Eaton PredictPulse™ User Help

Revision 1.3.4 October 7, 2019

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Welcome to PredictPulse remote monitoring service

Eaton PredictPulse is a cloud-based subscription service for data center power infrastructure devices (Eaton UPS's) that allows Eaton to remotely monitor and manage system health 24x7, as well as notify users to events and critical alarms with an expedited response. This document will introduce you to this innovative application interface, key features and a glossary of terms.

Note: PredictPulse is an Eaton service offered with and without advanced features like predictive analytics (PredictPulse Insight). This document describes PredictPulse remote monitoring service without predictive capabilities. Advanced features will be described in future documentation.

How to contact Eaton

Getting started with PredictPulse is quick and easy, and Eaton is ready to help you with any questions **24x7** (USA call 800-843-9433, option 2, option 5 or email predictpulseoperations@eaton.com).

User interface

PredictPulse includes a simple set of summary and detailed views of your connected devices. You can view PredictPulse with either a laptop browser, like Chrome, or any mobile device. Eaton uses a progressive web application (PWA) technology instead of native apps, so the same application can run on most browsers and mobile devices and adapt based on your device and screen size. Most features will work on either laptop browsers

and mobile with two exceptions: phone calls can only be made from mobile devices and device activation (wizard) can only be run from a laptop on the device's network.

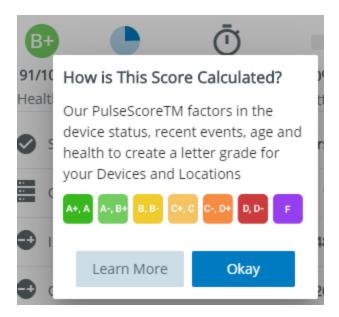
Note: you may need to clear your browser cache or click your reload button to refresh the PredictPulse app occasionally. New features and updates will be released over time and clearing the browser cache often corrects login or data visibility issues.

Note: browsers supported include Chrome, Firefox, Edge and Safari. Do not use Microsoft Internet Explorer 11 or older.

The layout of information will adapt to your device's screen. PredictPulse uses scrolling to view more information and expanding/collapsing menu selections.

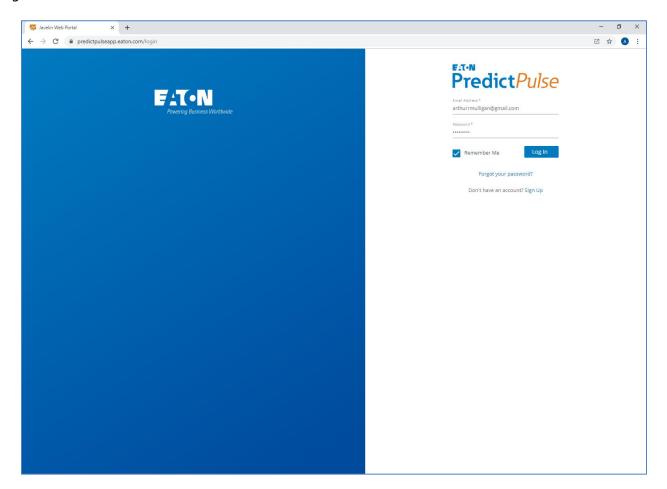
- 1. Login screen (new enrollment, password reset)
- 2. Overview page (at-a-glance of all devices)
 - a. Preferences, activate devices, invite users
- 3. Device list view
 - a. Navigation buttons (overview, invite-user, user, devices, help)
- 4. Device detail view
 - a. More details views (expand/collapse)

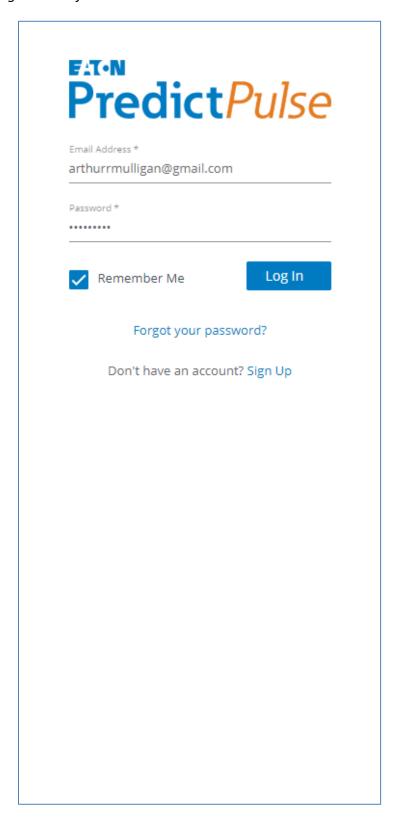
Pop-up tool-tip (click on PulseScore icon to view) > Learn more (to view more details)



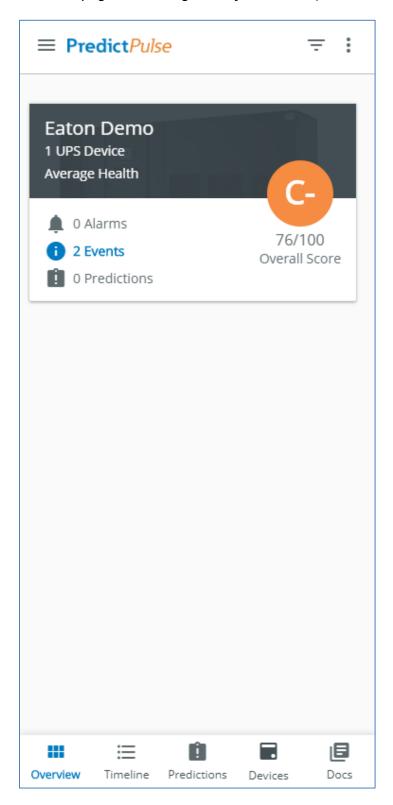
Many of the icons include **pop-up tool-tip** explanations by clicking. Above example can be viewed by clicking the PulseScore letter grade (B+ in the illustration above).

