

Alerts Quick Start Guide

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Alerts Quick Start Guide

The Wattmon Alerts package will allow you to generate and export alerts over mqtt

Installation of Alerts Package

To install the latest package, go to *Control Panel > WattmonOS Updater*

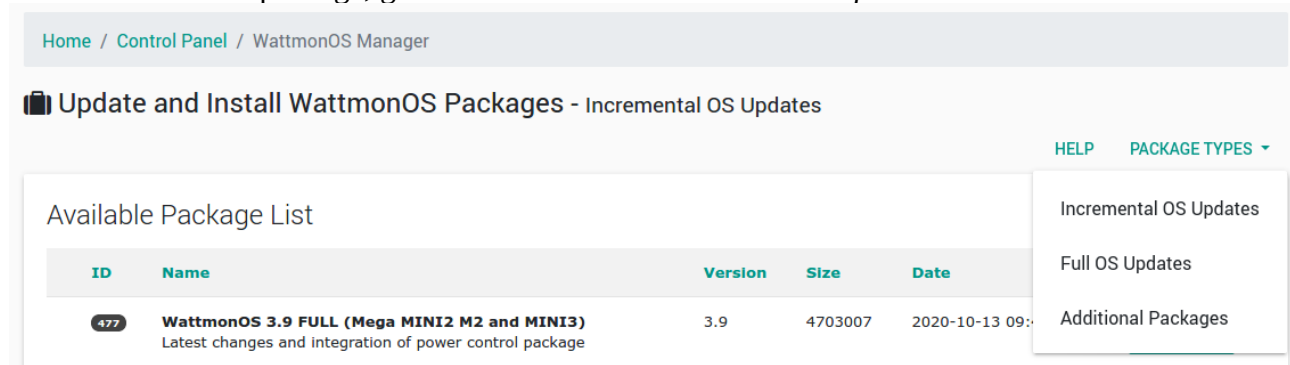


Figure 1: WattmonOS updater page

Under *Package Types > Additional packages*, search for and install the latest Alerts package. Once installed, go to *Control Panel > Package Manager*, and select *Rescan Folder*. You will see a list of all available packages. Next, click *Action > Install* to the right of the Alerts package in the list. Once installed, you can go to *Action > Configure* for the package to set it up. After a reboot you will also see the Alerts option in *Control Panel* as shown below.

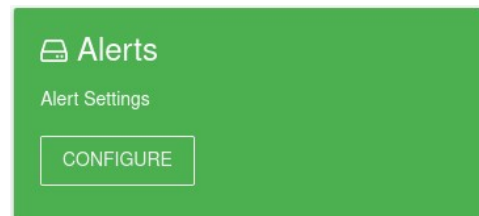


Figure 2: Alerts Button in the Control Panel

Alerts Configuration

The Alerts configuration page lets you set up the alert options.



Alerts

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Notification Settings

Send Alerts via Wattmon EMS Cloud

- ☐ Disabled
☒ Enabled

Include alerts while exporting data - processing will be as per the EMS server notification settings

Send SMS Alerts

- ☐ Disabled
☒ Enabled

Send an SMS when an event occurs

SMS Phone Number

SMS Number

Enter your SMS Number to receive alerts if your device has a SIM integrated

Send Email Alerts

- ☐ Disabled
☒ Enabled

Send an Email when an event occurs

Email address

Email address

Enter an email address to receive alerts

Send MQTT Alerts

- ☐ Disabled
☒ Enabled

Send an MQTT when an event occurs

MQTT Channel

/id2/alerts/

Send an alert on an MQTT channel

MQTT Server

- ☒ Server 1
☐ Server 2

Select the MQTT server to use

MQTT Format Script

/package/alerts/alert_json.inc

Enter a custom script for formatting MQTT messages - leave blank to ignore

Min alert interval

1

Minimum interval between alerts in minutes

Event Settings

Log when inverter offline 2

Log when inverter offline more than x minutes

Alert on Grid Failure Enabled

Alert when curtailing inverter output Enabled

Alert when stopping inverter curtailment Enabled

Alert on Grid Power Returns Enabled

Alert when Genset Switched On Enabled

Alert when digital input is turned on Enabled

Figure 3: Alerts Configuration Options

The options are described below:

