

CISGLOBAL

ADVANTAGE SERIES
FIRMWARE RELEASE NOTES

Version 1.0.6.1

26-June-2020

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1 GENERAL

1.1 SCOPE

This document is the Release Notes for Advantage Series Firmware Version 1.0.6.1

1.2 ABBREVIATIONS AND ACRONYMS

A list of the principal abbreviations and acronyms used in the document is provided here for a better understanding of this document.

<i>PDU</i>	Power Distribution Unit
<i>GUI</i>	Graphical User Interface
<i>SSH</i>	Secure shell
<i>SNMP</i>	Simple Network Management Protocol
<i>SMTP</i>	Simple Mail Transfer Protocol
<i>LDAP</i>	Lightweight Directory Access Protocol
<i>CLI</i>	Command Line Interface
<i>Conf</i>	Configuration
<i>CB</i>	Circuit Breaker
<i>FTPS</i>	File Transfer Protocol Secure
<i>MAC</i>	Media Access Control
<i>NTP</i>	Network Time Protocol
<i>IP</i>	Internet Protocol
<i>ETH</i>	Ethernet
<i>SKU</i>	Stock Keeping Unit

2 RELEASED FILES

2.1 PACKAGED FILE

ENLOGIC.TAR

<i>Image File</i>	<i>MD5</i>
<i>zImage</i>	b1672b232eed018be34db1984a880dc7
<i>u-boot.bin</i>	e04f4b42b5dd51978d9d66138273e97e
<i>rootfs.ubi</i>	58add80da95d199f50c8a9a390ce258
<i>at91bootstrap.bin</i>	c2126c33fee8518915287b649d3d0e74
<i>at91-sama5d3_xplained.dtb</i>	2f2c0bd4de47ffd117452155b986662a

2.2 SOFTWARE VERSION

FIRMWARE VERSION – 1.0.6.1

webui – 1.0.5.8

3 PRODUCT FAMILY

<i>Product Type</i>	<i>Description</i>
<i>Input Metered (MI)</i>	PDU that have ability for aggregate power monitoring
<i>Outlet Metered (MO)</i>	PDU that have ability to aggregate outlet level power monitoring
<i>Switched (MISO)</i>	PDU that have ability to aggregate power monitoring and outlet level switching capability
<i>Metered and Switched per Outlet (MOSO)</i>	PDU that have ability to aggregate outlet level power monitoring and outlet level switching capability
<i>Inline Energy Meter (IEM)</i>	Inline Energy Meter that have ability to monitor power for attached IT equipment

4 SKU SUPPORTED

<i>Type</i>	<i>SKU Numbers</i>
<i>Input Metered (MI)</i>	EN1403, EN1805S, EN1902, EN1906, EN1337 , EN1315 , EN1806 , EN1326 , EN1811 , EN1815, EN1908 , EN1907, EN1339
<i>Outlet Metered (MO)</i>	EN5808, EN5810, EN5402 , EN5329 , EN5325
<i>Switched (MISO)</i>	EN2316E, EN2804S, EN2808, EN2324 , EN2325 , EN2810, EN2326 , EN2333 , EN2329 , EN2402 , EN2902 , EN2804 , EN2907 , EN2317, EN2812
<i>Metered and Switched per Outlet (MOSO)</i>	EN6324, EN6804, EN6333, EN6808, EN6810, EN6902, EN6325 , EN6602 , EN6329 , EN6402 , EN6804S, EN6338 , EN6326 , EN6337
<i>Inline Energy Meter (IEM)</i>	EZ1732 , EZ1632 , EZ1616 , EZ1430, EZ1663

