gen3%20Gateways/Firmware_v2_04_04

Test documents

Version 2.04.04 firmware was tested in accordance with the relevant documents.

Tests summary

Version 2.04.04 testing was performed in accordance with sections of the relevant documents.

Manufacturing File Images

File List

Manufacturing Images

Name	CRC32	Size
Gen3_flash_2.04.04.bin	DCD59BC0	4,194,304

Changes from Previous Application Image Release

Issues resolved by version 2.04.04

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25559	No skin after firmware upgrade	Medium	2.04.03		CLOSED
Bgz	25560	SNMP get last badge code not working when RAS is enabled.	Medium	2.04.03		CLOSED

Issues resolved by version 2.04.03

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25531	Extra messages in the event log	Medium	2.04.xx		CLOSED
Bgz	25298	Timeout comparison bugs at timer wraparound in ACU code	Low	2.02.06		CLOSED
Bgz	25536	Fix pedantic warnings that will affect future code porting efforts	Medium	2.04.02		CLOSED
Bgz	25439	Gateway is not sending out correct SSL certificates	Medium	2.02.08		FIXED
Bgz	25440	acuLastCode is not being set	Medium	2.02.08		FIXED
Bgz	25542	Outlet Control Pages no longer auto update	Medium	2.04.02		CLOSED

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25544	The threshold ranges in the inputs sensor on the Web UI don't match the range in SNMP	Medium	2.04.02		CLOSED
Bgz	25549	Remove support for branch circuits on Rack MS	Medium	2.04.02		CLOSED
Bgz	25550	Cannot set PDU gang 24's name through SNMP	Medium	2.04.02		CLOSED
Bgz	25553	Input sensor web displays ??? when sensor unplugged	Medium	2.04.02		CLOSED
Bgz	25554	Unexpected trap from input sensors when re-plugged	Medium	2.04.02		CLOSED
Bgz	25555	Change the default Hysteresis value for "Analogue Voltage" sensors to be 0.5Volts.	Medium	2.04.02		CLOSED
Bgz	25556	Gateway needs to be able to re-write IDM defaults	Medium	2.04.02		CLOSED

Issues resolved by version 2.04.02

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25011	Hidden Web Page - Fail message when same port is selected twice	Medium	2.02.03	The issue is with the Mk2 PDU firmware, not the gateway firmware.	CLOSED
Bgz	25072	Java Script Error in Hidden Web Page Config/Utility.html	Low	2.02.03	Calling a non-existant 'validateForm()' function on submit.	CLOSED
Bgz	25180	Missing some gangs during	Medium	2.02.05		CLOSED

Issue ID		Title	Priority	Version	Investigation Results	Status
		walk of pduGangEntry table				
Bgz	25441	Unable to add Outlets 2-24 from PDU 1 to any gang.	Medium	2.02.08		CLOSED
Bgz	25443	The snmp object pduOutCycleAll doesn't seem to work	Medium	2.02.08		CLOSED
Bgz	25445	SNMP PDU gang enable states not correctly reported.	Medium	2.02.xx		CLOSED
Bgz	25450	OpOnDelTime and OpOffDelTime not being set when changed on the web UI	Medium	2.02.xx		CLOSED
Bgz	25453	Length of PIN Code Setting is not exposed in the SNMP MIB. (can only be viewed/changed from Web UI)	Medium	2.02.08		CLOSED
Bgz	25454	Add support to write to configuration Memory in NOR FLASH via TFTP - to Support BCU and VCE requirements	Medium	2.02.09		CLOSED
Bgz	25463	EventLogPageData cookie is not parsed properly	Low	2.02.10		CLOSED
Bgz	25471	Setting the threshold to -1 does not disable the alarm	Medium	2.02.11		CLOSED
Bgz	25472	The custom skins on the system do not work	Medium	2.02.xx		CLOSED
Bgz	25474	Update Gen3Config tool to support 72 outlets per PDU + branch circuit configuration	Medium	2.02.xx		CLOSED
Bgz	25475	INC0200111 - Upgrade to 2.02.11 causes occasional keypad lockups	Medium	2.02.xx		CLOSED

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25478	Nodes with a Skin has an issue with the outlet control	Medium	2.02.xx		CLOSED
Bgz	25479	Cannot add outlets from PDU 7-24 to a gang from the web UI	Medium	2.02.xx		CLOSED
Bgz	25482	Finish optimizing the SNMP look ups through out the code,	Medium	2.02.xx		CLOSED
Bgz	25484	CL-AMP not working correctly in 2.2.x	Medium	2.02.xx		CLOSED
Bgz	25488	Faulty card reader operation on IDM	Medium	2.02.14		CLOSED
Bgz	25493	Branch Circuit Repeat Timers only go to 9999 on the Web UI	Medium	2.02.XX		CLOSED
Bgz	25501	MIB pduOutTable trap period objects not updated correctly	Medium	2.02.16		CLOSED
Bgz	25503	HPEWebInspect0002: Privacy Violation: Autocomplete (11276); CWE: 200	Medium	2.02.11		RESOLVED
Bgz	25508	HPEWebInspect0007: System Information Leak: External (3853); CWE: 200	Medium	2.02.11		RESOLVED
Bgz	25527	Need to display EPA126/064/042/24/RMS-Cii Platform memory size for field support.	Medium	2.02.16		CLOSED
Bgz	25529	My gateway shows one or more random characters as the first character of the serial number on the login page.	Medium	2.02.xx		CLOSED
Bgz	25530	Some of the audit messages have the RCD as the PDU ID	Medium	2.02.xx		CLOSED

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	**25534**	Update VCE skin to refer to Dell	Medium	2.02.xx		CLOSED

Outstanding Issues

The following reported problems have been found since the previous release (2.04.02) and are still outstanding in this release.

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25535	Logged Out OF Web UI Prematurely	Medium	2.04.02		NEW
Bgz	25557	Request to add a time format of yy/mm/dd	Medium	2.04.03	Feature request, to addressed in the future	NEW

The following reported problems were found prior to the previous release (2.04.02 and earlier) and are still outstanding.

Issue ID		Title	Priority	Version	Investigation Results	Status
Bgz	25003	MTS Network Parameters Test Fails Subnet Masks and Gateway Addresses	Medium	2.02.03	Not customer facing	DEFER
Bgz	25010	IP Stack Selection works only in "Dual" mode	Medium	2.02.03	Not seen as a critical issue	WONTFIX
Bgz	25196	Two Save Buttons in Power - Configure - Power Strip Outlets	Medium	2.02.06	Enhancement. Clarification: One button saves the Power Strip settings, the other saves the per-outlet settings.	WONTFIX
Bgz	25428	Gateway not responding - stops in bootloader application	Medium	2.02.07	Do not reboot or power cycle the	DEFER

Issue ID		Title	Priority	Version	Investigation Results	Status
		update mode			gateway while a firmware update is taking place.	
Bgz	25468	INC0195779 - Only first of 3 phases being shown on the 'Power>Status' page with 3 phase PDU	Medium	2.02.xx	Unable to reproduce	ASSIGNED

Workarounds for issues not resolved by this release.

Issue	Description	Work Around
1.	LCD display when connected to the Gateway will display incorrect information for a single phase PDU. [Works correctly when connected to IDM, works correctly for sensors / 3-Phase PDUs]	1) Connect LCD to IDM.
2.	Setting Invalid IP configuration via serial Manufacturing System Test (MTS) interface is save in configuration space. Unit automatically ignores the invalid data and uses factory defaults, but user is now shown the invalid data via the web interface.	Unit automatically ignores invalid data and goes into recovery by using factory default values.