



Automation for TEOS Scenarios

Installation & User Manual

Document revision 1.1

Overview

This document will explain how the automation scenarios works within Manage for TEOS

Requirements

- From Manage for TEOS 2.2
- Devices (attached with licenses) for the actions
- No need to use licenses for automation scenarios

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1. Automation Scenarios general details

1.1. Usage

From TEOS 2.2, using the automation scenarios will give you a lot more flexibilities in the usage of your devices be able to use for example the KNX sensor (if you have) used for the Light where data is retrieved into TEOS to start the meeting and the display.

A lot of workflows can be achieved using it.

You can do condition from a sensor, a device, date and time, meeting schedules and other type of conditions are available. In output from these conditions, the actions going to actuators, devices devices localization, meeting schedules etc.



1.2 Hardware compatible with the automation scenarios

Sony devices

Devices compatible with automation scenarios are:

- Tablets for TEOS
- BRAVIA
- Sensors for TEOS (LoRaWAN)
- Player for TEOS

Building devices

TEOS Version 2.2 offer an integration with building management. The 3 new building interfaces/gateway integrated into TEOS are:



Third party devices

All the third-party devices officially compatible with TEOS (please review the Third-party documentation) are compatible for power ON/OFF and volume if it is integrated into TEOS.

2. Conditions under Automation scenarios

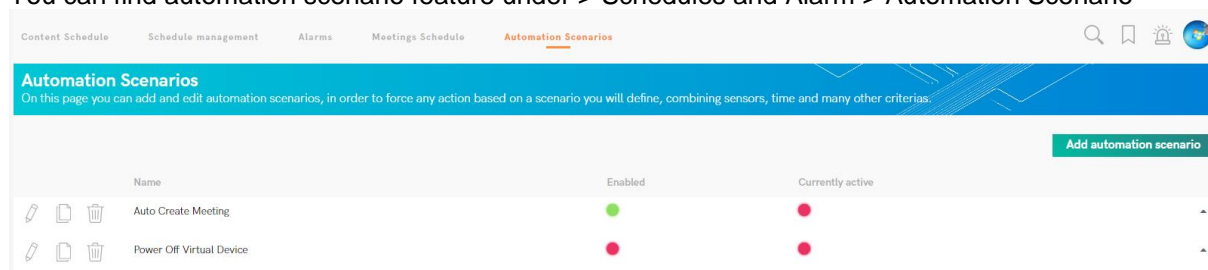
Object	Condition item	Comparison method	Value
device	Power status (select device)	Equals	True/False
	On external input (select device and input)	Equals	True/False
	Volume level (select device)	Equals/greater than/ Greater equals/ less equals/ less than	0-100
Sensor	Value/average value/ Highest/lowest value/ percentile value (select the Sensor)	Equals/greater than/ Greater equals/ less equals/ less than	0-1, value depending on the sensor output
Date/time	Day of week/ day/week/ year	Equals/greater than/ Greater equals/ less equals/ less than	Day, hour (value), day (value), year (value)
Device localization	Is booked currently/ Is booked shortly/ Later today (select Device localization and within XX minutes)	Equals	True/False
Meetings schedules	Is booked currently/ Is booked shortly/ Later today (select Calendar and within XX minutes)	Equals	True/False
Other	Action schedules/ Content schedule/ Automation scenario (select schedule)	Equals	True/False

3. Actions under Automation scenarios

Object	Action item	Value (delay action if needed)
Device	Set Power status (select device)	ON/OFF
	Play presentation (select device)	Select presentation
	Set volume level (select device)	Volume (start), volume (stop)
	Start App (select device)	Signage or Connect
Device localization	Book ad-hoc (select device localization)	subject
	Turn lights on/off (select device localization)	On/off (start), on/off (stop)
	Dim lights (select device localization)	Dim level % (start), Dim level % (stop)
	Start Meeting (select device localization)	Stop Meeting afterwards (yes/no)
	Stop Meeting (select device localization)	
Actuator	Write value (on actuator)	On/off value
Meetings schedule	Book ad-hoc (select calendar)	Subject
	Start Meeting (select calendar)	
	Stop Meeting (select calendar)	Stop Meeting afterwards (yes/no)
Others	email	To (email), subject, content

4. Creating Automation scenarios

You can find automation scenario feature under > Schedules and Alarm > Automation Scenario



Click “Add automation scenario” to create a scenario. In the following screen enter the following details:

General

Add a name

Activate your automation rule

Define the level of priority

(This will be used to determine which schedule has the highest priority in case schedules have conflicting actions)

The screenshot shows the 'General' configuration form for an automation scenario. It has three fields: 'Name' with the value 'TEOS Automation', 'Active' with a checkbox and a question mark icon, and 'Action priority' with the value '10' and a question mark icon.