5 PDU FEATURES ENABLED

FEATURES	INPUT METERED (MI)	OUTLET SWITCHED (MS)	OUTLET METERED (MO)	METERED AND SWITCHED PER OUTLET (MOSO)
<p>DESIGN</p> <ul style="list-style-type: none"> • Low profile, space saving design • Ultra-low-profile circuit breakers on most models • Adjustable tool-less mounting system 	YES	YES	YES	YES
<p>PDU POWER MONITORING</p> <ul style="list-style-type: none"> • PDU level watt hour power metering (kWh) • PDU level power measurements (W) • Input phase level power measurements (V, A, VA, kWh, pf) • Circuit Breaker level current measurements • High accuracy, billing grade metering capabilities • Embedded memory log to record/view/report historical data • User customizable alarm thresholds & notifications 	YES	YES	YES	YES
<p>OUTLET LEVEL SWITCHING</p> <ul style="list-style-type: none"> • Remote ON/OFF Power control by individual outlet • User defined power-on time delay to sequence IT equipment • Automatic sequencing to avoid inrush current overload • Controlled with assignable roles and user access 		YES		YES
<p>OUTLET LEVEL POWER MONITORING</p> <ul style="list-style-type: none"> • Outlet level watt-hour power metering(kWh) • Outlet level power measurements (V, A, VA, W, pf) 			YES	YES
<p>ENVIRONMENTAL MANAGMENT</p> <ul style="list-style-type: none"> • Optional Plug and Play environmental sensors including temperature, humidity and water leak 	YES	YES	YES	YES
<p>PHYSICAL SECURITY MANAGEMENT</p> <ul style="list-style-type: none"> • Rack access monitoring with door contact switch • Customizable alarm thresholds and notifications 	YES	YES	YES	YES

<p>NETWORK MANAGEMENT AND LOCAL DISPLAY INTERFACE</p> <ul style="list-style-type: none"> • <i>Active LED display for power measurements</i> • <i>OLED Display with high contrast ratio, easy to navigate menu and visual graphic bars for phase load balancing</i> • <i>Full featured network management and alerting capabilities supporting HTTP, HTTPS, SSH, SNMP, FTP and EMAIL</i> • <i>Strong encryption, passwords and advanced authorization options including local permissions, LDAP and Active Directory</i> • <i>Daisy Chain up to 4 Rack PDU and 16 environmental sensors through single IP address</i> 	YES	YES	YES	YES
<p>BRANCH CIRCUIT LOAD MONITORING</p>	YES	YES	YES	YES
<p>CIRCUIT BREAKER STATUS</p>		YES	YES	YES

6 ISSUES AND TASKS ADDRESSED

<i>JIRA ID</i>	<i>Description</i>
<i>EOB-1019</i>	GUI: Http mode is not working when setting to http mode in 1057 build
<i>EOB-988</i>	WEBUI: Daisychain-PDU: EMAIL: RNA: Mail received from Last-PDU will take phy chip id of eth0
<i>EOB-974</i>	Daisychain-PDU: WEBUI; Power Panel name edit option is not there
<i>EOB-964</i>	WEBUI: EVENTLOG: Junk data appending with host ip in the event log for log in log out activities
<i>EOB-901</i>	GUI: Blocked user can access GUI after a reboot
<i>EOB-900</i>	process will be restarted if the bad request sent 2 /3 times
<i>EOB-969</i>	GUI: Enable Radius Configuration from User Settings page
<i>EOB-963</i>	SNMP: Unable to set the Lower Warning threshold values for temperature sensor
<i>EOB-933</i>	Daisychain Alarms: Warning alarm generated for Daisychain connected
<i>EOB-919</i>	ftps: able to access temp folder
<i>EOB-871</i>	Introduce Restart in "NTP" and "Date/Time Settings" in network settings.
<i>EOB-797</i>	GUI: Setting LED Edge Color Reboots the PDU but there is no Rebooting dialog box
<i>EOB-971</i>	DaisyChain-PDU-Index Mismatch in Identification Page
<i>EOB-949</i>	Add IPv6 support for Web (HTTP and HTTPS) and SSH
<i>EOB-948</i>	SKU creation: EN1339
<i>EOB-868</i>	GUI: Force Password Change for New Users does not follow Password Policy
<i>EOB-621</i>	No Option to set 7 Segment Display in Daisy chain
<i>EOB-554</i>	Modify GUI to show the status of pdu's as dropdown to avoid consuming more cpu cycles
<i>EOB-410</i>	WebUI: Threshold\ControlManagemen\Bank\Outlet, should be active power, not current.
<i>EOB-365</i>	GUI: New icons not enabled in GUI
<i>EOB-1021</i>	WEBUI: Changing LED edge color will reflect the changed color until refresh is issued

