Efento Cloud Users Manual

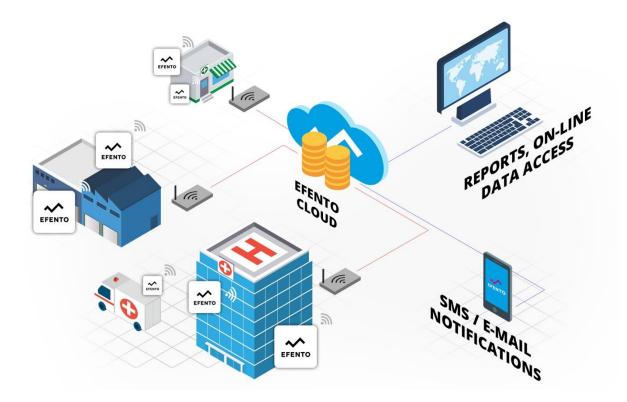




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1. Registration and logging in Efento Cloud

Using Efento Cloud system requires creating and account. In order to register and account go to <u>efento.cloud.io</u> and click on Register button. You will be asked to insert data required in registration process (username, name, surname, e-mail address, password) and also to accept the terms of use of Efento Cloud platform. A message containing activation link will be send on the e-mail address you have inscribed. After filling every required field, click on *Register* and then open activation link on your e-mail box. After you have clicked on the activation link, your account should be activated and you should be able to log in.

Users that already have an registered, active account, may skip above described steps and log in by inserting their e-mail address / username and password on <u>efento.cloud.io</u>.



2. Registration of Organization

Organization allows you to share measurement data from sensors with many other users. Additionally, as a part of Organization, you can create a structure of localizations which will allow you to organize your sensors. Users with access to your Organization can be given a specific permissions to view and modify individual localizations. Organization has its own unique key, that allows you to assign sensors to it. It can be done by inserting Organization key in to Efento Gateway configuration. Efento Gateway is a device that sends measurements from wireless sensors to Efento Cloud. All mentioned features will be described in detail later in this manual.

If you have registered in Efento Cloud and you are not a member of any Organization, you will be asked to create a new one and to chose its name and abbreviation. After you insert this data, you will be able to fully manage your Organization, invite new members and configure sensors connected with your Organization. If a user has been invited to an already existing Organization, then he will be automatically assigned to it after registration process.



3. Configuration of Efento Gateway

Efento Gateway is a network device, that downloads data from wireless sensors that are in its range and send it to Efento Cloud. The device may be powered by USB power supply (5V, 1A) or by PoE (802.3af).

3.1. Configuration of network settings

First thing you need to do in order to send data from sensors to Efento Cloud platform, is to configure Efento Gateway settings. To do this, connect the Efento Gateway to power supply with USB cable and to the computer by Ethernet cable. After setting the connection, choose the IP address from subnet 192.168.120.0/24 (e.g. 192.168.120.2, subnet mask 255.255.255.0) and set it on the network card, to which Efento Gateway is connected. Next open a Internet browser on your computer and go to address 192.168.120.89 (default Efento Gateway address).

Configure the Efento Gateway, so that it has Internet access. In *Configuration* section configure all network connection settings (IP address of the Efento Gateway, IP address of network gateway, subnet mask, DNS address). Apply all changes by clicking *Save*. Efento Gateway supports DHCP. If you chose option *ON* next to DHCP, then all network configuration of Efento Gateway will be downloaded from router (Do not forget to turn on the DHCP on router!). After finishing this part of configuration, unplug the Efento Gateway from computer and connect it to the network with Ethernet cable. Efento Gateway can be powered by PoE (Power over Ethernet). If you have a switch / router / injector that supports PoE technology (802.3af), then you can plug in only Ethernet cable, which will set up a connection to network and will also work as a power supply. Otherwise you also have to plug in a USB power supply (5V, 1A).

3.2. Organisation token

Organisation token is a unique number assigned to your Organisation. After inserting the token in Efento Gateway configuration, all measurement data from all sensors within its range will be automatically send to your Organisation account in Efento Cloud. One Organisation token can be inscribed in many Efento Gateway devices, located in areas far away from each other. Thanks to that, measurement data can be send to your Organisation account from many places away from each other, even hundreds of kilometres. You can find your Organisation token after signing in on your account in Efento Cloud. Mouse over the abbreviated name of your Organization, in the upper right corner of the page, and then click the Organisation token.



~	EFENTO CLOUD				×		ل JS Ltd ~	John Smith 🗸
Dashboard	ta Structure	9						^
	~ Poland (POL)							
Reports	Warsaw (WAW)	Organisa Required to send measu	tion token rements to the ap	plication	Status 👻 🛋	Temperature, Pr	Value 🖛	×
Alarms	 Cracow (CRA) 	John Smi	th Limited		٥	₿ 27.1 °C	23:12	*
	Downtown (DWN)	4789a310-6d94-438					2016/08/18	
Rules		E2 01 00 01 00 38	0	WAW	0	₿° 25.3 °C	2016/08/22	*
Users		Test E2 01 00 01 00 90	0		0	₿° 25.6 °C	22:06 2016/08/22	*
		Manager E2 01 00 01 00 E4	0		ø	₽ 25.3 °C	22:06 2016/08/22	*
Configuration		Humidity E2 03 00 01 00 93	0		ø	₿° 25.7 °C	22:06 2016/08/22	*
_		The Sensor E2 03 00 10 20 30	0		ø	₿° 27.0 °C	23:20 2016/08/18	*
_								*

Organisation token should be inscribed in field *Key* on Efento Gateway configuration page. After inscribing the token, measurements from all sensors within Efento Gateway range will be automatically send to Efento Cloud platform and assigned to your Organisation. If you have inscribed the token, go to **cloud.efento.io**, then to menu *Configuration* and check if there are serial numbers of sensors within Gateway range in section *New Sensors*. A list of sensors that are within Efento Gateway range can be checked on its configuration page in section *Sensors*.



4. Dashboard- preview of sensors added to Efento Cloud platform

Menu *Dashboard* presents measurements and other important information about all sensors added to your Organisation in Efento Cloud. You will find there: current sensors measurements with date and time of the measurement, the number of alarm occurrence, the localization of sensor in your Organisation structure. In column *Alarms*, you can see the number of unconfirmed alarms for each sensor (active alarms and those waiting to be confirmed). *Dashboard* can be used only to view information, without the ability to modify any settings. That is why every user in your Organisation can access it, no matter what role he/she has (Analyst / Manager / Admin). Additionally you can give users access only to selected localization. As a result of that, *Dashboard* will show information about sensors from localization, to which a user has at least permissions of Analyst.

4.1. Filtration of displayed information

Data displayed in *Dashboar*d can be filtered, so that you can easily find information you need. The first method of filtration is based on location. In section *Structure*, on the left side of *Dashboard*, choose the location you are interested in and the list of sensors will show only sensors from that location. The next methods described in this manual works only on sensors from selected location.

