

# External Event with QIOT

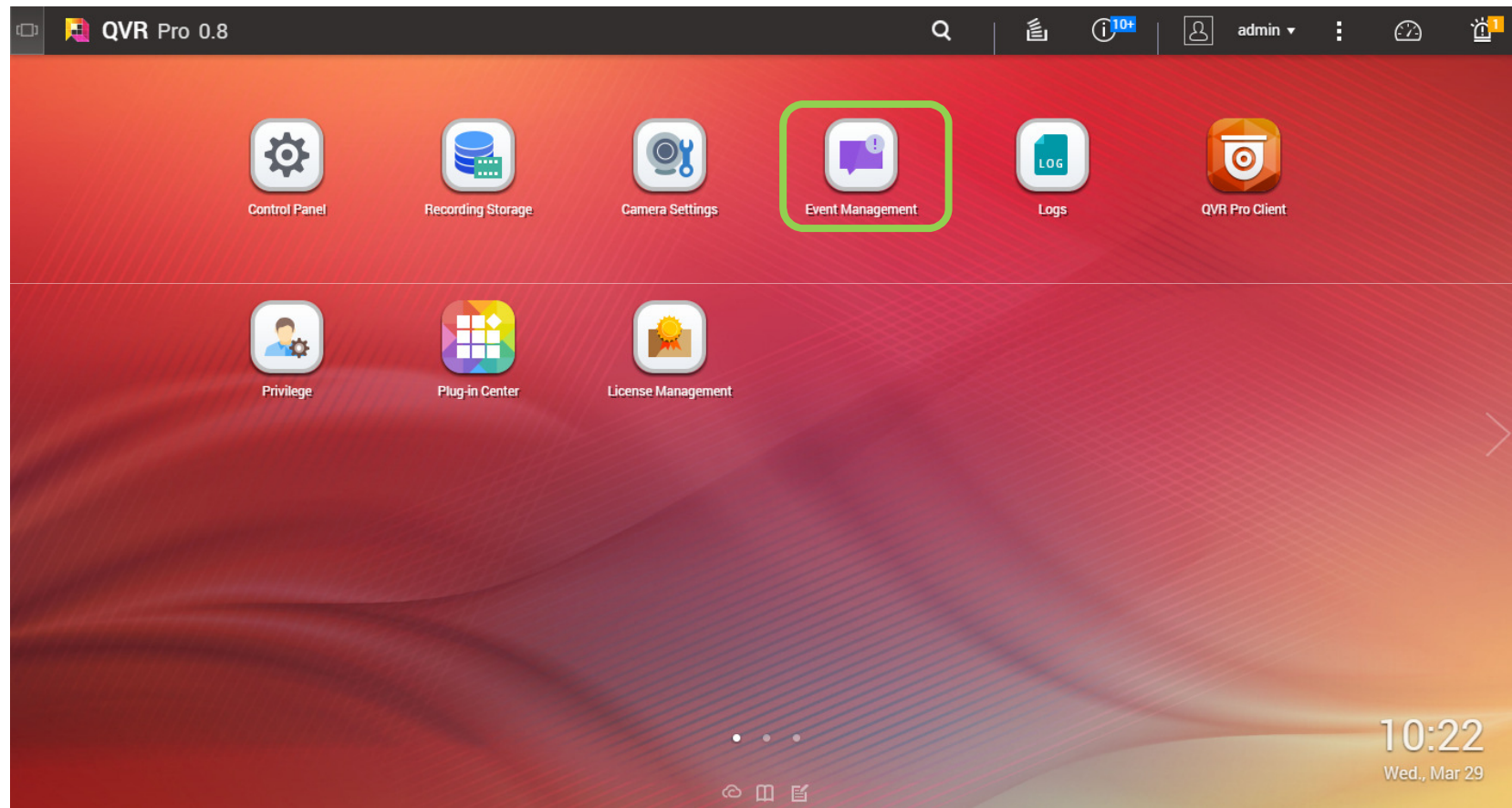
QNAP Systems, Inc.