Conditions

This is the part where you can setup your automation rule, in this example we want to have a device turned off in case the value of a sensor equals a specific value.

Please note that it is possible to add multiple conditions, the rule can become active in case it matches all conditions or one of them.

For example when you want to turn a TV off in case there is no presence in a room or when the lights go out.

You can also configure that a condition should match a specific value for 5 minutes before the automation rule becomes active. For example in case the lights have been turned off for 5 minutes.

The screenshot shows the 'Conditions' and 'Actions' configuration forms for an automation scenario. The 'Conditions' section has a dropdown menu set to 'Any' and a time dropdown set to 'Now'. Below this, there's a condition row with 'Sensor' selected, 'Value' as the operator, 'Equals' as the comparison, and '0' as the value. The sensor is identified as 'LoRa - Presence Sensor/Presence (TEOS Room)'. There's an 'Add condition' button below. The 'Actions' section has a title 'The following actions will be triggered:' and a row with 'Device' selected, 'Set power status' as the action, 'TEOS Mahage' as the device, 'Off' as the on/off status, and '0' seconds as the delay. There's an 'Add action' button below.

Once you have saved the automation rule you will be returned to the automation rule overview. From this overview you can verify which rule is active and which one is not.

Name	Enabled	Currently active
TEOS Automation	●	●

When selecting the arrow on the right side of your rule an overview will be shown, this overview contains the current values for your automation rule. In case the value matches your configuration, the action will be executed and it will be shown as green (currently active).

TEOS Automation

Conditions

Sensor - Value equals 0

Current value: null

- Sensor: Lofla - Presence Sensor/Presence (TEOS Room)

Actions

Device - Set power status

- Device: TEOS Manage

- OnOff: False

- Delay action: 0 seconds

This overview will be refreshed every 30 seconds, a timer can be found on the bottom right corner.

Refreshing states in 8 seconds

4.1. Room/desk booking, check-in and check-out

Within TEOS solution one of the targets is to make space efficient and simple to use. Thanks to the sensors technology the following workflows can be achieved in the automation scenarios

- 1) When room is booked and waiting for a checkin, the sensor detects a presence and the checkin is automatically done. If there is no presence, the checkin is not done and the room become available
- 2) When the room is not booked and presence is detected, book the room for a selectable time in the automation scenario
- 3) When desk is booked and waiting for a checkin, the sensor detects a presence and the checkin is automatically done. If there is no presence, the checkin is not done and the desk become available
- 4) When the desk is not booked and presence is detected, book the desk for a selectable time in the automation scenario"

To make that possible after having your sensor connected to TEOS you need to go to schedules and alarms and to Automation Scenarios:

TEOS

Global Overview

Server Management

Site Management

Administration

Workplace Solutions

Schedules and Alarms

Content Creation

Media and Data

Content Schedule

Schedule management

Alarms

Meetings Schedule

Automation Scenarios

Automation Scenarios

On this page you can add and edit automation scenarios, in order to force any action based on a scenario you will define, combining sensors, time and many other criteria.

Add automation scenario

Name	Enabled	Currently active
Room booking ad-hoc	●	●

Conditions (scenario requires all conditions)

Sensor - Value greater than 0

Current value: 0

- Sensor: Lora TT1 - v2presence/Presence (MR-Floor00-01)

Actions

Meetings Schedule - Book ad-hoc

- Meetings Schedule: MR-Floor00-01

- Subject: Sensor booking

- Meeting duration: 10 minutes

- Delay action: 0 seconds

Meetings Schedule - Start meeting

- Meetings Schedule: MR-Floor00-01

- Stop meeting afterwards: True

- Delay action: 0 seconds

Refreshing states in 25 seconds

Create a new automation scenario where you select as condition the sensor to have a greater value than 0 and if it is the case as actions to book automatically the calendar of your room with a subject such as "autobooking" and the meeting duration which is recommending to be 10 minutes or 5 minutes ranges.