The second method of filtration is searching the sensor by name or by its serial number. There is a field called *Name / Serial number* in the header of list which presents information about sensors. Insert in that field a serial number or name of a sensor which you wish to find and the list will only show the information you are interested in. If a couple of sensors have similar name / serial number then typing in a part of it will filter the list, leaving only sensors that include inscribed phrase. In order to remove all filters and get back to default sorting, click cross mark on the right side of list's header.

Sensors can be also sorted by any value from the list. To do that click arrows symbol next to selected value (Name / Serial number; Alarms; Loc.; Status; Value). You can also choose the type of sensor's measurement (temperature / humidity / pressure), to, for example, display only sensors measuring humidity. To do that, click the header of the last column on the list and mark what values you are looking for.

board	t <mark>a</mark> Structure	List Location map						
	~ Poland (POL)	Sensors: Poland (POL)					0 🛇 😆	
<u>]</u>	Warsaw (WAW)	Name / Serial number	▲ Alarms ▼▲	Loc. 💌	Status 💌	Temperature, Pr	Value 💌	×
ms	 Cracow (CRA) Downtown (DWN) 	Office E2 01 00 01 00 01	0	DWN	۵	≗ 27.1 ℃	23:12 2016/08/18	*
ا ا ت ک ا ا		Warehouse E2 01 00 01 00 38	0	WAW	0	≟ : 25.3 ℃	22:06 2016/08/22	
		Test E2 01 00 01 00 90	0	POL	۲	≟ 25.6 °C	22:06 2016/08/22	*
ers		Manager E2 01 00 01 00 E4	0	CRA	۲	Ĵ≟ 25.3 °C	22:06 2016/08/22	
uration		Humidity E2 03 00 01 00 93	0	POL	۲		22:06 2016/08/22	*
		The Sensor E2 03 00 10 20 30	0	POL	8	₽ 27.0 °C	23:20 2016/08/18	

The fourth method of sensor list filtration depends on sensor's status: Disabled, Working, Lost, Warning, Low battery level. The filtration can be enabled by clicking the selected status icon in the right upper corner of the list. It is possible to choose more than one status to display. By default all sensors are being displayed regardless of their status.

Another way of filtering the list is marking selected sensors with a star, by clicking the star icon on the right side of the list. After marking selected sensors it is possible to filter the list, leaving only starred sensors. From the bar above the list click star icon and the list will only display starred sensors.

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oard	ta Structure	List	Location map							
	v Poland (POL)	Senso	ors: Poland (POL)					*	6 🖉 🕲	
orts	Warsaw (WAW)	Name	/ Serial number	▼▲ Ala	arms 🔻	Loc. 🔻	Status 🕶	Temperature, Pr	Value 🕶	×
ي ms	 Cracow (CRA) Downtown (DWN) 	Offic E2 01	e 00 01 00 01		0	DWN	٢	<table-of-contents> 27.1 °C</table-of-contents>	23:12 2016/08/18	*
			house 00 01 00 38		0	WAW	٢	<u>≗</u> 25.3 °C	22:06 2016/08/22	
		Test E2 01	00 01 00 90		0	POL	٢	<u></u> ≝ 25.6 °C	22:06 2016/08/22	*
ers		Man E2 01	ager 00 01 00 E4		0	CRA	•	<u></u> ≩" 25.3 °C	22:06 2016/08/22	
uration		Hum E2 03	idity 00 01 00 93		0	POL	۲	≗ 25.7 °C ● 48%	22:06 2016/08/22	*
			ensor 00 10 20 30		0	POL	8	₿° 27.0 °C	23:20 2016/08/18	

4.2. Location map

Location map allows you to upload a map or a plan of a building. After uploading a map or a plan you can arrange sensors on it, in order to project their real locus and to simplify monitoring their status. Location map can be uploaded by any user with permissions of Administrator or Manager. The platform allows you to upload one map for each location. Sensors preview along with their location on the map can be accessed in *Dashboard* menu in tab *Location map*. The map will display current sensors statuses and their measurements. After clicking the sensor on the map you will be able to see its detailed data. The map can be freely moved (by grabbing it with a cursor and moving it) and also zoomed in / out with "+" and "-" buttons. The map can be also viewed in full-screen mode after clicking the full-screen button located under the "+" and "-" buttons.

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	♀ J5 Ltd × John Smith
Dashboard E Structure	List Location map
Poland (POL)	Poland (POL)
Warsaw (WAW) Q ~ Cracow (CRA)	+ 4/0 100 5500 1
Alarms Alarms Rete Users Configuration	

4.3. Preview of detailed sensor's data

After clicking the sensor on the list in *Dashboard* menu or on a *Location map* you will be able to browse detailed information about the selected sensor such as alarm occurrence with date and time of the occurrence and measurement data in a form of a chart or table. You will also be able to export sensor's measurements from any time period in a form of PDF or CSV report.

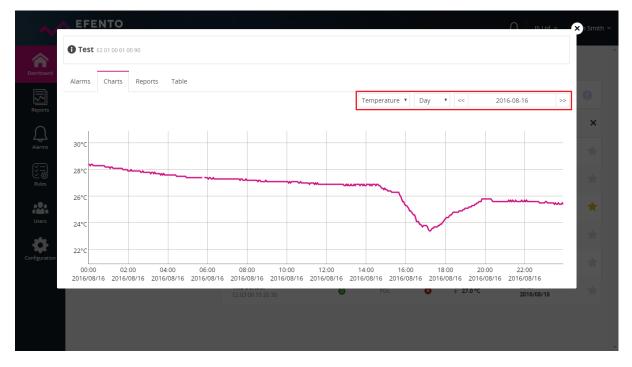
The *Alarm* tab contains a list of occurrence of all kinds of alarms (detailed alarms description can be found in chapter *6. The configuration of alarm rules*). You will find there detailed information about date and time of alarm occurrence and also the reason of alarm initiation including the name of alarm rule. If sensor has got back to its safe state then user can confirm the alarm was seen. After confirming the alarm, the notifications about it will not be displayed again in the platform.

EFEN1	ГО					A IS Ltd. y John S
1 Test E2 01 00 01 0	00 90					
Alarms Charts	Reports Table					
Time 🕶	Value 💌	Cause 💌	Measurement 💌	Rule name 🕶	Recipients 🏊	Status 💌
17:21 2016/08/18	Temperature	Above threshold [threshold 24.0 °C]	24.5 °C	Testing the Test		Active
17:08 2016/08/18	Temperature	Above threshold [threshold 20.0 °C]	24.5 °C	Testing the Test		Active
17:12 2016/08/17	Temperature	Above threshold [threshold 25.0 °C]	26.1 °C	Testing		Confirmed

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The *Charts* tab contains a chart with measurements in time. Depending on the physical values measured by the sensor it can be a chart with temperature, humidity or pressure. In the right upper corner of the chart you can choose what value should be presented on the chart, set the presented timeline (Day / Week / Month) and also choose the time period from which you wish to display data. The chart can be freely zoomed in by selecting the area you are interested in with a cursor. To return to default scale click the *Zoom out* button in the right upper corner of the chart.