Option	Description
<i>Send Alerts via Wattmon EMS Cloud</i>	Enable this to sync alerts to the EMS cloud which will then result in a WhatsApp or Email alert via ems.wattmon.com
<i>Send SMS Alerts</i>	Send an alert via SMS (if SIM is present)
<i>SMS Phone Number</i>	Phone number to receive SMS on
<i>Send Email Alerts</i>	Send alerts via Email (if SMTP is configured)
<i>Email Address</i>	Email address to send alert to
<i>Send MQTT Alerts</i>	Enable or disable sending of alerts over MQTT
<i>MQTT Channel</i>	Channel to publish to
<i>MQTT Server</i>	Use first or second MQTT server – install the MQTT2 package to configure the servers
<i>MQTT Format Script</i>	Script to generate the MQTT message – leave blank to just send the alert message without formatting. By default <code>alert_json.inc</code> will format it with basic JSON formatting which can be edited.
<i>Min Alert Interval</i>	Minimum interval at which to send alerts
<i>Log when inverter offline</i>	Number of minutes to wait before offline alert for device
<i>Alert on Grid Failure</i>	Send alert whenever grid meter goes off
<i>Alert when Curtailing Inverter output</i>	Send alert whenever an inverter percent goes less than 100
<i>Alert when stopping inverter curtailment</i>	Send alert whenever all inverters go back to 100%
<i>Alert on Grid Power Returns</i>	Send alert when grid meter powers up again
<i>Alert when Genset Switched On</i>	Send alert when the genset meter powers up
<i>Alert when digital input is turned on</i>	Send an alert when any of the 4 digital inputs on Ultra, Mega2, Mega2-4G are turned on

Custom Alerts

In addition to the built-in alert conditions above, the Custom Alerts card lets you define your own alert rules without needing a custom script. Each rule compares either a device role or a global variable against a set point, and fires an alert once the condition has been continuously true for a configurable wait time.

If the value reverts back across the set point before the wait time elapses, the alert is not sent - this avoids false alerts from brief spikes or dips. Once a rule has fired, it will not fire again until the condition clears (the value crosses back over the set point) and then stays past the set point for the wait time once more, so a persistent fault only notifies you once rather than on every check.

Custom Alerts

+ ADD

ID	Source	Condition	Wait	Severity	Message	Options
1	device1_SoC	< 39	60s	CRITICAL	Battery low: {{device1.SoC}}% at {{device1.Battery_Voltage}}V	ACTION ▾
	Device Role	Is Less Than	Seconds ▾	Critical	Battery low: {{device1.SoC}}% at {{device1.Battery_	
	device1_SoC	39	Condition must stay true this long before the alert fires		Leave blank for an auto-generated message, or write your own and include live values with {{(deviceName.roleName)}} for a device role, or {{(varname)}} for a global variable	
2	\$test_message	== 1	1s	CRITICAL	{{test_message_content!}}	ACTION ▾

Fires once when the condition has been continuously true for the wait time, and won't fire again until the value reverts back across the set point.

Use the *Add* button to create a new rule, and the *Action* menu on each row to edit or delete it. The fields for each rule are described below:

Option	Description
<i>Source</i>	Choose whether this rule compares a Device Role or a named Global Variable.
<i>Device Role</i>	The device variable (from the existing Roles list) to monitor. Only shown when Source is set to Device Role.
<i>Global Variable</i>	The name of a global variable to monitor, e.g. one set by a custom script. Only shown when Source is set to Global Variable.
<i>Condition</i>	Is Less Than, Is Greater Than, Is Equal To, or Is Not Equal To - compared against the set point value entered alongside it.
<i>Wait</i>	Number of seconds the condition must stay continuously true before the alert actually fires.
<i>Severity</i>	Info, Warning, Error, or Critical - passed through to MQTT, Export, SMS and Email the same way as any other alert.
<i>Message</i>	Optional custom message. Leave blank for an auto-generated message, or write your own and include live values with

	{{devicename.rolename}} for a device role, or {{varname}} for a global variable. Numeric values are rounded to 2 decimal places; text values (e.g. from a custom script) are included as-is.
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Tip: a saved change to Custom Alerts, like most other settings on this page, takes effect after a reboot of the device.