Login screen from browser (new enrollment, password reset), enroll or login to open overview page

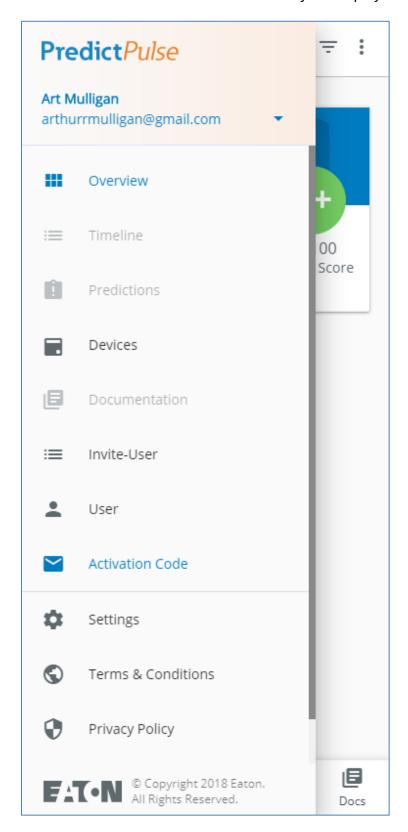




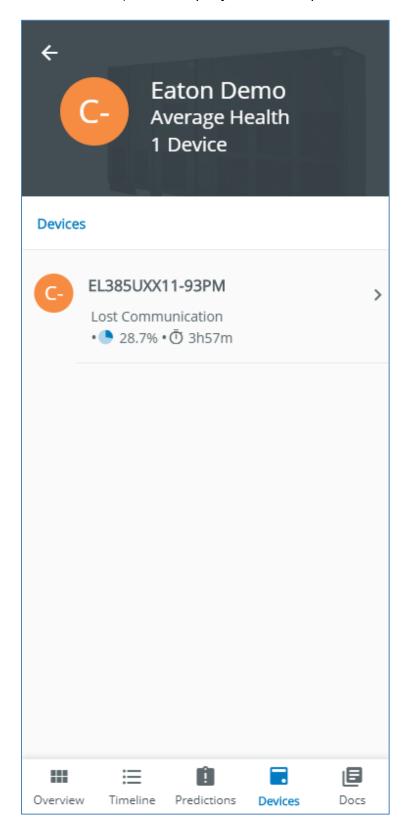
Overview page with at-a-glance of all devices (click on card to open device list)



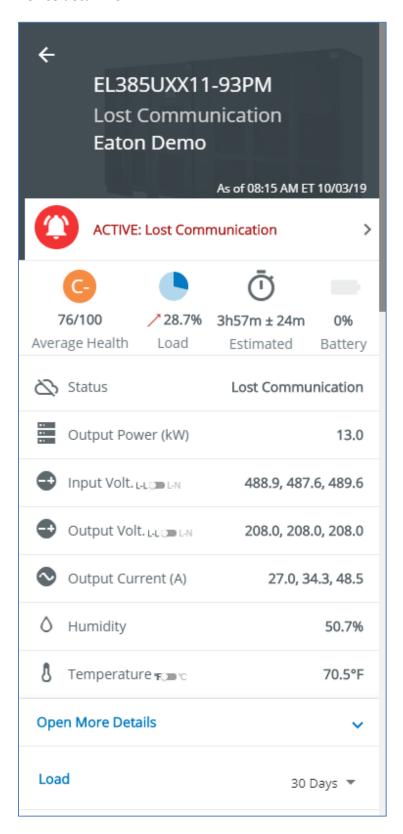
Sidebar menu > access user actions like notification preferences (settings), invite users



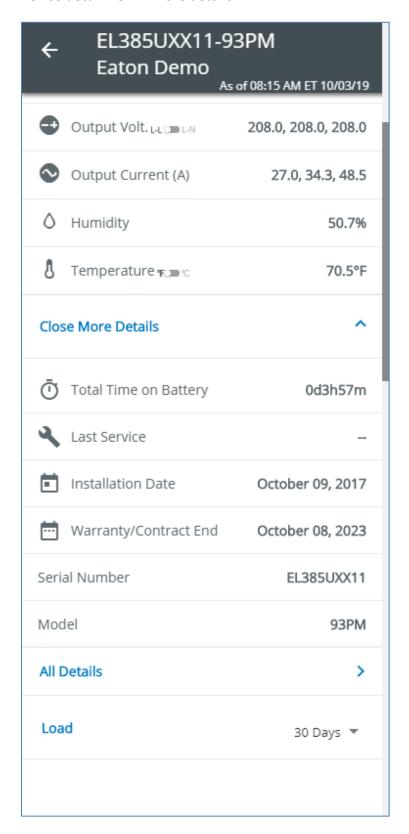
Device list view (click on a specific device to open device detail view)