The *Report* tab allows you to generate reports with measurements from any period of time. To generate the report choose the date of first and last measurement that should be included in the report and set the measurements density (3 / 15 / 30 / 60 minutes). The report will cover all data sent to the platform by the selected sensor including the list of events (violation of alarm threshold, connection lost, etc.) in previously selected time period and measurements density. After clicking *Export to PDF* or *Export to CSV* button the report will be automatically generated and send to your e-mail address within a few minutes.



EFENTO				
1 Test E2 01 00 01 00	90			
Alarms Charts	Reports	Table		
		From To Entry	Required Required	

The *Table* tab contains a table with all measurements sent by selected sensor including date and time of those measurements. The table allows you to easily access data in need of finding a certain measurement. The date from which you want to browse measurements can be selected from the calendar in the right upper corner of the table.

Image: Control Contecontrol Control Control Control Control Con	A-	EFENTO				Smith Y
Aarms Charts Reports Table Imp. Humidity Presure Imp. Humidity Imp. Imp. Imp. Imp. Imp. Imp. Imp. Imp. Imp. Imp. Imp. Imp. Imp. Imp. <th></th> <th>1 Test E2 01 00 01 00 90</th> <th></th> <th></th> <th></th> <th><u> </u></th>		1 Test E2 01 00 01 00 90				<u> </u>
Temp. Humidity Pressure Measurement If 25.6°C 2016/08/22,2215 If 25.6°C 2016/08/22,2212 If 25.6°C 2016/08/22,2212 If 25.6°C 2016/08/22,2209 If 25.6°C 2016/08/22,2137 If 25.6°C 2016/08/22,2157 If 25.6°C 2016/08/22,2151 If 25.6°C 2016/08/22,2143 If 25.6°C 2016/08/22,2142 If 25.6°C 2016/08/22,2139	Dashboard	Alarms Charts Reports	Table			
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Image: Solution 216/08/22,2215 Image: Solution 2016/08/22,2212 Image: Solution 2016/08/22,2203 Image: Solution 2016/08/22,2157 Image: Solution 2016/08/22,2157 Image: Solution 2016/08/22,2151 Image: Solution 2016/08/22,2148 Image: Solution 2016/08/22,2139	Reports	Temp.	Humidity	Pressure	Measurement	×
Image: 25.6 °C 2016/08/22, 22:09 Image: 25.6 °C 2016/08/22, 21:57 Image: 25.6 °C 2016/08/22, 21:51 Image: 25.6 °C 2016/08/22, 21:48 Image: 25.6 °C 2016/08/22, 21:39	<u> </u>	₿ ° 25.6 °C				
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* 25.6 °C 2016/08/22, 21:48 * 25.6 °C 2016/08/22, 21:45 * 25.6 °C 2016/08/22, 21:45 * 25.6 °C 2016/08/22, 21:42 * 25.6 °C 2016/08/22, 21:42 * 25.6 °C 2016/08/22, 21:42					2016/08/22, 21:54	
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Image: 25.6 °C 2016/08/22, 21:42 Image: 25.6 °C 2016/08/22, 21:39					2016/08/22, 21:48	
₿' 25.6 °C 2016/08/22, 21:39						
₽ 25.6 °C 2016/08/22, 21:36						
0)						



5. Users management

Each user that is assigned to your Organisation, can be granted one of three different levels of permissions: Administrator, Manager or Analyst. Additionally the permissions are granted for specific location. For example the user can be an Administrator in one location and an Analyst in the other one, which allows you to divide permissions and duties between different users for different locations. In Efento Cloud platform permission levels are called roles.

By creating a new Organisation you automatically get a role of Administrator to all its locations. When you invite new users to your Organisation you can grant them any level of permissions to selected locations.

Each group of permissions have access to different platform functions, as presented in the table below:

	Administrator	Manager	Analyst
Dashboard preview	v	v	v
Report generation	v	v	v
Alarm preview	v	v	v
Configuring automatic reports	~	~	×
Configuring alarm rules	 	 	×
Configuring sensors, structures and location maps	~	~	×
Permissions editing, adding and deleting users	~	×	×
System logs preveiw	~	×	×
Managing the Organisation's account	~	×	×



5.1. Adding new users to your Organisation

Adding new users is done by invitations, which can be send only by user with administrator role. In menu *Users* click *Add new user* button. You will see a window which allows you to send invitations to your organisation. You must type in new user's e-mail address and choose his role which will be given to him after accepting the invitation. Roles can be different for different locations. After saving the changes, the new user will receive an e-mail with invitation to your Organisation. After opening the activation link, new user will be redirected to Efento Cloud website. If user does not already have an account in the platform, before joining your Organisation he will have to create one. If the new user has not accepted your invitation yet, you can dismiss it by clicking *Cancel* icon next to the invitation.

~	EFENTO		
	🖉 New user		
Dashboard		Provide an e-mail address of the person you wish to invite to your organisation. If he/she does not have an account, he/she will be asked to create one	
Reports		E-mail	w user
\cap		Required	×
Alarms	ŧE: User roles		Add new role ⊘ ⊗
Rules	Location Downtown DWN	Role 	Q
- Co	Location Cracow CRA Cracow CRA	Role • Admin • Manager • Analyst	o
Users	Cracow CRA Downtown DWN Poland POL Warsaw WAW		Cancel
Configuration			

You can invite any number of users to your Organisation and give them any permissions. Remember that administrator permissions allows the user to access configuration of sensors, users, alarm rules and to edit your Organisation's account, therefore you should not give them to unauthorized persons.

In *Invitations* tab there is a list of generated invitations with their current status: Sending (the invitation is being send), Waiting (the invitation awaits to be accepted), Error (sending the invitation has failed - e.g. wrong e-mail address has been entered), Accepted (the invitation has been accepted by the user and he is now a member of your Organisation). You can filter the invitations by e-mail address to which the invitation has been sent or by its status. If the invitations has not yet been accepted then you can dismiss it by clicking cross icon next to it. If you have cancelled the invitation then even if the user click on the activation link in the e-mail, he will not be able to join your Organisation.



~^				Ĵ JS Ltd ∽ John Smith
Cashboard	Users Invitations			
<u>ال</u>	♥↑ Sent invitations			+ Add new user
	E-mail 💌			v x
Alarms	efento.cloud@gmail.com	Admin Poland	Accepted	0
マート マート Rules	jugowicka@gmail.com	Analyst Poland	Accepted	0
Users				
\$				
Configuration				

5.2. Editing user's permissions and deleting users

Adding and editing users can be done in *Users* menu by users with role of an Administrator.

Editing user's permissions can be done after clicking the pencil icon next to user's name. The editing possibilities include changing user's roles in particular locations of your Organisation.

