

Pour mener à bien cette configuration, je me suis appuyé sur la documentation officielle et la communauté d'entraide Schneider Electric (APC)

[Active alarms in IT Expert](#)

[It Expert alarm notifications policies](#)

Dans le menu Alarms, ouvrez l'onglet Threshold policies puis cliquez sur Create policy pour configurer vos propres règles d'alerte.

The screenshot shows the 'Threshold policies' configuration interface in the Schneider Electric IT Expert software. The left sidebar contains a navigation menu with 'Alarms' selected. The main area displays three policy configurations: 'Gateway Comm Status', 'Power', and 'Temperature'. Each policy has a 'Create policy' button and a 'Search...' field. The 'Data Room' location is selected in the sidebar.

La première étape de l'assistant consiste à nommer la policy et à sélectionner la localisation cible, ici, la Data Room est sélectionnée afin que la policy s'applique à l'ensemble des équipements de la salle.

The screenshot shows the 'Create policy' wizard in the Schneider Electric IT Expert software. The first step is 'Location', where 'Data Room' is selected. The wizard shows a progress bar with steps: 1. Location (Data Room), 2. Sensor type, 3. Target sensors, 4. Configure threshold, 5. Configure hysteresis, and 6. Summary. A search bar and a list of locations are visible, with 'Data Room' selected.

L'étape Sensor type permet de choisir la grandeur physique à surveiller, pour l'alerte de surchauffe, le type Température est sélectionné parmi les capteurs numériques disponibles.

Policy name\*  
Alerte Surchauffe

Location: Data Room

Sensor type: Temperature

Target sensors

Configure threshold

Configure hysteresis

Summary

Device communication alert  
Gateway Comm Status

Sensor types

Numeric sensors

- Apparent Power VA
- Duration min
- Frequency Hz
- Power W
- Voltage V
- Current A
- Energy kWh
- Percent %
- Temperature**

State sensors

- Mode
- Outlet
- State
- Show all...

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L'étape Target sensors liste automatiquement tous les équipements remontant une mesure de température dans la salle, il est alors possible de filtrer par type d'appareil, fabricant ou modèle, ou de cibler des capteurs spécifiques.

Policy name\*  
Alerte Surchauffe

Location: Data Room

Sensor type: Temperature

Target sensors

Configure threshold

Configure hysteresis

Summary

Device types: All device types [Configure]

Device manufacturer: All device manufacturers [Configure]

Device models: All device models [Configure]

Temperature sensor types: All Temperature sensor types [Configure]

Sensor names: All sensor names [Configure]

0 Devices

0 Sensors

0 Locations

Target specific sensors only

Search...

<input type="checkbox"/>	Sensor name	Device name	Device type	IP address	Model	Manufacturer	Location	Temperature sensor types
<input type="checkbox"/>	Battery Temperature	APC-Rack1-UPS	UPS	192.168.99.12	Smart-UPS SRT 6000	APC	Rack 1	Battery Temperature
<input type="checkbox"/>	Battery Temperature	APC-Rack9-UPS	UPS	192.168.99.32	Smart-UPS SRT 5000	APC	Rack 9	Battery Temperature
<input type="checkbox"/>	Battery Temperature	APC-Rack3-UPS	UPS	192.168.99.17	Smart-UPS SRT 5000	APC	Rack 3	Battery Temperature
<input type="checkbox"/>	Battery Temperature	APC-Rack4-UPS	UPS	192.168.99.20	Smart-UPS SRT 5000	APC	Rack 4	Battery Temperature
<input type="checkbox"/>	Battery Temperature	APC-Rack10-UPS	UPS	192.168.99.33	Smart-UPS SRT 5000	APC	Rack 10	Battery Temperature

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L'étape Configure threshold permet de définir les valeurs de déclenchement de l'alarme : ici un seuil critique à 40 °C et un seuil warning à 35 °C.