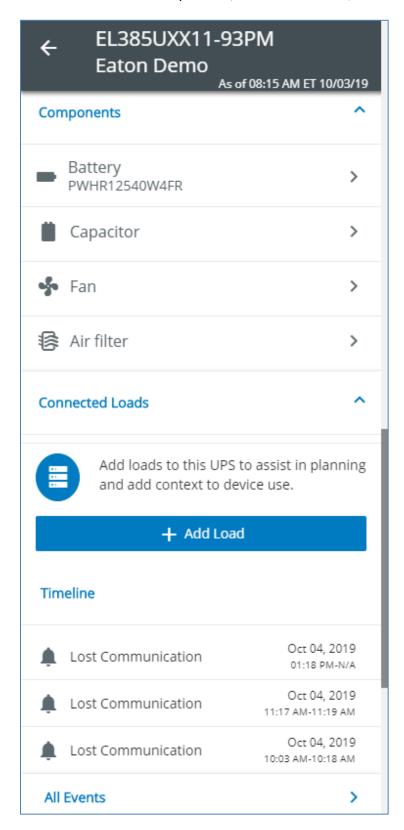
Device detail view



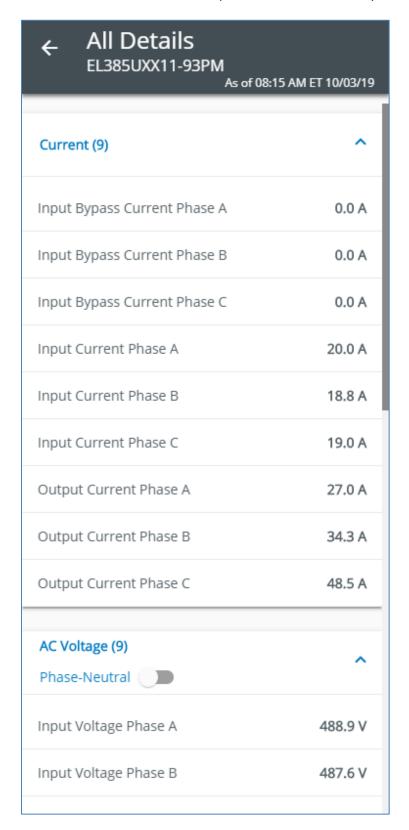
Device detail view > More details



Device detail view > Components, Connected Loads, Timeline, All Events



Device detail view > All details (scroll to view all values)



The **key performance indicator (KPI)** icons at the top of the device detail screen all include a pop-up tool-tip aid, or direct to the detailed information, to explain what each icon represents.

The default **overview** (home) screen view shows the overall number of **devices**, **alarms**, **events**, **predictions** and overall health score (PulseScore).

- **Devices** are UPS systems actively subscribed and sending data to PredictPulse. A parallel UPS would equal two devices since each UPS can be monitored separately.
- Alarms come from the device and include critical and urgent alarms, which may be informational
 or urgent. PredictPulse assigns alarms to categories like "On Battery", "Internal Fault Detected",
 etc. and a call to the customer point of contact for urgent alarms requiring an Eaton field
 technician site visit or advanced exchange will be conducted by the Monitoring team.
- **Events** are informational and do not come from a device. Lost communications partial telemetry and high temperature are events.
- Predictions are predictive alerts for PredictPulse Insight subscribers. This will indicate one or
 more components health conditions need attention and an Eaton analyst will be in contact to
 discuss or arrange a site verification visit.

PulseScore is a summary of device conditions including operational status, recent alarms, taking into consideration the alarm criticality, component health, age, and service history. When viewing multiple devices, the average of all devices is displayed as an overall score and letter grade (A+ to F). The scale is 1 -100 with extra points offered for best practices (core can exceed 100 points). This health score is dynamic and can change at any time.

Letter Grade	Va	alue	Points
Healthy	A-	+	101+
Healthy	A		96-100
Healthy	A-		93-95
Healthy	B+	+	90-92
Healthy	В		87-89
Healthy	B-		84-86
Average Health	C+	+	81-83
Average Health	С		78-80
Average Health	C-		75-77
Poor Health	D-	+	72-74
Poor Health	D		69-71
Poor Health	D-	-	66-68
Poor Health	F		65 or
			below