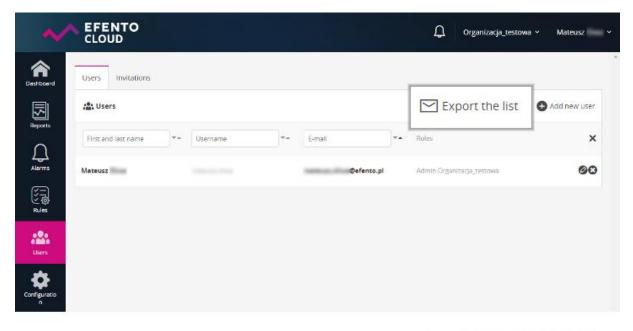
You can also delete users added to your Organisation by clicking cross icon next to their names on the list in *Users* menu. The user's account will not be deleted entirely, he will only lose the access to your Organisation. Only a user can completely delete his account from the platform (see *10.1 Changing username, language and password / deleting the account*).

🖉 Edit user				
First name	Last name		Username	E-mail
John	Smith		jsmith	efento.cloud@gmail.com
Location	Role			Add new rol
Poland POL	 Admin 	Manager	 Analyst 	6
Location Cracow CRA	Role	 Manager 	 Analyst 	e



5.3. Export list of users

Export the users list, when you click the *Export the list* button, a list of users in the PDF file will be generated and sent to your e-mail.





Users listing for Organizacja_testowa

#	User	Username	E-mail	Roles
1	Mateusz	ration: disc	@efento.pl	Admin Organizacja_testowa



6. Configuration of the alarm rules

Alarm rule is a formula that defines what events in Efento Cloud should initiate the alarm. The rule consist of impulse, condition and action, e.g.: if the temperature (impulse) increase above 10 degrees (condition) then the platform will send text message notification to selected recipients (action). The rules can be configured as you wish - e.g. sending notifications to different recipients depending on temperature level; violation of thresholds will be only registered in the platform (without sending a notification) etc.. You can define any number of alarm rules and assign sensors to each of them.

Alarm rules can be configured in *Rules* menu by users with permissions of Administrator or Manager.

6.1. Types of alarm rules

In the Efento Cloud platform you can configure a few different types of rules depending on the impulse that initiate the alarm. These are:

- Violation of threshold (depending on physical value measured by the sensor e.g. temperature, humidity and pressure);
- Low battery level if the sensor's battery is low then the platform will inform you about it. After initiation of low battery alarm the senor will work for about 21 days;
- Connection lost a situation in which the senor does not send measurements to the platform for 15 minutes.

6.2. Configuration of the alarm rules

In order to add a new alarm rule go to *Rules* menu and click *Add new rule* button in the right upper corner. The first field you need to fill is the rule's name, which can be maximum 20 characters long. Next choose what type of event should initiate the alarm. If you have chosen option temperature / humidity / pressure, then you also have to choose whether the alarm should be initiated after exceeding the upper threshold (the value increase above selected threshold) - option *Upper* or after exceeding the lower threshold (the value decrease below selected threshold) - option *Lower* and key in the threshold value in selected field. In case of alarm rules that cover low battery level or connection lost you do not need to fill any additional fields.

When creating an alarm rule, the user can enter in the "Alarm delation" field the time in minutes after the alert will be on. For example: If the temperature exceeds the defined range and will stay out of this range for number of minutes defined in the field "Alarm delation" the alarm will be on. In the second case when the temperature returns to safe range the alrm will not turn on. If the user wants the alarm to be triggered immediately, the value in "Alarm delatation" field should be set to "0".



On the right side of the configuration window there is a notification's recipients adding panel. You can add e-mail addresses and telephone numbers. Not adding any recipient will result in displaying the notifications only in Efento Cloud platform. After keying in the e-mail address / telephone number apply the changes with *Add* button. You can type in any number of recipients. The e-mail notifications are free of charge, but if you would like to receive text message notifications, then it is necessary to have the Efento platform text message balance topped up (the description of topping up the balance is in chapter *11. Charging the text message balance*).

The last step of configuring the alarm rule is choosing the location and sensors it should cover. In order to do that from the drop-down list below the rule's name field choose a location to which the rule should be assigned. Then, in order to find a specific sensor, in section 1. Select a location you can browse the subordinate locations of the location you have previously chosen. Next from the field 2. Sensors, choose the sensors that should be assigned to the alarm rule. Selected sensors will be marked with a check symbol on the right side of their name. After selecting the sensors you can verify which ones you have chosen by clicking *Show assigned* button - the list will only display selected sensors. In order to apply the changes click *Save*. From this moment the rule is active until its removal. The alarm rule can be edited anytime by clicking it on the rules list.

~^	EFENTO CLOUD						ل JS Ltd	✓ John Smith [•]
Cashboard	E Rules						C	Add new rule
Reports	Rule name	Sensors / serial	**	Value 💌	Type 💌	Threshold 🏊	Recipients	×
Ĵ	Low batt	(5)		Low battery				008
Alarms	Sensor lost	(5)		Lost				008
マート Rules	Testing	Test E2 01 00 01 00 90		Temperature	Upper	31.0 °C		008
Users								
Configuration								



Test Rule		Recipients xyz@efento.pl		
Select location this rule belongs to		Add new recipient		
		Phone number or e-mail		Add
Value Temperature Humidity	Type Lower Upper			
PressureLow battery				
- ·				
Open/Closed				
Open/Closed				
Open/Closed Threshold 20 °C				
Open/Closed Threshold 20 C				
© Open/Closed Threshold 20 ℃				
Open/Closed Threshold 20 °C Atarm delation 0	2. Sensors (with parameter	: Temperature)		
Alarm delation	2. Sensors (with parameter Name / Serial number	: Temperature)	Show ass	signed



6.3. Export list of alarm rules

Export the alarm rules list, when you click Export *the alarm rules list* button, a list of all alarm rules in the PDF file will be generated and sent to your e-mail.

~	EFENTO CLOUD					D org	anizacja_testowa 🗸	Mateusz 🗸 🗸
Cashboard	🕞 Rules				Expo	ort the alarm	rules list	Add new rule
Reports	Rule name	Sensors / serial	**	Value 🕶	Type 🕶	Threshold 💌	Recipients	×
Alarms	Testowa	Temp E1 01 0F 09 01 BF		Temperature	Upper	30.0 °C	(1)	Ø98
Refer								
Users								
Configuracio n								



#	Rule name	Sensors	Value	Туре	Threshol d	Mobile recipients	E-mail recipients
1	Testowa	Temp	Temperature	Upper	30.0°C		

Alarm rules listing for Organizacja_testowa



7. Configuration

In the *Configuration* menu you can add new sensors to the platform, configure their settings and manage locations. Only users with permissions of a Administrator or Manager have access to this menu.

7.1. Adding sensors

In order to start saving the sensor's measurements in Efento Cloud platform and to be able to use all platform's functions (text message notifications, automatic reports etc.) you need to activate the sensor in platform by keying in its Cloud Key. Cloud Key is a unique, six character number which is assigned to each sensor. To activate the sensor in the platform go to *Configuration* menu. In section *New sensors* there is a list of sensors whose measurements are send to Efento Cloud by the Efento Gateway and that can be activated. In order to add a sensor click the lock icon next to sensor's serial number. In the pop-up window type in the Cloud Key. If the entered Cloud Key is valid then after clicking *Save* button the sensor will be activated and you will see a configuration window. Enter new sensor's name (by default all sensors are named Efento) which will be displayed in the platform with its serial number. You also need to choose a location to which the senor will be assigned. After doing that click *Save*. If you want to change sensor's name or move it to other location in the future, you will be able to do that anytime. The description of how to do this is included further in this chapter.