QVR RD

2017-04-10

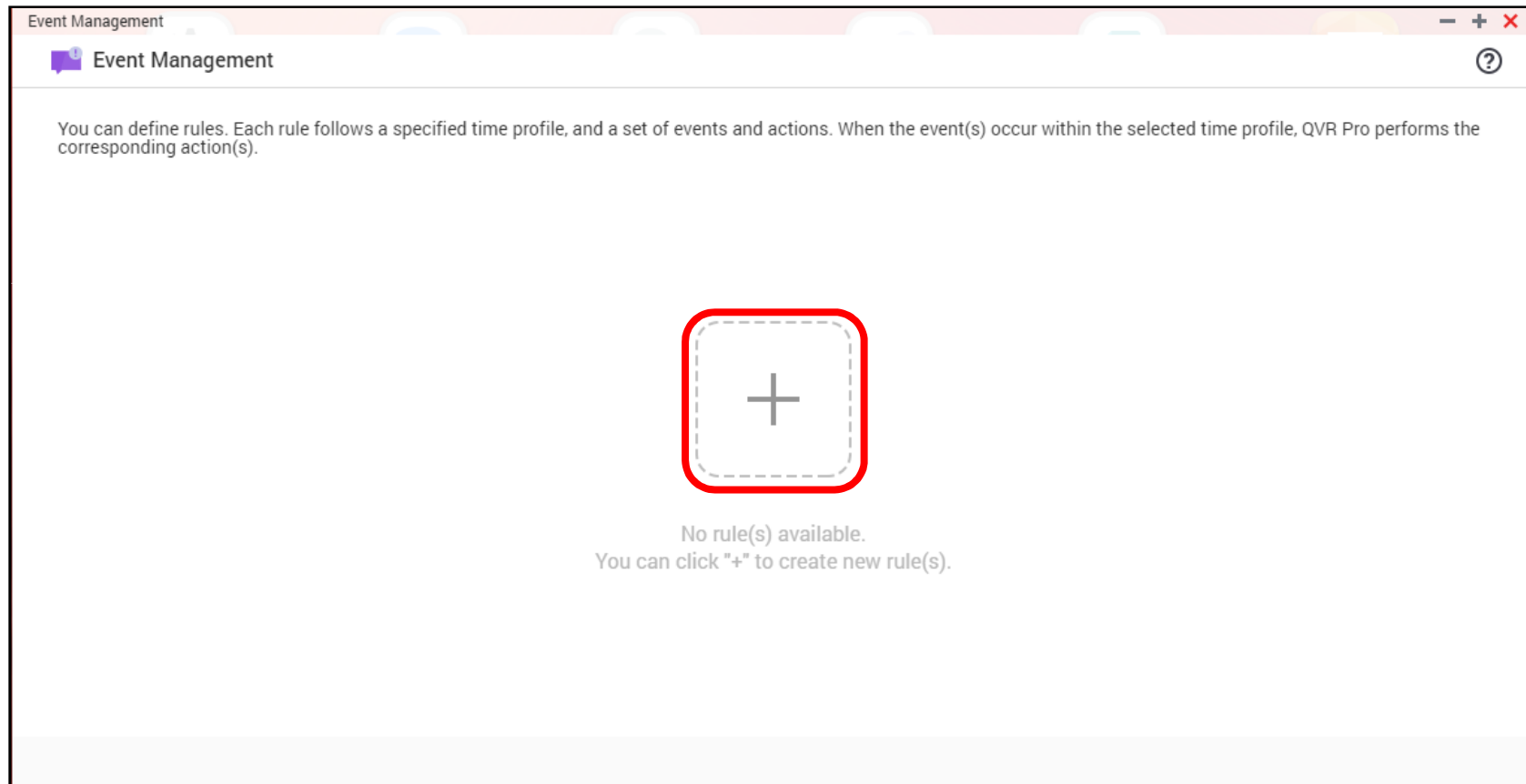
# External Event Example

- Open " Event Management "



# External Event Example

- Create rule



# External Event Example

- Set rule name, description

Add

Name

Type a rule name that briefly describes the purpose of the rule. For example, "Start recording after detecting movement - lobby". You can also use the description field to add more detailed information.

Name:

External\_QIOT\_Rule

Description:

send mail, buzzer, turn on the light



☒ Enable rule

Schedule


Rules will only be enabled during the specified time profile. Select a time profile from the list or create a new one.