Device parametric data		Value	20 Points
Load % overall		> 81%	-10
Load % overall		> 91%	-15
Temperature		< 64 F (18 C)	-5
Temperature		> 79 F (27 C)	-2
Temperature		> 84 F	-4
Temperature		> 89 F	-6
Temperature		> 95 F	-12
Humidity		< 40% rH	-5
Humidity		> 60% rH.	-5
Service history		Value	15 Points
Battery age		< 3yrs	0
Battery age		4 yrs	-2
Battery age		5 yrs	-5
Battery age		6 yrs +	-6
Capacitor age		> 5 years	-3
Capacitor age		NA	0
Capacitor age		> 7 years	-6
Emergency SR's in last year		> 0	-5
Emergency SR's in last year		0	0
Configuration		Malara	F.D.:t.
Configuration		Value	5 Points
Parallel redundant		NOT	-2
Battery cabinet	1)	<2	-1
MBP (Maintenance bypass pane	1) T	NOT	-2
Device age		Value	5 Points
less than 5 years			0
Between 5 and 10 years			-1
Between 11 and 15 years			-2
Between 16 and 20 years			-4
Best practices - extra credit		Value	5 Points
ESS/VMMS mode		ON	1
UPS PM's completed within last	year	>1	2
OEM Service		Eaton	1
Load less than 90%		< 90%	1
Device status	Status		30 Points

Status must be one state	Shutdown	-20	
	On Battery	-5	
	Online VM	0	
	Online ESS		0
Default	Online - Do	ouble	0
	Conversion	า	
	On Bypass		-5
	Lost Comn	nunications	-15
Alarms/events within last 24 ho	urs	Severity	25 Points
Default		Null	0
1 or more		Critical	-10
1 or more		Major	-5
1 Critical + 3 > Minor		Critical +	-12
		Minor	
1 Critical + 1 Major		Critical +	-15
		Major	
1 Major + 3 > minor		Major +	-10
		Minor	
3 or more		Minor	-3
		Informational	0

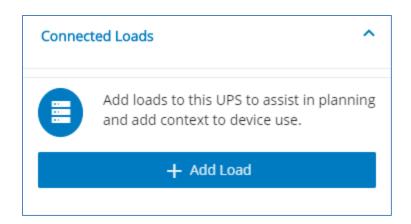
Navigation within PredictPulse includes scrolling up and down (mobile) to view more information, clicking on a device or icon to drill down to a specific device, and the back arrow or side menu icon for preferences.

Screens may include navigation buttons on the bottom for common screens.

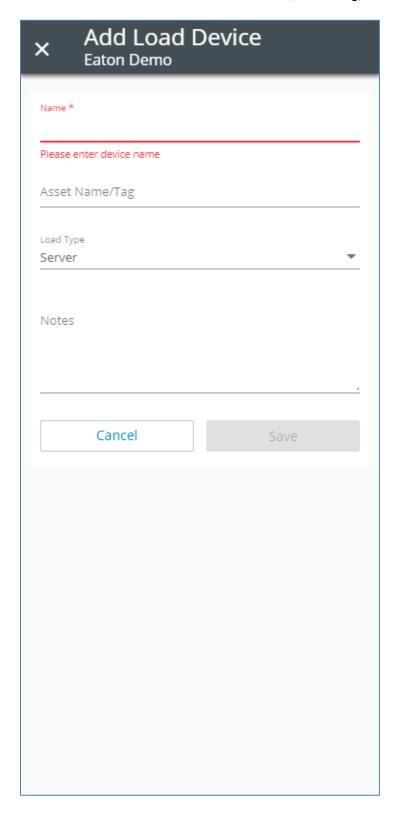


Navigation buttons

Connected Loads on the device detail screen displays your downstream loads like servers associated with a specific (UPS) device. This is user entered optional information. Click the Add Load button to add new information and click the saved connected load name to edit or delete a previously entered connected load. Once saved, all users can view this information.



Connected Loads > click to add loads



To view specific devices, click on the main home screen to see the **device list screen**. Each device associated with an organization's account will be displayed based on the health or alarms, in descending order of worst health to best health. Clicking on any device will open its **device detail screen**.

Monthly reports are automatically sent to all users (summary, detail report)

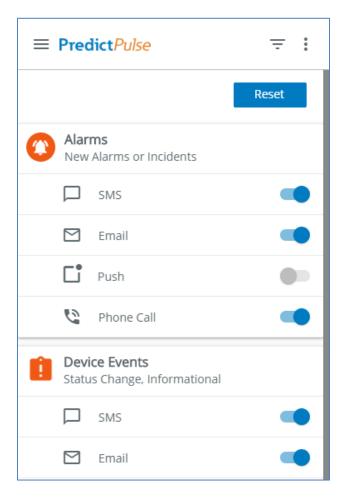


Alarms, notifications

Alarms are defined by the device and include critical and urgent alarms, which may be informational or urgent. PredictPulse assigns alarms to categories like "On Battery", "Internal Fault Detected", etc. and a call to the customer point of contact for urgent alarms requiring an Eaton field technician site visit or advanced exchange will be conducted by the Monitoring team. Alarms are sent with approximately a one-minute latency.

Events are non-critical alerts, status change events and informational notices.

Notifications can be self-managed via the side menu **Settings** button. Default setting is every notification ON. *Note: SMS text messages may result in charges per text message.*



Alarm table with specific critical, urgent alarms, and events. Eaton notifies customers via phone calls on alarms below.