~^	EFENTO CLOUD			♫ j5 Ltd マ John Smith
Cashboard	t Structure		Sensors Location map	
N	~ Poland (POL)	00	🖉 Edit 😢 Remove 🕲 Disable 🔿 Enable	6 🛇 8 🗉 🌖
Reports	Warsaw (WAW)	000	Name / Serial number The Loc. Loc. Status Notifications	Added 🖡 Active 🖡 🗙
Alarms	~ Cracow (CRA) Downtown (DWN)	000 000	Office E2 01 00 01 00 01	19:56 23:12 2016/07/04 2016/08/18
v v v v v v v v	A New sensors		■ Warehouse E2 01 00 01 00 38 WAW ♥	16:32 22:27 2016/07/13 2016/08/22
	Serial num.	×	E2 01 00 01 00 90 POL	19:56 22:27 2016/07/04 2016/08/22
Users	E2 00 BB BB BB 02 201	27 16/08/22	■ Manager CRA ♥	17:11 22:27 2016/07/18 2016/08/22
onfiguration	E2 01 00 01 00 7F 201	27 16/08/22	E2 03 00 01 00 93 POL	18:28 22:27 2016/08/11 2016/08/22
	E2 01 00 01 00 94 201	27 16/08/22	The Sensor POL O E2 03 00 10 20 30 POL O	17:40 23:20 2016/08/17 2016/08/18
	E2 01 00 01 00 EE 201	27 16/08/22		
	E2 01 00 01 00 F0 22: 201	27 16/08/22		



\sim	EFENTO CLOUD						×			Ĵ JS Ltd ∽	John Smith ~
Dashboard	te Structure				A						
	~ Poland (POL)		+ Ø								
Reports	Warsaw (WAW)		008	Provide Clou	d Key for sensor E2	0100010094		Notifications T	Added 🖛	Active 🖛	×
Alarms	 Cracow (CRA) 		008						40.55	22.42	
			000	Save		Cancel			19:56 2016/07/04	23:12 2016/08/18	080
Rules	le New sensors			E2 01 00 01 00 38		WAW	0		16:32 2016/07/13	22:27 2016/08/22	080
Users	Serial num.	**	×	E2 01 00 01 00 90		POL	•		19:56 2016/07/04	22:27 2016/08/22	000
\$		22:27 2016/08/22	6	Manager E2 01 00 01 00 E4		CRA	•		17:11 2016/07/18	22:27 2016/08/22	080
Configuration		22:27 2016/08/22	6	Humidity E2 03 00 01 00 93		POL	•		18:28 2016/08/11	22:27 2016/08/22	080
	E2 01 00 01 00 94	22:27 2016/08/22	6	The Sensor E2 03 00 10 20 30		POL	8		17:40 2016/08/17	23:20 2016/08/18	080
		22:27 2016/08/22	6								
		22:27 2016/08/22	•								

7.2. Editing sensor's name and location

To change sensor's name and/or location click it on the list. In the upper part of the editing window change sensor's name and/or location and save the changes with *Save* button. You can also edit several sensors at once by marking the checkboxes on the left side of their names and then by clicking *Edit* button above the list. In the pop-up window type in new sensors' name, choose their new location and save the changes with *Save* button. All selected sensors will be given the same name and will

	E FENTO CLOUD								Ĵ ⊃ Iz rtq ~	John Smi
hboard	t Structure			Sensors Location map						
	~ Poland (POL)		00	🖉 Edit 😢 Remove 🎱 Disabl	e 📀 Enabl	le			6 🛇 8	
orts	Warsaw (WAW)		000	Name	Loc. 💌	Status 💌	Notifications 🔻	Added 💌	Active 💌	×
	~ Cracow (CRA) Downtown (D	DWN)	000 000	Location - no changes -	DWN	۵		19:56 2016/07/04	23:12 2016/08/18	080
	🚭 New sensors			Cancel Save	WAW	٢		16:32 2016/07/13	22:27 2016/08/22	000 0
ers	Serial num.		×	Test E2 01 00 01 00 90	POL	٢		19:56 2016/07/04	22:27 2016/08/22	08 0
	E2 00 BB BB BB 02	22:27 2016/08/22	Ð	Manager E2 01 00 01 00 E4	CRA	۲		17:11 2016/07/18	22:27 2016/08/22	08 0
ration	E2 01 00 01 00 7F	22:27 2016/08/22	0	Humidity E2 03 00 01 00 93	POL	•		18:28 2016/08/11	22:27 2016/08/22	080
	E2 01 00 01 00 94	22:27 2016/08/22	0	The Sensor E2 03 00 10 20 30	POL	8	\bigcirc	17:40 2016/08/17	23:20 2016/08/18	ଡ େଡ
	E2 01 00 01 00 EE	22:27 2016/08/22	6							
	E2 01 00 01 00 F0	22:27 2016/08/22	A							



be transferred to the chosen location.

7.3. Disabling and enabling the sensors

If you disable a sensor, its measurements will not be saved in the platform and in case of alarm rules violation the notifications about that sensor will not be displayed. In order to disable a sensor click the *Disable* button on the right side of the sensors list. To enable disabled sensor click *Enable* button, which is located in the same place. If you wish to enable / disable several sensors at once, mark the checkboxes next to their names and then click *Enable* or *Disable* button above the list.

	EFENTO CLOUD								Ĵ ∫3 Ltd ∽	John Smit
board	t Structure			Sensors Location map						
	~ Poland (POL)		€ø	🖉 Edit 🕃 Remove 😃	Disable 📀 Enable				0 🛇 🛛	
rts	Warsaw (WAW)		000	Name / Serial number	▼▲ Loc. ▼▲	Status 🕶	Notifications 🔻	Added 💌	Active 💌	×
<u>)</u> ms	~ Cracow (CRA) Downtown (I	DWN)	000 000	Office E2 01 00 01 00 01	DWN	٢		19:56 2016/07/04	23:12 2016/08/18	ଡଓଡ
	Shew sensors			Warehouse E2 01 00 01 00 38	WAW	•		16:32 2016/07/13	22:27 2016/08/22	080
ers			×	E2 01 00 01 00 90	POL	۲		19:56 2016/07/04	22:27 2016/08/22	08 0
*	E2 00 BB BB BB 02	22:27 2016/08/22	â	Manager E2 01 00 01 00 E4	CRA	•		17:11 2016/07/18	22:27 2016/08/22	080
iration	E2 01 00 01 00 7F	22:27 2016/08/22	ô	Humidity E2 03 00 01 00 93	POL	۲		18:28 2016/08/11	22:27 2016/08/22	08 0
	E2 01 00 01 00 94	22:27 2016/08/22	ô	The Sensor E2 03 00 10 20 30	POL	8	\bigcirc	17:40 2016/08/17	23:20 2016/08/18	08 0
	E2 01 00 01 00 EE	22:27 2016/08/22	â							
	E2 01 00 01 00 F0	22:27 2016/08/22	â							

7.4. Turning the sensor's alarms off

Turning the sensor's alarm off cause the sensor, which is assigned to any rule, to not display information about the event described in this rule and to not initiate the alarm. To turn the alarm off click the slider located next to sensor's name in column *Alarms*. If the alarms of selected sensor have been turned off then the slider is yellow. If the sensor has not been assigned to any rule then this feature will be disabled (the slider will be white).