The screenshot shows the 'Configure threshold' step (step 4) of a policy configuration process. The policy name is 'Alerte Surchauffe'. The progress bar shows steps: Location (Data Room), Sensor type (Temperature), Target sensors, **4 Configure threshold**, Configure hysteresis, and Summary. The main area is titled 'Configure the threshold values that trigger an alarm'. It contains four input fields for temperature thresholds in Celsius: 'Critical higher than' (40), 'Warning higher than' (35), 'Warning lower than', and 'Critical lower than'. To the right is a line graph titled 'Visualize threshold settings' showing temperature data in Celsius over time (03:00 to 10:00). A red horizontal line is at 40°C and a yellow horizontal line is at 35°C. The data line fluctuates around these thresholds. A legend indicates 'Not actual sensor data'. Navigation buttons 'Previous' and 'Next' are at the bottom.

L'étape Configure hysteresis permet d'éviter les faux positifs en paramétrant le nombre de violations consécutives (ici 3) et le nombre d'échantillons à évaluer avant qu'une alarme soit générée ou effacée.

The screenshot shows the 'Configure hysteresis' step (step 5) of the policy configuration process. The policy name is 'Alerte Surchauffe'. The progress bar shows steps: Location (Data Room), Sensor type (Temperature), Target sensors, Configure threshold, **5 Configure hysteresis**, and Summary. The main area is titled 'Hysteresis configuration'. It has two sections: 'Violations' with a description and an input field for 'Number of violations' (3), and 'Samples' with a description and an input field for 'Number of samples' (3). Below is a line graph titled 'Visualize hysteresis settings' showing a red horizontal line at 40°C labeled 'threshold'. A blue line with markers shows temperature data over time, crossing the threshold. A legend indicates 'Not actual sensor data'. Navigation buttons 'Previous' and 'Next' are at the bottom.

L'étape Summary récapitule l'ensemble de la configuration de la policy Alerte Surchauffe : localisation, type de capteur, seuils et hysteresis, ainsi que les 7 équipements et 8 capteurs ciblés.

Policy name\*  
Alerte Surchauffe

Location Data Room | Sensor type Temperature | Target sensors | Configure threshold | Configure hysteresis | **Summary**

Location: Data Room

Sensor type: Temperature

Configure threshold:  
Critical higher than: 40 °C  
Warning higher than: 35 °C

Configure hysteresis:  
Violations: 3  
Samples: 3

7 Devices | 8 Sensors | 7 Locations

Search...

Sensor name	Device name	Device type	IP address	Model	Manufacturer	Location	Temperature sensor types
Battery Temperature	APC-Rack1-UPS	UPS	192.168.99.12	Smart-UPS SRT 6000	APC	Rack 1	Battery Temperature
Battery Temperature	APC-Rack9-UPS	UPS	192.168.99.32	Smart-UPS SRT 5000	APC	Rack 9	Battery Temperature
Battery Temperature	APC-Rack3-UPS	UPS	192.168.99.17	Smart-UPS SRT 5000	APC	Rack 3	Battery Temperature

Previous Save

Pour la policy Alerte Consommation Vertiv, la même démarche est appliquée en sélectionnant cette fois le type de capteur Power afin de surveiller la consommation électrique des PDU Vertiv.

Policy name\*  
Alerte Consommation Vertiv

Location Data Room | **Sensor type Power** | Target sensors | Configure threshold | Configure hysteresis | Summary

Device communication alert: Gateway Comm Status

Sensor types

Numeric sensors:  
Apparent Power VA  
Current A  
Energy kWh  
Frequency Hz  
**Power W**  
Voltage V  
Temperature °C

State sensors:  
Mode  
Outlet  
Show all...

Previous Next

L'étape Target sensors identifie les deux PDU Vertiv du Rack 6 exposant un capteur Total Real Power, ce qui permet de cibler précisément la consommation globale de ces équipements.