EventDesc	Cust ome	Customer Message	Notes
	r Call		
MAJOR: Ambient OverTemperature	Yes	Ambient OverTemperature	The Room is hot, have the customer check
MAJOR: Battery Over Temperature	Yes	Battery Over Temperature	The battery is above recommned temperature
CRITICAL: Low Battery Shutdown	yes	Battery Totally Discharged	The Inverter was shutdown when on battery due to totally discharging the battery
MAJOR: Check Battery	Yes	Check Battery	The battery should be checked.
CRITICAL: Site Wiring Fault	Yes	Check Neutral Connection	The Neutral wire may be disconnected
Check Parallel Board	Yes	Internal Fault Detected	Board Failure Powerware Plus
CRITICAL: Abnormal Output Voltage At Startup	Yes	Internal Fault Detected	Possible STSW short
CRITICAL: Check Backfeed Switchgear	Yes	Internal Fault Detected	The backfeed contactor or breaker did not close or open as expected.
CRITICAL: Check Battery Switchgear	Yes	Internal Fault Detected	The battery contactor or breaker did not close or open as expected.
CRITICAL: Check Bypass	Yes	Internal Fault Detected	The Bypass is not oerating as expected.
CRITICAL: Check Bypass Switchgear	Yes	Internal Fault Detected	The bypass contactor or breaker did not close or open as expected. Most UPS's do not have this device.
CRITICAL: Check Heatsink Temperature Sensor	Yes	Internal Fault Detected	A temperature sensor is reading invalid temperatures.
CRITICAL: Check Input Switchgear	Yes	Internal Fault Detected	The Input contactor or breaker did not close or open as expected.
CRITICAL: Check Inverter	yes	Internal Fault Detected	The Inverter cannot re-start.
CRITICAL: Check Inverter Switchgear	Yes	Internal Fault Detected	The Inverter contactor or breaker did not close or open as expected.
CRITICAL: Check Logic Power Supply	Yes	Internal Fault Detected	A logic power supply has failed.
CRITICAL: Check Parallel Board	Yes	Internal Fault Detected	Board Failure Powerware Plus

CRITICAL: Check Power Supply	Yes	Internal Fault	A logic power supply has
Chilleat. Check Fower Supply	163	Detected	failed.
CRITICAL: Check Precharge	Yes	Internal Fault	The pre-charge circuit did not
Chirron E. Check Treehange	763	Detected	charge the DC Link as
		Bettetted	expected.
CRITICAL: Check Static Switch	Yes	Internal Fault	The static switch is not
		Detected	operating as expected.
CRITICAL: Configuration Error	Yes	Internal Fault	Typically occurs during
, , , , , , , , , , , , , , , , , , ,		Detected	servicing.
CRITICAL: DC Link Over Voltage	Yes	Internal Fault	This alarm could occur during
, and the second		Detected	transient condition or could
			be an indication of failure.
CRITICAL: DC/DC Converter Tripped	yes	Internal Fault	The DC/DC converter
, , , , , , , , , , , , , , , , , , , ,		Detected	shutdown due an alarm
CRITICAL: Internal Communication Failure	Yes	Internal Fault	CAN Communications failed
		Detected	
CRITICAL: Inv AC Over Voltage	Yes	Internal Fault	Could be due to a transient or
		Detected	failure
CRITICAL: Inverter AC Over Voltage	Yes	Internal Fault	Duplicate
		Detected	
CRITICAL: Inverter Output Failure	Yes	Internal Fault	The Inverter cannot generate
		Detected	output voltage
CRITICAL: Inverter Startup Failure	Yes	Internal Fault	The Inverter could not start
		Detected	
CRITICAL: Inverter Tripped	yes	Internal Fault	The inverter shutdown due
		Detected	an alarm
CRITICAL: Inverter Under Or Over Frequency	Yes	Internal Fault	This should never happen
		Detected	unless there is a failure
CRITICAL: Loss Of Sync Bus	Yes	Internal Fault	Internal digital signal failure
		Detected	
CRITICAL: MBB Failure	Yes	Internal Fault	This alarm is undocumented
		Detected	
CRITICAL: Output DC Over Voltage	Yes	Internal Fault	The Inverter AC voltage has a
		Detected	large DC component.
CRITICAL: Program Stack Error	Yes	Internal Fault	Board Failure Powerware
		Detected	Plus
External Communication Failure	Yes	Internal Fault	A failure in the external CAN
		Detected	network was detected
MAJOR: Check Charger	Yes	Internal Fault	The charger is not working as
		Detected	expected
MAJOR: Check Fan	Yes	Internal Fault	A Fan has failed
		Detected	
MAJOR: Check Inverter Temperature Sensor	Yes	Internal Fault	The sensor reading is out of
		Detected	range.
MAJOR: Check Rectifier	Yes	Internal Fault	The rectifier has locked out.
		Detected	This could be due to many
			outages or a failure
MAJOR: Check Rectifier Temperature Sensor	Yes	Internal Fault	
AAAIOD C.L. V. T. C.C. L.	.,	Detected	
MAJOR: Selective Trip Of Module	Yes	Internal Fault	
		Detected	