~	EFENTO CLOUD							Ĵ JS Ltd ∽	John Smith
Cashboard	te Structure			Sensors Location map					
I	~ Poland (POL)		00	🔗 Edit 😢 Remove	🕑 Disable 🛛 Enable	i i		۵ 📀 🕲	
Reports	Warsaw (WAW)		000	Name / Serial number	▼▲ Loc. ▼▲	Status 💌	Notifications 🕶 Added 🕶	Active 🕶	×
\square	~ Cracow (CRA)		000						
Alarms	Downtown (D	WN)	⊕ Ø8	Office E2 01 00 01 00 01	DWN	٢	19:56 2016/07/04	23:12 2016/08/18	080
シン Rules	law sensors			Warehouse E2 01 00 01 00 38	WAW	•	otifications disabled 16:32 2016/07/13	22:27 2016/08/22	080
Users	Serial num.		×	✓ Test E2 01 00 01 00 90	POL	۲	19:56 2016/07/04	22:27 2016/08/22	08 0
	E2 00 BB BB BB 02	22:27 2016/08/22	â	Manager E2 01 00 01 00 E4	CRA	•	17:11 2016/07/18	22:27 2016/08/22	ତ୍ରପ୍ତ
Configuration	E2 01 00 01 00 7F	22:27 2016/08/22	â	Humidity E2 03 00 01 00 93	POL	۲	18:28 2016/08/11	22:27 2016/08/22	02 0
	E2 01 00 01 00 94	22:27 2016/08/22	â	The Sensor E2 03 00 10 20 30	POL	8	17:40 2016/08/17	23:20 2016/08/18	000
		22.27							

7.5. Removing the sensor

Removing the sensor causes it complete removal from Efento Cloud platform. All measurements send by this sensor will also be deleted. To remove a sensor click "X" button located on the right side of the sensor's name on the list and confirm the removal. In order to remove several sensors at once mark their checkboxes on the list and then click *Remove* button above the list.

It is impossible to restore removed sensor's measurements, but you can again add the sensor to the platform the same way you add a new sensor (see chapter 7.1. Adding sensors).

	ENTO DUD									Ĵ ∫JS Ltd ∽	John Smith
Dashboard	Structure			Sensors L	ocation map						
	land (POL)		00	🖉 Edit 🗴	Remove 🕑 Di	isable 📀 Enable				0 🛇 😆	
	Warsaw (WAW)		000	Remove s	elected sensors?	Loc. 💌	Status 💌	Notifications 🔻	Added 💌	Active 💌	×
Alarms	Cracow (CRA) Downtown (D\	WN)	000 000	Yes Office E2 01 00 01	No	DWN	۵		19:56 2016/07/04	23:12 2016/08/18	ଡଓଡ
Rules	New sensors			Warehou E2 01 00 01		WAW	۲		16:32 2016/07/13	22:27 2016/08/22	08 0
Users Seri	ial num. 💌	* *	×	E2 01 00 01	00 90	POL	0		19:56 2016/07/04	22:27 2016/08/22	08 0
	BB BB BB 02	22:27 2016/08/22	â	Manager E2 01 00 01	00 E4	CRA	٢		17:11 2016/07/18	22:27 2016/08/22	08 0
onfiguration	00 01 00 7F	22:27 2016/08/22	â	Humidity E2 03 00 01	00 93	POL	⊘		18:28 2016/08/11	22:27 2016/08/22	080
E2.01	00 01 00 94	22:27 2016/08/22	Ô	The Sense E2 03 00 10		POL	8	OD	17:40 2016/08/17	23:20 2016/08/18	080
E2 01	00 01 00 EE	22:27 2016/08/22	6								
E2 01	00 01 00 F0	22:27 2016/08/22	â								



7.6. Creating and managing locations

Efento Cloud allows you to easily organize and manage locations and sensors assigned to them. Thanks to the platform you can create a projection of your Organisation's structure in a form of a tree and assign sensor to its branches. The way you group the sensors is unlimited, you can use geographic distribution (e.g. Country -> Districts -> Cities -> Objects), function distribution (e.g. Type of object -> City -> Exact location) or any other depending on your needs. Additionally, the users assigned to your Organisation, can be granted specific permissions to different locations. Locations greatly simplify system administration and give full control over user access.

The configuration of locations is done in *Configuration* menu in section *Structure,* which can be accessed only by users with a role of Admin or Manager. You will find there a tree of already created locations whose root is impossible to remove main location. By default its name is the abbreviation of your Organisation's name and its abbreviation is TOP, however it is possible to change both of them.

To add a new location click on plus icon located next to an existing location's name and then enter new location's name and abbreviation. In order to change location's position in the tree, hover your cursor over the left side of the location's name, grab it with the left mouse button and move the location to the selected place in hierarchy. If you want to relocate a location and make it subordinate to other one, then the super ordinate location must have at least one subordinate location. In order to delete a location click delete icon on the right side of its name. Deleting a location results in deleting its subordinate locations too. All sensors from deleted location will be moved to section *New sensors*. The sensor's measurements will not be deleted but all the rules and automatic reports assigned to deleted location will be deleted.

Structure			Sensors	Location map						
 Poland (POL) 		ØØ	🖉 Edit	Remove	😃 Disable 🛛 Enab	le			6 🛇 😆	
Warsaw (WAW)		000	Nam	ne / Serial number	VA Loc. VA	Status 🕶	Notifications •	Added 🏊	Active 💌	×
 Cracow (CRA) 		000	Offic	e	DWN	A		19:56	23:12	000
Downtown (D	WN)	000		00 01 00 01	DWN	٢		2016/07/04	2016/08/18	ଡଓଡ
🇳 New sensors			E2 01	ager 00 01 00 E4	CRA	•		17:11 2016/07/18	22:33 2016/08/22	080
Serial num.	* *	×								
E2 00 BB BB BB 02	22:27 2016/08/22	â								
E2 01 00 01 00 7F	22:27 2016/08/22	â								
E2 01 00 01 00 94	22:27 2016/08/22	â								
E2 01 00 01 00 EE	22:27 2016/08/22	â								