The screenshot shows the 'Alerte Consommation Vertiv' configuration interface. The progress bar indicates Step 1: Target sensors. On the left, there are configuration options for Device types, Device manufacturer, Device models, Power sensor types, and Sensor names. The main area shows a search for 'total real power' and a table of results:

<input checked="" type="checkbox"/>	Sensor name	Device name	Device type	IP address	Model	Manufacturer	Location	Power sensor types
<input checked="" type="checkbox"/>	Total Real Power	Vertiv-Rack6-PDU-Droite	RPDU	192.168.99.25	MG03E4B1-36CF13-3P56B2A10-S	Geist	Rack 6	-
<input checked="" type="checkbox"/>	Total Real Power	Vertiv-Rack6-PDU-Gauche	RPDU	192.168.99.24	MGU3EG80-24PK33-2P56B2A10-S	Geist	Rack 6	-

At the bottom right, there is a 'Next' button.

Les seuils de déclenchement sont ensuite configurés en watts : un warning à 50 W et un critical à 100 W.

The screenshot shows the 'Alerte Consommation Vertiv' configuration interface, Step 2: Configure threshold. The progress bar indicates Step 2: Configure threshold. The page is titled 'Configure the threshold values that trigger an alarm'. There are four input fields for threshold settings:

- Critical higher than: 100 W
- Warning higher than: 50 W
- Warning lower than: (empty)
- Critical lower than: (empty)

Each field has a 'W' unit selector and a 'Select the value that will trigger a [critical/warning] alarm' instruction. To the right, a line graph titled 'Visualize threshold settings' shows power consumption in Watts over time from 06:30 to 14:30. The y-axis ranges from 50 to 100 Watts. A red horizontal line is drawn at 100 Watts, and a blue line represents the power consumption, which fluctuates between approximately 60 and 70 Watts. A legend at the bottom of the graph indicates 'Not actual sensor data'.

At the bottom left, there is a 'Previous' button, and at the bottom right, there is a 'Next' button.

L'hysteresis de la policy Alerte Consommation Vertiv est paramétrée avec 3 violations et 3 échantillons, limitant ainsi les faux positifs.

The screenshot shows the configuration wizard for the 'Alerte Consommation Vertiv' policy. It is currently on the 'Configure hysteresis' step (step 3 of 4). The 'Violations' field is set to 3, and the 'Samples' field is also set to 3. Below the fields is a line graph titled 'Visualize hysteresis settings' showing a blue line representing sensor data and a red horizontal line representing the threshold. The graph shows the data line crossing the threshold and then staying above it for a period before crossing back down, illustrating the hysteresis effect.

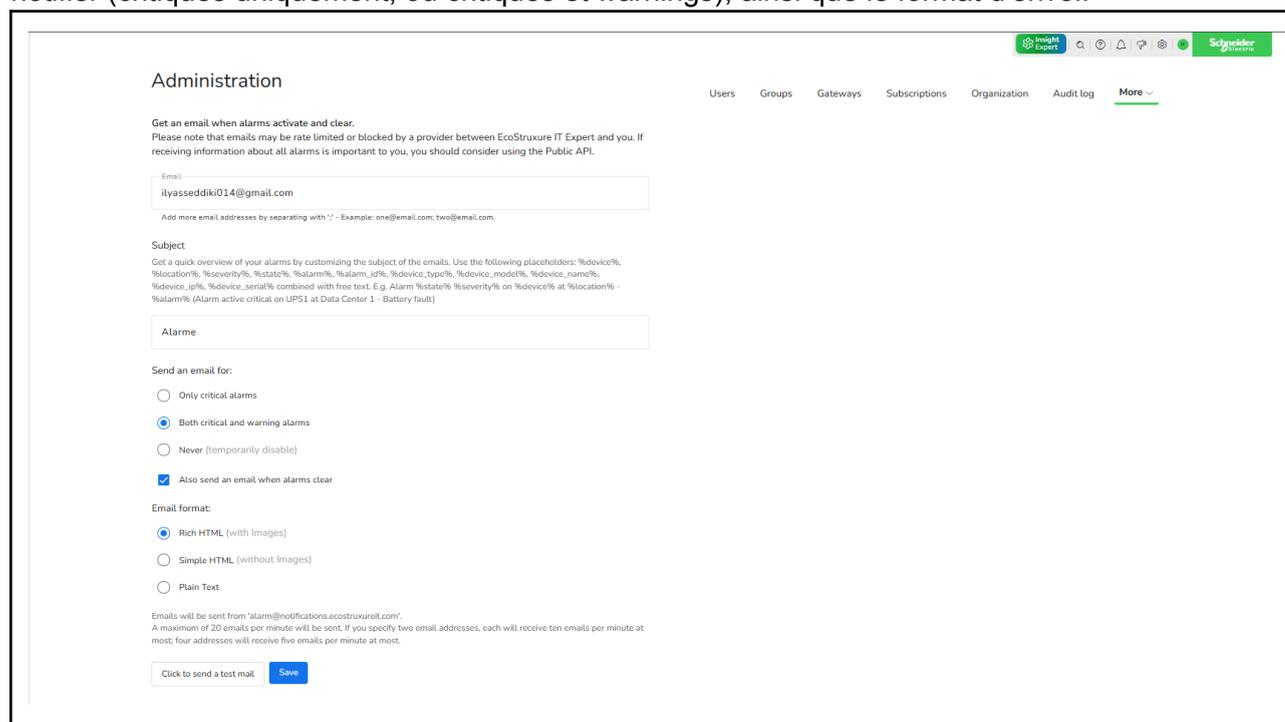
Une fois les trois politiques enregistrées (Alerte Consommation APC, Alerte Consommation Vertiv et Alerte Surchauffe), elles apparaissent dans l'onglet Threshold policies avec leurs seuils et leur statut d'alarme en temps réel.