AMNOR, Inventor A/D Conventor Colf Test Failed	Vaa	Intone of Fault	Donal Failure Domestine
MINOR: Inverter A/D Converter Self-Test Failed	Yes	Internal Fault	Board Failure Powerware
MANAGE Inventor Control Desired Failed Calf Test	Vac	Detected	Plus Board Failure Powerware
MINOR: Inverter Control Board Failed Self-Test	Yes	Internal Fault Detected	Plus
MINOR Invertor CDU Solf Tost Failed	Voc	Internal Fault	Board Failure Powerware
MINOR: Inverter CPU Self-Test Failed	Yes	Detected	Plus
MINOR: Non Volatila Mamory Failura	Yes	Internal Fault	
MINOR: Non-Volatile Memory Failure	res	Detected	The NVRAM battery requires replacement
MINOR: Program Checksum Failure	Yes	Internal Fault	replacement
WillNON. Frogram checksam ranare	163	Detected	
MINOR: Software Incompatibility Detected	Yes	Internal Fault	This should only occur when
winvok. Software incompatibility Detected	763	Detected	flashing the code
Network Not Responding	Yes	Internal Fault	The internal network has lost
Network Not nesponding	163	Detected	communications
CRITICAL: Battery Voltage High	Yes	Internal Fault	Possible Sensing failure,
CRITICAL. Buttery Voltage High	163	Detected	Indicates something may be
		Detected	wrong.
CRITICAL: Check Battery Ground	Yes	Internal Fault	This alarm indicates that
CHITICAL. CITCER Buttery Ground	763	Detected	Battery acid may have leaked
		Detected	and is creating a path to
			ground.
CRITICAL: Check Fuse	Yes	Internal Fault	A blown fuse has been
CHITICAL. CITCER I USC	763	Detected	detected.
MAJOR: Charger Tripped	Yes	Internal Fault	The Charger shutdown due
WASON. Charger Hippea	763	Detected	an alarm
MAJOR: Unable To Charge Batteries	Yes	Internal Fault	An fault was detected and
Will both chapte to charge batteries	7.03	Detected	the battery cannot be
			charged
MAJOR: Rectifier Tripped	Yes	Internal Fault	The Rectifier shutdown due
20		Detected	an alarm
MAJOR: Charger Over Voltage Or Current	Yes	Internal Fault	
zem enarger ever venage er earrent	1.00	Detected	
MAJOR: CRITICAL: Charger Over Temperature	Yes	Internal Over-	
, , , , , , , , , , , , , , , , , , ,		Temperature	
MAJOR: Inverter Over Temperature	Yes	Internal Over-	
, , , , , , , , , , , , , , , , , , ,		Temperature	
MAJOR: Inverter Over Temperature Trip	Yes	Internal Over-	
, and the second second		Temperature	
MAJOR: Rectifier OverTemperature	Yes	Internal Over-	
•		Temperature	
MAJOR: Rectifier Over-Temperature Trip	Yes	Internal Over-	
,		Temperature	
MAJOR: Static Switch Over Temperature	Yes	Internal Over-	
,		Temperature	
MAJOR: Transformer OverTemperature	Yes	Internal Over-	
, , , , , , , , , , , , , , , , , , , ,		Temperature	
MAJOR: UPS Cabinet OverTemperature	Yes	Internal Over-	
		Temperature	
CRITICAL: Load Dumped (Load Power Off)	Yes	Load Power Off	
	1		
MINOR: L1 Overload	Yes	Output Overload	

Yes	Output Overload	
Yes		
Yes	· ·	
Yes	· · · · · · · · · · · · · · · · · · ·	
	·	
	· ·	
	· ·	
	·	
	· · · · · · · · · · · · · · · · · · ·	
Yes		
Yes	·	
Yes	Output Overload	
Yes	Shutdown Imminent	
yes	Ambient UnderTemperatur e	The Room is cold, have the customer check
Yes	Batteries	
	Disconnected	
Yes		Bypass phases are rotated.
Yes	Emergency Shutdown	
Yes	High Output Current	A load short was detected
Yes	High Output	This could be due to a load
Ves		transient or failure This could be due to a load
763		transient or failure
Yes	High Output	This could be due to a load
Vaa		transient or failure
res		
Yes		Site issue, possibly sensing
	of Tolerance	failure.
Yes	Input Source Out	Site issue, possibly sensing
	of Tolerance	failure.
Yes	_	
Voc		
168	, ,	
Yes	-	This could be a high bypass
	Out of Tolerance	or failure
Yes	System Not	
	Redundant	
Yes	•	
Vos		
res	ого он вуриза	Faton PredictPulse User Hel
	Yes Yes	Yes Output Overload Yes Shutdown Imminent Yes Ambient UnderTemperatur e Yes Batteries Disconnected Yes Bypass Source Out of Tolerance Yes Emergency Shutdown Yes High Output Current Yes Input Source Out of Tolerance Yes Output Voltage Out of Tolerance Yes System Not Redundant Yes System Not Redundant

CRITICAL: DC Link Under Voltage	Yes	On Some products this could be normal. If due to a failure, other alarms will activate.
CRITICAL: Inverter AC Under Voltage	yes	On some products, this alarm is active when the Inverter shuts down.
CRITICAL: Inverter Off Command	yes	User Command
CRITICAL: Load Off Command Executed	yes	User Command
CRITICAL: Output Switchgear Open	yes	
CRITICAL: To Bypass Command	yes	
MAJOR: Battery Test Failed	yes	This is a nuisance alarm on some products. It activates if battery test does not run due to light load. If the test detects a failure "Check Battery" will activate.
MAJOR: System Alarm Active	yes	

User roles, preferences

PredictPulse users can be either **administrators** or **users**. The first customer to enroll in any organization account is the default "administrator". **Administrators** have special privileges including ability to manage other users, adding and deleting devices, escalation preferences (who should get notification calls first) and overall account security. There can be multiple administrators, but there must always be at least one user with the role of administrator. Contact Eaton support if you need help with reassigning **administrator** roles or if an administrator has left your organization.