Schedule:

All Day

+  

☒ Active ☐ Inactive

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Cancel

Step 1/3

Next

# External Event Example

- Create new event

Add

Add Events and Actions

You can add events and then assign corresponding actions. Different events can trigger the same action.

If

The following event(s) occur

Add

Remove

<input type="checkbox"/>	Name	Type	Source	Operatio...
--------------------------	------	------	--------	-------------

Then

Perform the following action(s)

Add

Remove

<input type="checkbox"/>	Name	Type	Target	Operatio...
--------------------------	------	------	--------	-------------

☐ All events must occur within the specified period [\(10sec\)](#)

Rule Thresholds

Cancel

Step 2/3

Back

Next

# External Event Example

- Create external event
  - Set event name
  - Choice "Event URL" type
  - Set event source name

**Add Event** [X]

Type an event name, select an event type, and then select an event source.

Name:  Events List

Type: URL Event URL ▼

Event Source Name:

A customized event URL is generated to each Event Source Name you enter.  
Copy and use this customized event URL from an external system to trigger QVR Pro.  
So, if you want to differentiate the customized event, be sure not to use the same Event Source Name.

[http://10.64.104.37:8080/qvrpro/apis/logical\\_input.cgi?name=external\\_trigger](http://10.64.104.37:8080/qvrpro/apis/logical_input.cgi?name=external_trigger)

# External Event Example

- Create new action

Add

Add Events and Actions

You can add events and then assign corresponding actions. Different events can trigger the same action.

If

The following event(s) occur

Add

Remove

<input type="checkbox"/>	Name	Type	Source	Operatio...
<input type="checkbox"/>	external_test	URL	external_trigger	

☐ All events must occur within the specified period (10sec)

Rule Thresholds

Cancel

Then

Perform the following action(s)

Add

Remove

<input type="checkbox"/>	Name	Type	Target	Operatio...
--------------------------	------	------	--------	-------------

Step 2/3

Back

Next

# External Event Example

- Create action – send e-mail
  - Set action name
  - Choice "Email" type

**Add Action**

Specify the action name and then select an action type from the drop-down list. Depending on the selected action type, modify the target settings as required.

Name:

Type:

**Target**

☒ Edit the settings for QVR Pro

**SMTP Server**

You can configure the SMTP server settings to send notifications via email.

Select an e-mail account:

SMTP server:

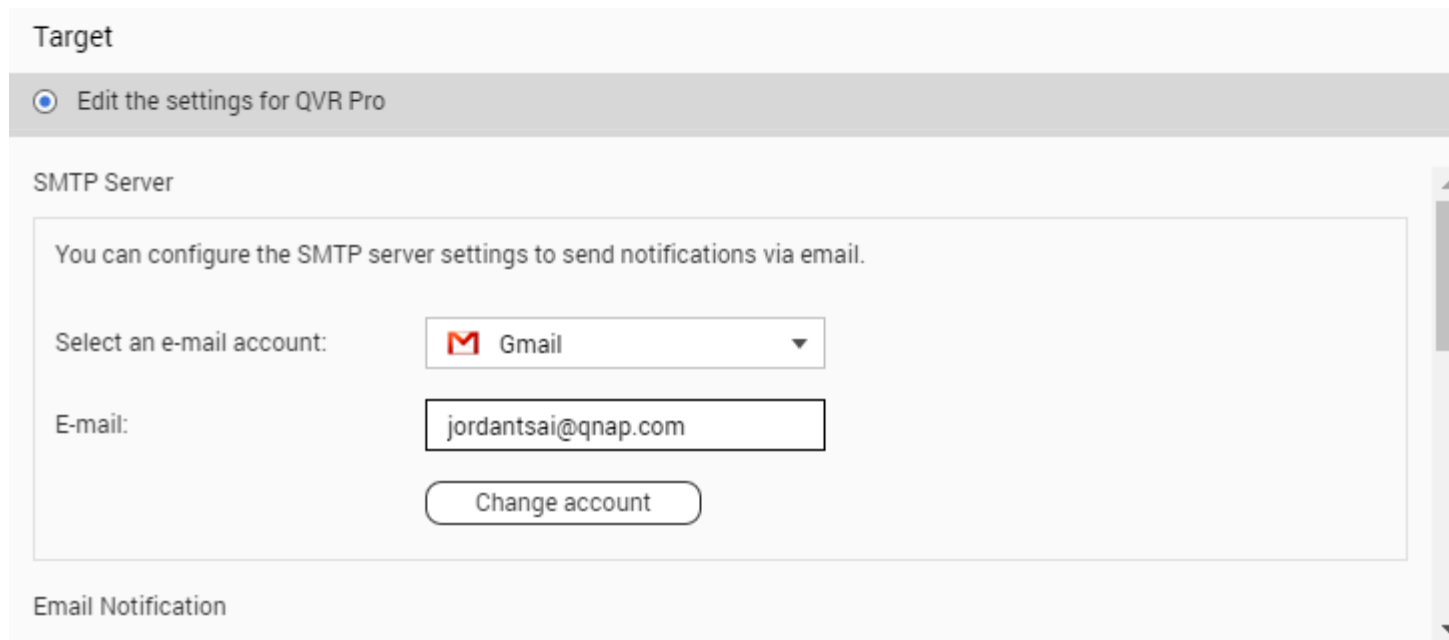
Port number:

E-mail:



# External Event Example

- Create action – send e-mail (cont.)
  - Set SMTP server
    - Select e-mail account (Gmail for example)
    - Set e-mail



The screenshot shows the 'Target' section of the QVR Pro settings. Under 'Edit the settings for QVR Pro', the 'SMTP Server' section is expanded. It contains a message: 'You can configure the SMTP server settings to send notifications via email.' Below this, there is a 'Select an e-mail account:' label next to a dropdown menu showing 'Gmail' with a red envelope icon. Below the dropdown is an 'E-mail:' label next to a text input field containing 'jordantsai@qnap.com'. A 'Change account' button is located below the text field. At the bottom of the section is an 'Email Notification' label.

# External Event Example

- Create action – send e-mail (cont.)
  - Set e-mail which want to notify
  - Set subject
  - Set message

Target

☒ Edit the settings for QVR Pro

Send a notification to the following email addresses:

You can send notifications to up to five addreses. Separate multiple entries with a comma.

Subject:

Message:

# External Event Example

- Create action – notify QIOT
  - Set action name
  - Choice "Action URL" type

**Add Action**

Specify the action name and then select an action type from the drop-down list. Depending on the selected action type, modify the target settings as required.

Name:  Actions List

Type: URL Action URL

You can configure the target settings to send QVR Pro event notifications to third-party applications.

Target

HTTP headers

Key	Value
<input type="text"/>	<input type="text"/>

HTTP body



Body type Raw text

OK Cancel


# External Event Example

- Create action – notify QIOT (cont.)
  - Click "+" to create new action target

You can configure the target settings to send QVR Pro event notifications to third-party applications.

Target  +  

HTTP headers

Key	Value	
<input type="text"/>	<input type="text"/>	<span>+</span> 

HTTP body

Body type Raw text

# External Event Example

- Create action – notify QIOT (cont.)
  - Set action target name
  - Set action target HTTP URL
  - Select HTTP Method
  - Select Authentication

### Add Target

Specify the target where QVR Pro sends event notifications.

Target name:

*Note: The specified name will appear in the Target list.*

HTTP URL:

HTTP Method:

Authentication mode:

# External Event Example

- Create action – notify QIOT (cont.)
  - Set Header
  - Click "+" to add more Headers (if needed)
  - Select Body Type
  - Write the data which will be send to QIOT device

You can configure the target settings to send QVR Pro event notifications to third-party applications.

Target  + ✎ 🗑

HTTP headers

Key	Value	
		+ 🗑

HTTP body

Body type

# External Event Example

- Create action – notify QIOT (example)

- If you have curl command bellow :

```
curl -X PUT -H "requesterid: 5e1c6660-c856-4e20-b295-7d24dc5fc8be" -H  
"Access-Token: r:8ae3ee04ee8276fafd553dd376ca285b" -H "Content-Type:  
application/json" -d '{"value":1}'  
"http://10.64.104.67:21500/resources/qiot/things/admin/Camera1/recorder" -i
```

- Then fill value in corresponding fields...

You can configure the target settings to send QVR Pro event notifications to third-party applications.