	EFENTO CLOUD
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~	EFENTO CLOUD										Ĵ ∫S Ltd ∽	John Smit
A Dashboard	t Structure			Sensors	Location ma	p						
N N	~ Poland (POL)		0	🔗 Edit	😢 Remove	🕑 Disab	le 👽 Enabl	e			0 🛛 🛛	
Reports	~ Cracow (CRA)		000	Name	e / Serial number	~.	Loc. 🕶	Status 🕶	Notifications 🔻	Added 🖛	Active 🖛	×
Alarms	Downtown (I		000	Office E2 01 0	0 01 00 01		DWN	٢		19:56 2016/07/04	23:12 2016/08/18	Ø80
マン Rules	New sensors			E2 01 0	ger 00 01 00 E4		CRA	•		17:11 2016/07/18	22:33 2016/08/22	080
Users	Serial num.		×									
4	E2 00 BB BB BB 02	22:27 2016/08/22	â									
onfiguration	E2 01 00 01 00 7F	22:27 2016/08/22	6									
	E2 01 00 01 00 94	22:27 2016/08/22	â									
	E2 01 00 01 00 EE	22:27 2016/08/22	â									
	E2 01 00 01 00 F0	22:27 2016/08/22	â									

7.7. Location map

To each location you can add a map or a building plan. In *Configuration* menu go to *Location map* tab. In section *Structure* choose location to which you wish to add a map. If you have not added a map yet, then you will see a blank field with *Add Map/Image* button in the middle. Choose a file you wish to upload and click *Open*. The platform allows you to upload maps/plans in PNG or JPEG format, and the maximum size of the file is 4 Megabytes. Uploading a large image may take up to several minutes. If you wish to delete a previously added map, click on *Remove* button in the upper left corner of the map. To place a sensor on the map, grab it with the cursor from the box below the map, and drop it in a selected place on the map. To remove the sensor from the map, grab it with the cursor and drop it in *Drop here to remove* field. After adding and configuring the location map it will be visible in *Dashboard* menu for all the users with access to that location.

Efento Cloud Users Manual



	☐ JS Ltd ∽ John Smith ·
Dashboard E Structure	List Location map
v Poland (POL)	Poland (POL) 🕲 🛇 🔕 🔒 🌗
Reports Warsaw (WAW)	+ 419 5500
Alarms	
Downtown (DWN) Rules Users	€



8. Reports

Measurements from selected period can be exported as a PDF or CSV report anytime you wish. Additionally, Efento Cloud allows you to configure automatic reports, which will be send with selected frequency (e.g. daily, once a week or once a month) to any e-mail address you type in.

The reports include measurements made by sensors. Additionally they can include information about events such as violation of alarm rules, connection lost or low battery level. The measurements can be saved in reports with density of 3 / 15 / 30/ 60 minutes.

Reports can be generated on user's demand or periodically (automatic reports) with selected frequency (daily, once a week, once a month) and send to any e-mail address. Reports on demand can be generated by each user (Analyst, Manager and Administrator), whereas automatic reports can be configured by users with permissions of Manager or Administrator.

8.1. Generating a report on demand

Generating a report on demand allows you to export measurements from one or more sensors from any period of time in a PDF or CSV file. To generate a report go to menu Reports and then to Generate a report. Select a location containing sensors whose measurements you wish to export, and then mark the sensors by clicking their names. You can select any number of sensors. If you have a problem finding a specific sensor in the location you have chosen, then type in its name or serial number in field above the sensor panel. After selecting the sensors, in section Report content set a time period from which you wish to export measurements (choose from and to dates), set a density of measurements (3 / 15 / 30 / 60 minutes) and choose what should be included in the report (*Measurements* - all measurements made by the sensor and sent to the platform with previously selected density; Alarms information about alarms initiated in selected period of time; Technical details information about low battery level / connection lost / disabling or enabling the sensor). Click Generate PDF or Generate CSV to generate a report and send it to the e-mail address you have entered while creating an account in Efento Cloud. The report will be delivered within a few minutes.



~	EFENTO CLOUD				♫ JS Ltd マ John Smith マ
Cashboard	Generate a report Scheduled re	ports			
N	a 1. Select a location	2. Sensors to be in	ncluded		📃 3. Report content
Reports	~ Poland (POL)	Name / Serial num.	▼▲	At least one sensor required	From
Alarms	~ Cracow (CRA) Downtown (DWN)	Office E2 01 00 01 00 01	Warehouse E2 01 00 01 00 38	Test E2 01 00 01 00 90	To Required
マン マン Rules	Warsaw (WAW)	Manager E2.01.00.01.00.E4	Humidity E2 03 00 01 00 93	The Sensor E2 03 00 10 20 30	Entry Every 3 minutes Measurements
	L				Alarms Technical details
Users					Generate PDF Generate CSV
Configuration					

8.2. Configuration of automatic reports

Automatic reports allows you to automate sending reports to selected e-mail addresses. The reports will be generated and send periodically, depending on configuration. To configure automatic reports you need to have Administrator or Manager access permission. In Report menu go to tab Scheduled reports and then click on Add new scheduled report. Type in report name and then, same as in report on demand, choose sensors which should be included in the report, choose report content and its format and the density of measurements. Next choose report generation frequency - in section Schedule mark one of three options: daily, every Monday or 1st day of each month. The last step of automatic report configuration is adding the recipients. In section Recipients type in e-mail addresses to which the automatic report should be send. You can add any number of addresses and they do not need to be registered in Efento Cloud platform. If you have filled all required fields, click Save which will result in creating an automatic report. From that moment, automatic report is active and it will be send with previously configured frequency. Automatic reports are generated and sent to recipients a few minutes after midnight. All configured automatic reports including information about report creator, sending frequency, report content and report recipients are visible in Scheduled reports tab. To delete an automatic report click delete icon on the right side of the report. You can also edit already existing report by clicking on pencil icon. If you wish to create a new automatic report, similar to an existing one, click Clone button which is located between delete and pencil icon. Automatic reports can be disabled- the report configuration will not be deleted, only sending the report will be suspended. In order to disable an automatic report switch the slider on the left side of the report to off position.

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✓ EF cL	ENTO OUD	Name Requi	red				×
Dashboard	Generate a report	1. Select a location	2 Sensors to be included				
	Defined schedul	v Poland (POL)	Name / Serial num.			At least one sensor required	Add new scheduled report
Alarms	Name	 Cracow (CRA) Downtown (DWN) 	Office E2.01.00.01.00.01	Warehouse E2.01.00.01.00.38		Test E2 01 00 01 00 90	
Alarms	Test	Warsaw (WAW)	Manager E2 01 00 01 00 E4	Humidity E2 03 00 01 00 93		The Sensor E2 03 00 10 20 30	000
Rules	Test CSV	3. Content					@@8
Users	Test PDF	Measurements	O PDF		Entry		@@ ®
Configuration	Weekly PDF	 Alarms Technical details 	 CSV Required 		Every 3 minutes	; *	Ø08
Conigoradori	Weekly CSV	🖽 4. Schedule					000
		Daily Every monday Is of each month Required					
		1. Recipients					
		At least one recipient required					
			kdd new recipient E-mail		Add		
						Cancel Save	