The screenshot shows the 'Threshold policies' tab in the Schneider Expert interface. The interface is divided into 'Power' and 'Temperature' sections. Under 'Power', there are two policies: 'Alerte Consommation APC' and 'Alerte Consommation Vertiv'. Under 'Temperature', there is one policy: 'Alerte Surchauffe'. Each policy card displays its priority, device type, device model, and power/temperature sensor types. The 'Alerte Consommation Vertiv' policy is highlighted, showing a hysteresis of 3/3. The interface also includes a sidebar for 'Manage locations and devices' and a top navigation bar with tabs for 'Active alarms', 'Alarm history', 'Threshold policies', 'Severity policies', and 'Alarm notifications'.

Pour recevoir les alertes par e-mail, accéder à Parameters → More → Alarm email integration depuis le menu principal de l'interface.



Le formulaire permet de renseigner une ou plusieurs adresses e-mail destinataires, de personnaliser l'objet du message via des variables dynamiques, et de choisir les types d'alarmes à notifier (critiques uniquement, ou critiques et warnings), ainsi que le format d'envoi.

A screenshot of the 'Administration' page for 'Alarm email integration' settings. The page is titled 'Administration' and has a navigation bar with links for 'Users', 'Groups', 'Gateways', 'Subscriptions', 'Organization', 'Audit log', and 'More'. The main content area is titled 'Administration' and contains the following sections:

- Email:** A text input field containing 'ilyasseddiki014@gmail.com'. Below it, a note says 'Add more email addresses by separating with !' - Example: one@email.com; two@email.com.'
- Subject:** A text input field containing 'Alarme'. Above it, a note says 'Get a quick overview of your alarms by customizing the subject of the emails. Use the following placeholders: %device%, %location%, %severity%, %state%, %alarm%, %alarm\_id%, %device\_type%, %device\_model%, %device\_name%, %device\_ip%, %device\_serial% combined with free text. E.g. Alarm %state% %severity% on %device% at %location% - %alarm% (Alarm active critical on UPS1 at Data Center 1 - Battery fault)'
- Send an email for:** Three radio buttons: 'Only critical alarms', 'Both critical and warning alarms' (selected), and 'Never (temporarily disable)'. A checked checkbox 'Also send an email when alarms clear' is also present.
- Email format:** Three radio buttons: 'Rich HTML (with Images)' (selected), 'Simple HTML (without Images)', and 'Plain Text'.

At the bottom, there is a note: 'Emails will be sent from 'alarm@notifications.ecostruxure.com'. A maximum of 20 emails per minute will be sent. If you specify two email addresses, each will receive ten emails per minute at most; four addresses will receive five emails per minute at most.' Below this note are two buttons: 'Click to send a test mail' and 'Save'.