Target  + ✎ 🗑

HTTP headers

<input type="text" value="reugesterid"/>	<input type="text" value="5e1c6660-c856-4e20-b295-7d24c"/>	+ 🗑
<input type="text" value="Access-Token"/>	<input type="text" value="r:8ae3ee04ee8276fafd553dd376c"/>	+ 🗑

HTTP body

Body type

Select "Raw" and "Json(application/json)"

# External Event Example

- Create action – notify QIOT (example) (cont.)
  - Then fill value in corresponding fields...(cont.)
    - Select HTTP method "PUT"
    - Select Authentication "NoAuth"

### Edit Target ×

Specify the target where QVR Pro sends event notifications.

Target name:

Note: The specified name will appear in the Target list.

HTTP URL:

HTTP Method:

Authentication mode:



# External Event Example

- Finish rule setting
  - Click "next"

Add

Add Events and Actions

You can add events and then assign corresponding actions. Different events can trigger the same action.

If

The following event(s) occur

AddRemove

<input type="checkbox"/>	Name	Type	Source	Operatio...
<input type="checkbox"/>	external_test	URL	external_trigger	

Then

Perform the following action(s)

AddRemove

<input type="checkbox"/>	Name	Type	Target	Operatio...
<input type="checkbox"/>	Action_send_...		jordantsai@qnap.co...	
<input type="checkbox"/>	Action_qiot_te...	URL	Qiot_Trigger	

☐ All events must occur within the specified period [\(10sec\)](#)