9. Alarms

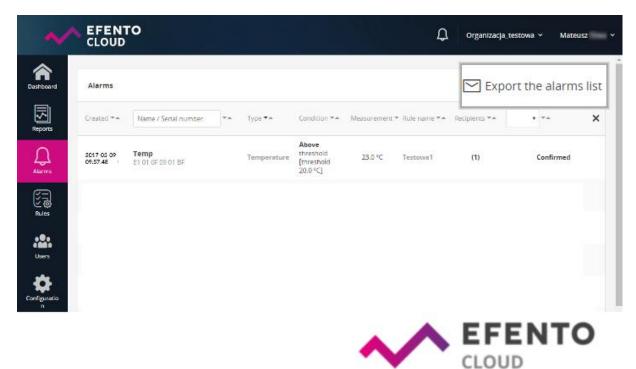
9.1. Alarm preview

Notifications about all (including confirmed) alarms, which occurred since your last login will be visible on the bell icon in the right upper corner of platform site. You will see there a number of alarms initiated during your absence in the platform. By going to the *Alarm* menu you can find a list of all current and past alarms. Column status indicates whether the alarm is *Active* (the alarm rule is still violated), *Confirmed* (other user has reacted to the alarm; the alarm rule is not violated anymore) or it is waiting for *Confirm* (the alarm rule is not violated but none of the users has confirmed noticing the alarm). The alarms can be confirmed only when its cause has been fixed. The alarms can be sorted depending on date of their occurrence, alarm type, alarm cause, current sensor measurement, alarm rule name or recipients assigned to the alarm. You can also find a selected sensor's alarms by entering its name or serial number in the field *Name / Serial number* above the list. In *Dashboard* menu in column *Alarms* you can see the number of unconfirmed alarms of a selected sensor (active and those waiting to be confirmed).



9.2. Export list of alarms

Export the alarms list, when you click *Export the alarms list* button, a list of alarms in the PDF file will be generated and sent to your e-mail



Alarms listing for Organizacja_testowa

*	Created	Sensor	Value	Туре	Measure ment	Rule name	Mobile recipients	E-mail recipients	Status
1	2017-05-09 09:57:48	Temp	Temperature	Upper	23.0°C	Testowa1	-	@efen	Confirmed



10. Editing user and Organisation data

10.1. Changing username, language and password / deleting the account

Hover your cursor over your name and surname in the right upper corner of the platform, and you will see user's account options. You will be able to sign out or to go to the user profile. In *Profile* tab you can edit your data such as: name, surname, e-mail address and Efento Cloud account password. You can also change language and time zone. After making changes save them with *Save* button. If you wish to delete your account including all your data in the platform, click *Remove account* button.

~^	EFENTO CLOUD			¢	JS Ltd 🗸	John Smith ~
A Dashboard	Edit account					rofile ign out
Reports	Your account		Password			
Ĵ	John		Password			
Alarms	Smith		Confirm password			
Rules	efento.cloud@gmail.com Changes will require confirmation		Save 🕥			
	Language					
Users	English	*	Remove account			
Configuration	Asia/Tokyo	٣				

10.2. Editing Organisation information

In order to edit your Organisation information, hover the cursor over its name in the upper right corner and then choose *Edit Organisation* tab. You will be able to change Organisation's name and its abbreviation. On the right side of this tab you will also find Organisation Key, but it is impossible to modify it. After making changes, save them with *Save* button.

Efento Cloud Users Manual



~	EFENTO CLOUD			¢	JS Ltd 🗸	John Smith 🗸
Dashboard	Edit organisation		Leave o	TST Domster JS Ltd		*
Reports	Organisation	details	Organisation token	Edit organisation	n	
\square	John Smith Limited		4789a310-6d94-4384-b8ce-a0bec7d7baaf	♀ Organisation to	ken	
Alarms	JS Ltd		Save ③	U Leave organisat	tion	
C () Rules				🗟 System logs		
Users						
\$						
Configuration						
domster.rubylogic.eu/#	¢/company					-



11. Charging the text message balance

Efento Cloud allows you to configure text message notifications about rules violations. If you have configured text message notifications, then in order to receive them it is necessary to top text messages balance up. You can top-up the text messages balance by hovering the cursor over your Organisation's name in the right upper corner of the screen and then going to *SMS Limit*. In the popup window you will see the current text messages balance and, if necessary, top it up by keying in the top-up code. If the code was valid, then the balance should increase by a specified amount (100 / 500 / 1000 SMS).

\sim	EFENTO CLOUD		S Ltd × John Smith
Cashboard	Edit organisation	••••	Leave organisation
Reports	John Smith Limited	n detr. SMS notifications Current balance and top ups	anisation token
Alarms	JS Ltd	Available 5MS count	Save 💿
マント Rules		Top up code	
Users		Тор ир	
Configuration			



12. System logs

12.1. System logs preview

System logs, which are the list of all changes made in Efento Cloud platform, can be browsed by users with permissions of an Administrator. To browse system logs hover your mouse over your Organisation's name in the upper right corner of the screen and then click *System Logs*. You will find there an information about all changes made in sensors configuration, locations, reports, rules, users and Organisation. The list can be filtered depending on the date of the log or the user that made the change. In order to remove all filters and display all logs click *X* button on the right side of the filters.

~^	EFENTO CLOUD					Ĵ ≥ rtq ~	John Smith 🗸
Dashboard	System logs					TST Domster JS Ltd	
Reports	Timestamp	▼▲	Author	▼.	Changes	Edit organisation	×
$\bigcap_{i=1}^{n}$	17:28 2016/08/18		John Smith		Removed an Alarm Rule Testing the Test	Ŷ Organisation token ➡ SMS limit	
Alarms	17:21 2016/08/18		John Smith		Created an Alarm Rule Testing the Test with attributes: Name - Testing the T Upper, Threshold - 24.0, Mobile recipients - [505152517], E-mail recipients - [e lolo_6@poczta.onet.pl]		
Rules	17:20 2016/08/18		John Smith		Removed an Alarm Rule Testing the Test	🖶 System logs	
Users	17:10 2016/08/18		John Smith		Updated an Alarm Rule Testing the Test. Updated attributes: Mobile recipier	nts from (None) to [505152517]	
Configuration	17:08 2016/08/18		John Smith		Created an Alarm Rule Testing the Test with attributes: Name - Testing the T Upper, Threshold - 20.0, E-mail recipients - [efento.cloud@gmail.com]	est, Value - Temperature, Type -	
Comparation	17:05 2016/08/18		John Smith		Updated an Efento E20300102030. Updated attributes: Name from Sensors to	o The Sensor	
	20:27 2016/08/17		John Smith		Removed an Efento E20100010195		
	20:25 2016/08/17		John Smith		Updated an Efento E20100010195. Updated attributes: Name from New name Cracow to Downtown	e to Name of sensor, Location fron	n



12.2. Export list of system logs

Export the logs list, when you click the *Export the logs list* button, a list of all system logs in the PDF file will be generated and sent to your e-mail.

~	EFENTO CLOUD			¢	Organizacja_testowa ~	Mateusz Y
Cashboard	System logs				Export the	e logs list
Reports	Timestamp	▼• Author	▼▲ Changes			×
Alarms	08:45 2017/05/11	Mateusz	Removed a Report Test_codziennie			
Users						
Configuratio n						



System logs for Organizacja_testowa

#	Created	Author	Operation	Params
1	2017-05-11 06:45:15	Mateusz	Report Test_codziennie destroyed	