If you want also to do the autocheck-in you can add in the action the start meeting option for the same room calendar with the option to autocheck-out if there is no presence. TEOS will manage the rest of the usage and will check every with a background task the statuses and calendars to make that workflow working.

This is different from for example the fact of starting a device based on the sensor detection, this will be done only once and when for example there is no presence, the state of the device will not change. You need to add another scenario for the power Off if sensor as no presence.

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When **All** of the following conditions are true **Now** :

Sensor Value Greater than 0

Sensor Lora TTI - v2presence I/Presence (MR-Floor00-01)

+ Add condition

Actions

The following actions will be triggered:

Meetings Schedule Book ad-hoc

Meetings
Schedule MR-Floor00-01
Subject Sensor booking
Meeting duration 10 Minutes
Delay action 0 seconds

Meetings Schedule Start meeting

Meetings
Schedule MR-Floor00-01
Stop meeting afterwards Yes
Delay action 0 seconds

4.2. Actions on AV devices

When an action scenario is used to do actions on AV devices such as a BRAVIA for example when you want to power it on/off based on a condition, take into account that when the condition rule is validated the command to the device is send one time.

If you want also to change the status of the device based on the reverse of the condition, you will need to create a dedicated condition for that. The condition change will not change the two status but only change it once based on the condition validation value.

Volume, external input and email

Conditions (scenario requires all conditions)

Device - Volume level less/equals 10

Current value: 0

Device - GFO BRAVIA A10

Actions

Other - Send email

To: gullasame.oliveira@sony.com

Subject: automation test

EmailBody: A test of automation with both HDMI 1 and volume less than 10 is tested as a condition to send this email

Delay action: 0 seconds

Conditions (scenario requires all conditions)

Device - Volume level greater/equals 10

Current value: 0

Device - GFO BRAVIA A10

Actions

Other - Send email

To: gfo@sony.com

Subject: Test

EmailBody:

Delay action: 0 seconds

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5. Examples of Automation scenarios

- 1) When a presence is detected (desk sensor for example), start the meeting (stop meeting can be directly setup as well)
- 2) Send email on a device status (Off for example)
- 3) When MR_TEOS booked power on BRAVIA and play selected presentation
- 4) Book if free to book (10 minutes slots by default)
- 5) When room currently booked, start signage app
- 6) When MR_TEOS is booked, power on BRAVIA
- 7) When day of the week greater than 1 (Monday), power on device.
- 8) When currently no meeting schedule is booked, switch off device.
- 9) When device localization is not currently booked, play presentation.
- 10) When meeting schedule is booked currently, set volume for device to 30 if meeting ends set volume to 0 again.
- 11) When device is powered on, start Signage app for TEOS.
- 12) When volume level of device is greater than 30, start Connect for TEOS app.
- 13) When device localization is booked currently, turn on lights. When meeting ends keep lights on.
- 14) When device localization is booked currently, turn off lights. When meeting ends turn on lights.
- 15) When device localization is booked currently, turn on lights. When meeting ends turn off lights.
- 16) When device localization is booked currently, turn off lights. When meeting ends keep lights off.
- 17) When device is switched off, dim lights 50%. When device is switched on again dim lights 0%.
- 18) When device localization is currently booked, switch on Lamp 4. When meeting is over turn off lamp 4.
- 19) When the device reboots, send an email.
- 20) When device localization is currently booked and device is powered on, send an email.
- 21) When device localization is currently booked, power on device and send an email.
- 22) When temperature is less than 30°C then send an email
- 23) When presence detected, switch on lamp 1
- 24) When rocker switch is clicked to on/1, lamp 4 should switch on

- 25) When meeting room is currently booked, dim lights 50%. When meeting is over dim lights 0%.
- 26) When a presence has been detected, send an email
- 27) When a rocker switch greater equal to 1 book ad-hoc meeting (device localization) (when 0 stop/cancel meeting)
- 28) When a rocker switch greater equal to 1 book ad-hoc meeting (meeting schedule) (when 0 stop/cancel meeting)
- 29) When rocker switch 1 is switched to 1 (on) start meeting, stop after
- 30) When rocker switch 1 is switched to 0 (off) stop meeting

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