Users can manage their own preferences, activate new devices and edit personal contact information, but cannot invite other users or change devices.

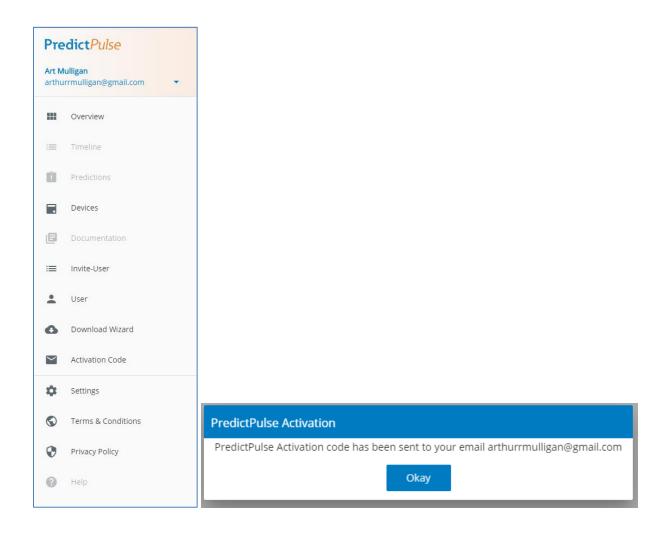
Inviting other users

Administrators can invite other users. Click the button "Invite-Users" from the bottom bar or side menu. You will be prompted for the name, email address and role type (administrator or user). Once the invited user has completed their enrollment and has access to your account, their status will display as "registered". Users that have not completed enrollment will be displayed as "invited".

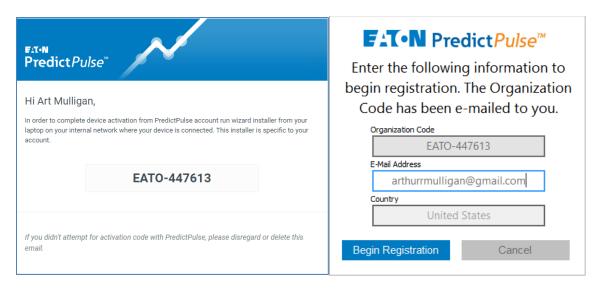
Activating devices

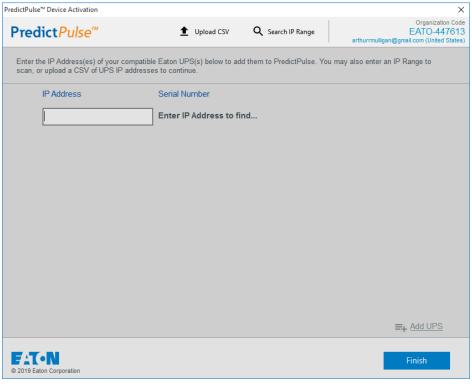
A new account may have devices previously activated or, typically, no devices will be displayed. From a non-mobile device (laptop) on the same internal network as the device ready for PredictPulse, click the "activate device" button from the side menu. *Note: this cannot be done on a mobile device.*

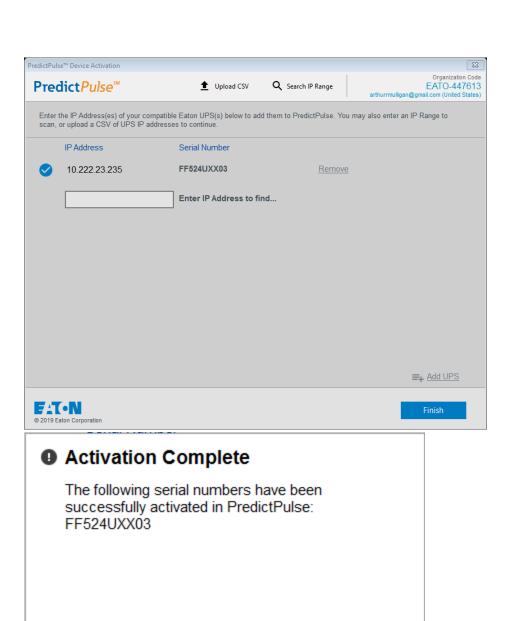
Follow the prompts by entering the device IP address, your email address, and submit. The activation wizard will configure the network card and start sending outbound emails to PredictPulse. For help contact Eaton support.



(Upper left) Sidebar > Download Wizard > screen confirmation, (lower left) email with Activation code, pop-up screen for Oragnization Code and email address > Wizard tool with prefilled Organization and user info,. ready for IP address







Close

User enrollment and administrators

New users enroll online at https://www.predictpulseapp.eaton.com/login using a two-step authentication process for security. Required information to get enrolled includes a valid email address, mobile (or phone) number, and unique password. After submitting the initial user enrollment request, a verification email is sent enabling you to complete your enrollment.