<i>EOB-1022</i>	WEBUI: Changing led edge color for all PDU will show some random numbers in success dialogue message
<i>EOB-1025</i>	WEBUI: Cannot Enable Radius Configuration
<i>EOB-1027</i>	WEBUI: Power thresholds tab (Unable to edit the values from second tab i.e. PDU (5-8) once it's failed than unable to edit first tab (1-4) power threshold values too
<i>EOB-1028</i>	WEBUI: Thresholds page Input phases values unable to edit and always return to the default values
<i>EOB-1029</i>	WEBUI: Control Management TAB will not land with Outlet info (need to toggle between Bank or PDU,s)
<i>EOB-967</i>	SNMP SysDesr Table Needs update
<i>EOB-961</i>	EN2812 SKU Addition
<i>EOB-233</i>	Save Button on Web GUI needs Page refresh for data to update
<i>EOB-910</i>	FT Mode: 'ft eeprom restore' command not restoring the values properly.
<i>EOB-1015</i>	Seven segment display will go to off state after upgrading to 1.0.5.7
<i>EOB-1018</i>	Redfish: URL /redfish/v1 should work without Basic authentication as per DMTF standard
<i>EOB-902</i>	Panduit Trap OID numbers are received for enlogic traps
<i>EOB-1002</i>	Seven segment display will go to off state after upgrading to 1.0.5.7
<i>EOB-985</i>	HTTPS: pages with more than 6kb size not loading in ssl.
<i>EOB-975</i>	DATALOG: Headers missing in WEBUI
<i>EOB-964</i>	WEBUI: EVENTLOG: Junk data appending with host ip in the event log for log in log out activities
<i>EOB-991</i>	WEBUI: 24PDU : Odd number PDU information not seen in Webui i.e 5th , 9th, 13th, 17th & 21st if the daisy chain is of 5, 9, 17, 21 PDU
<i>EOB-965</i>	DATALOG: previous log entries not seen after some time of PDU activity
<i>EOB-360</i>	GUI: "Default-Password" not able to change more than 16 char, even password policy is set more than that
<i>EOB-962</i>	EN1339: Input phase & input voltage values showing zero and load information seen only in CB level
<i>EOB-913</i>	During the reboot activity the PDU will go to unknown state and recovers by itself after some period of time
<i>EOB-764</i>	EN20sys process gets reinitialised very frequently (New Process created very often) - Resulting in repeated logs, traps, events for a one action performed
<i>EOB-747</i>	WEBUI : Alarm page will be empty when 3TH & (DRY/DOOR sensor is connected in 2 PDU daisychain)