Rule Thresholds

Cancel

Step 2/3BackNext

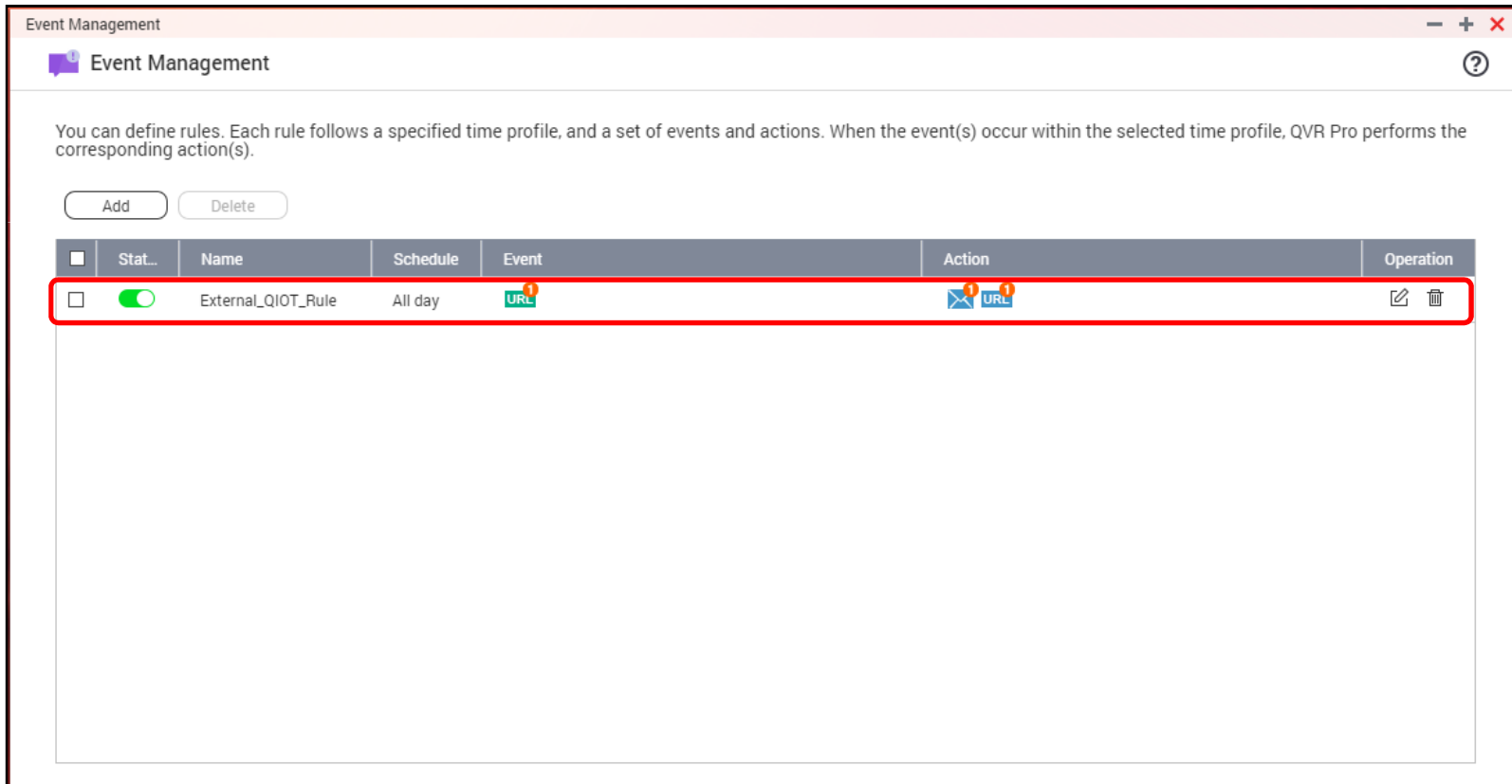
# External Event Example

- Finish rule setting (cont.)
  - Click "finish"