The first user enrolled is designated as an "administrator" for the account and can invite any number of other users. There can be an unlimited number of administrators, but every account must have at least one administrator capable of managing other approved users. If at any time an administrator leaves the company or no longer wants to be an administrator, any authorized user can contact Eaton PredictPulse support and another user can be designated as an administrator. There's no limit on the number of users.

Inviting other users

Administrators can invite, using the sidebar, other users or coworkers to enroll in PredictPulse either as a user or as an administrator. If you're not setup as an administrator and want other coworkers to have access to your PredictPulse account, you should contact your administrator and have them invite the user(s). You may also contact Eaton PredictPulse support and additional users can be invited. The customer's administrators ultimately have authority to manage, control, invite and delete all users. Once a new user is enrolled they can view all device data associated with the account.

Troubleshooting

Login or not getting updates - you may need to clear your browser cache or click your reload button to refresh the PredictPulse app occasionally. New features and updates will be released over time and clearing the browser cache often corrects login or data visibility issues.

Cannot see Activation Wizard – this feature is only displayed on browsers (laptop) where the screen size is 1024 x 926 or higher; mobile devices cannot see this feature

Greyed out selections – in several screens, buttons may be grey and nonfunctional. Certain features will be added or turned on or off based on your subscription. Activation wizard will only appear on a laptop browser and schedule service > call Eaton will only work on a mobile device.

Missing load trend chart – new devices without any history will display a blank or "missing load trend" until data has been collected over at least 2 days. If a device stops sending data a trend chart may have a gap indicating missing data.

Lost communication – devices will occasionally miss sending an email to PredictPulse. After two consecutive missed heartbeats, or telemetry emails, PredictPulse will automatically display a status of Lost Communication. Once a device sends an email the status will revert to normal or its condition. Typically, this issue is due to a customer communication network change beyond the control of Eaton. A lost comms restored email will be sent upon restoration.

Partial telemetry – occasionally a device will send an email and one of the required data attachments is incomplete, incorrect or a value may be missing. PredictPulse will display valid information but certain values may be null or displayed as "—". Check if you have the latest firmware. Go to Eaton's web site, www.eaton.com, and search for "network connectivity card" resources to download the latest firmware.

Questions? 24x7 (USA call 800-843-9433, option 2, option 5 or email predictpulseoperations@eaton.com)

Glossary of terms

Activation wizard: executable tool downloaded from laptop sidebar to configure a UPS device to send data to PredictPulse

Administrators: Administrators can invite, using the sidebar, other users or coworkers to enroll in PredictPulse either as a user or as an administrator.

Alarms: defined by the device and include critical and urgent alarms, which may be informational or urgent. PredictPulse assigns alarms to categories like "On Battery", "Internal Fault Detected", etc. and a call to the customer point of contact for urgent alarms requiring an Eaton field technician site visit or advanced exchange will be conducted by the Monitoring team.

Battery state of charge: indicator of battery charge. 100% battery indicates the batteries are fully charged.

Battery Time Remaining: estimated battery run time available based on current load and battery charge. Based on UPS data.

Devices: infrastructure equipment (Eaton UPS's) capable of being monitored by PredictPulse, with an IP address, network card and access to a SMTP email network or wireless broadband network (4G/LTE). A parallel UPS would equal two devices since each UPS can be monitored separately.

Device list view: list view screen viewed after clicking on home page; displays all subscribed devices

Device Detail view: most detailed view of a single device, scroll to view all related information, alarms and health

EULA: end user license agreement, terms of use and terms and conditions

Events: Non-device information. Lost communications, partial telemetry and ambient high temperature are examples.

GDPR: global data privacy regulations

Load: percentage of available UPS power protecting connected loads. A 60% load percentage indicates that 60% of the UPS is being used and another 40% is available.

Lost communication – devices will occasionally miss sending an email to PredictPulse. After two consecutive missed heartbeats, or telemetry emails, PredictPulse will automatically display a status of Lost Communication. Once a device sends an email the status will revert to normal or its condition. Typically, this issue is due to a customer communication network change beyond the control of Eaton. A lost comms restored email will be sent upon restoration.

Users: can manage their own preferences and contact information but cannot invite other users or change devices.

Organization: a single account with users and devices. Enrolled and registered users will all see the same information.

Organization Code: PredictPulse assigns a unique organization code upon initial account set-up to maintain multi tenancy data privacy. Only users enrolled within the same organization code can see data from an account.

Overview page: home page or main page viewed after logging in

Partial telemetry – occasionally a device will send an email and one of the required data attachments is incomplete, incorrect or a value may be missing. PredictPulse will display valid information but certain values may be null or displayed as "—". Check if you have the latest firmware. Go to Eaton's web site, www.eaton.com, and search for "network connectivity card" resources to download the latest firmware.

Predictions: predictive alerts for PredictPulse Insight subscribers. This will indicate one or more components health conditions need attention and an Eaton analyst will be in contact to discuss or arrange a site verification visit.

Privacy policy: policy that defines personal data privacy rules

PulseScore: a summary of device conditions including operational status, recent alarms, taking into consideration the alarm criticality, component health, age and service history. When viewing multiple devices, the average of all devices is displayed as an overall score and letter grade (A+ to F). In most situations Eaton offers extra credit points where the score can be greater than 100. This health score is dynamic and can change at any time.

SMS: short text messaging system.

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