<i>EOB-647</i>	DaisyChain-PDU: Cannot control outlets via WEBUI since control manage will not load and always it shows PDU1 and outlet info will be empty
<i>EOB-646</i>	DaisyPDU : WEBUI : Cannot save the power panel name in system management page it will logout when save button is selected
<i>EOB-556</i>	Daisy : Set STATIC IP to last PDU from GUI to ETH1 will corrupt the mac2 address and on every restart it will assign new ip address
<i>EOB-555</i>	Daisy NMC : Set STATIC IP to last PDU from GUI to ETH1 and it takes different IP.
<i>EOB-540</i>	GUI: Daisychain Wrong PDU numbers shown in identification page under external sensor table
<i>EOB-539</i>	GUI: Daisychain Displays wrong PDU numbers in Identification page (external sensor table)
<i>EOB-955</i>	Boot version alignment in production line
<i>EOB-907</i>	WEBUI:- Door Sensor Alarm is not generating.
<i>EOB-758</i>	GUI: PDU Power Thresholds is blank in Standalone PDU
<i>EOB-757</i>	GUI: PDU Information is blank in Standalone PDU
<i>EOB-700</i>	WEBUI : Live status for outlets in not updating for breaker physically off
<i>EOB-594</i>	Boot version is showing 1.26
<i>EOB-551</i>	GUI: Daisychain: Change info in System Management will force user logout.
<i>EOB-550</i>	GUI: Daisychain: Empty in Threshold\PowerThreshold.
<i>EOB-548</i>	GUI: Daisychain: Empty in Control&Manage.
<i>EOB-542</i>	GUI: Daisychain SKU info mismatch observed in Identification page
<i>EOB-959</i>	Sensor detection/removal taking more than 1 minute to update information
<i>EOB-951</i>	OLED Firmware Version alignment
<i>EOB-944</i>	Success dialogue message for the outlet threshold missing the word "SAVED" and displays data is successfully
<i>EOB-936</i>	en20sys restarted when NTP set to offset set to satiago (UTC-4)
<i>EOB-929</i>	DOOR sensor alarms not seen in alarm page but generated events generated in event log
<i>EOB-879</i>	Even though http and https mode both are enabled by default sometimes one of the mode will be inaccessible.
<i>EOB-878</i>	1.After upgrading to 1.0.4.7 from 1.0.4.4 WEBUI went to in accessible state. Tried both mode(https & http) .
<i>EOB-856</i>	Ftps process restarted and PID number changed when accessing the blocked folders

<i>EOB-605</i>	Sensor Serial displayed is wrong in all the interfaces , OLED, SSH/CLI, WEBUI (Dev tool)
<i>EOB-549</i>	GUI: Daisychain Only display PDU1 in threshold\CircuitBreaker and InputPhase.
<i>EOB-389</i>	DS-PDU : Total sensors able to display only 5 PDU info in GUI dashboard
<i>EOB-984</i>	WEBUI : In total summary page next button will go up to DaisyChain PDU even the PDU connected
<i>EOB-973</i>	DaisyChain-PDU : WEBUI: From some PDUs in DaisyChain the index number shows different
<i>EOB-970</i>	Daisy Chain PDU index mismatch in Identification page
<i>EOB-969</i>	GUI: Enable Radius Configuration from User Settings page
<i>EOB-968</i>	SSH/CLI : IPV6 appending junk values with the ipv6 address
<i>EOB-946</i>	WEBUI : saved data is not reflecting for control management tab & circuit breaker tab until refresh is issued
<i>EOB-898</i>	SSH is still able to access even after disabling in WEBUI
<i>EOB-835</i>	Web: turn off SSH via web, still can access SSH via serial
<i>EOB-481</i>	GUI: Change the Text from GMbps to Gbps
<i>EOB-417</i>	SSH/SNMP:SSH session is getting opened even after closed from SNMP or SSH after restart
<i>EOB-410</i>	WebUI: Threshold\ControlManagemen\Bank\Outlet, should be active power, not current.
<i>EOB-388</i>	DaisyChain-PDU : Page alignment issue for 8 PDU daisy chain setup in identification page, thresholds page power thresholds tab.
<i>EOB-1042</i>	RS485 Patch for CB Events

7 FEATURE UPDATES FROM 1.0.5.8 BUILD TO 1.0.6.1

- Daisy Chain up to 8 PDU
- Redfish Support as per latest DMTF
- IPv6 Support Enabled
- Radius Server support Enabled
- Alarm Count increased to 80
- Trap OID mapping to its severity
- Daisy Chain communication optimized between Master and Slave PDUs
- GUI automatic refresh introduced for Control & Manage, Thresholds
- 7 Segment Border color selection for all PDUs connected in Daisy Chain