# External Event Example

- Finish rule setting (cont.)
  - Then you can see a rule was created

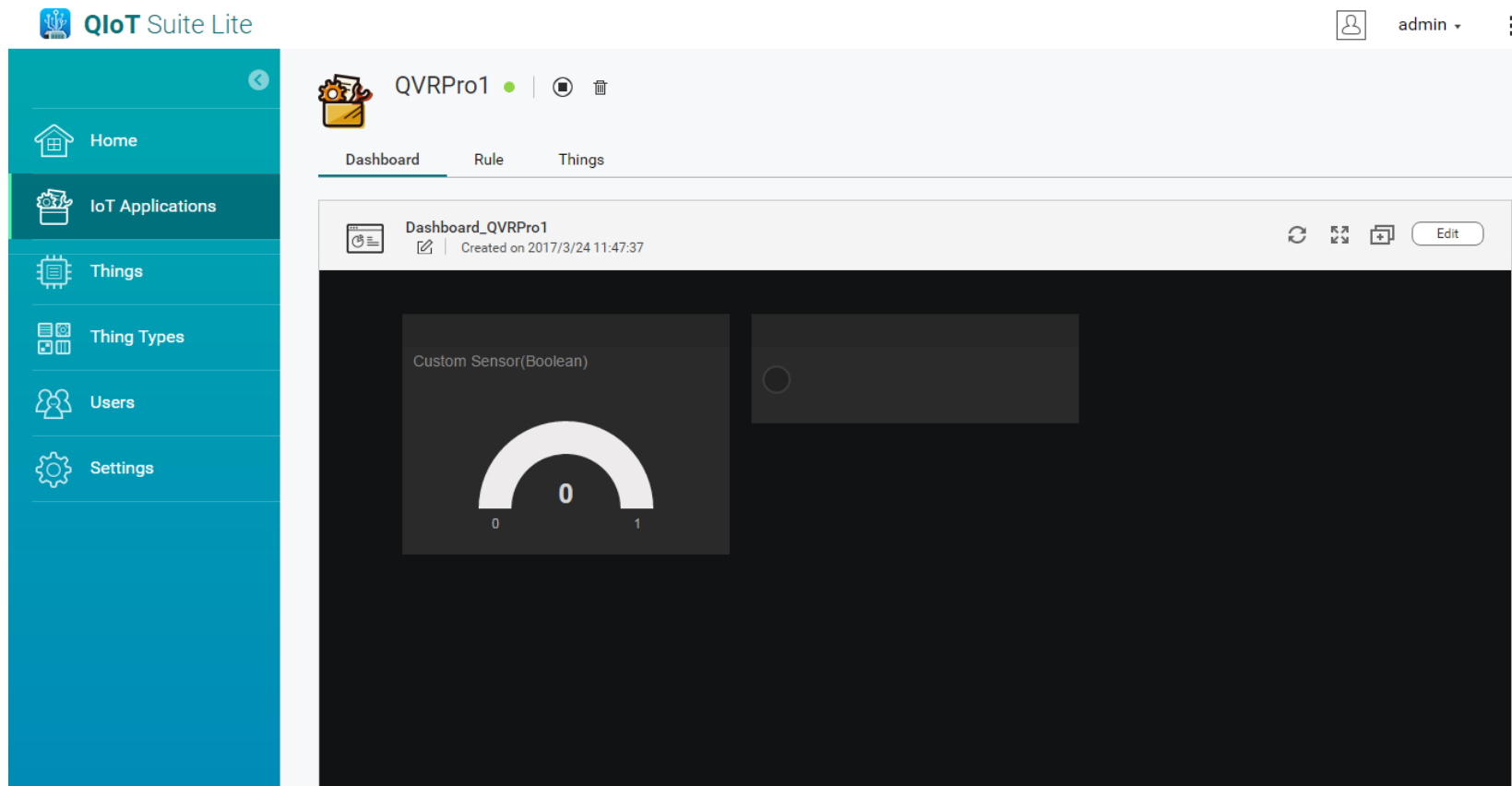


The screenshot displays the 'Event Management' window in QNAP's interface. At the top, there's a title bar with standard window controls. Below it, the 'Event Management' header is followed by a brief instruction: 'You can define rules. Each rule follows a specified time profile, and a set of events and actions. When the event(s) occur within the selected time profile, QVR Pro performs the corresponding action(s).' Below this text are two buttons: 'Add' and 'Delete'. The main area contains a table with the following columns: a checkbox for selection, 'Stat...' (Status), 'Name', 'Schedule', 'Event', 'Action', and 'Operation'. A single rule is listed in the table, highlighted with a red border. The rule is named 'External\_QIOT\_Rule', has a status of 'On' (indicated by a green toggle switch), a schedule of 'All day', and an event of type 'URL' (marked with a red '1'). The action is also 'URL' (marked with a red '1'). The 'Operation' column shows icons for editing and deleting the rule.

<input type="checkbox"/>	Stat...	Name	Schedule	Event	Action	Operation
<input type="checkbox"/>	<input checked="" type="checkbox"/>	External_QIOT_Rule	All day	URL <sup>1</sup>	URL <sup>1</sup>	

# External Event Example

- Before we trigger external event (the light was turned off)



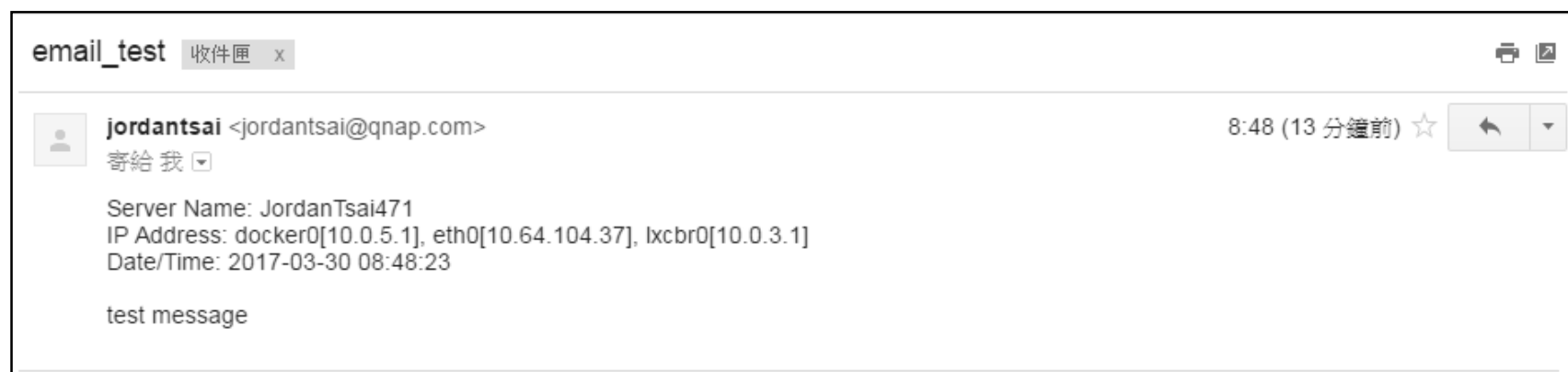
# External Event Example

- Send external event URL by browser

① 10.64.104.37:8080/qvrpro/apis/logical\_input.cgi?name=external\_trigger

```
{  
  "success": true  
}
```

- Then we can received test e-mail from QVR Pro



# External Event Example

- And the light was turned on

