

TEOS Technical Flowchart

Manage Version 3.2 – Revision 1.0

SONY



Make spaces perform: Simplifying Workdays

ORCHESTRATE YOUR OFFICE



Manage for TEOS

Take full control of devices, signage, content and building controls. Get statistics/Analytics out from all the data going through TEOS. Automate scenarios with sensors and manage spaces leased to tenants.

STREAMLINE ROOM & DESK BOOKINGS



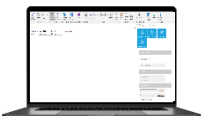
Book for TEOS

Save time and optimize the use of meeting spaces with an interactive room booking solution.



Mobile for TEOS

Manage meetings and hot desk bookings from anywhere with a mobile application that combines booking, room control and mirroring.



Outlook Add-In for TEOS

Invite visitors, manage meetings and use also the **service and catering**

As people move through the workplace Sony corporate solutions help them be more efficient and productive.



IMPROVE VISITING EXPERIENCE AND EFFICIENCY



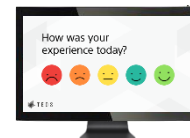
Reception for TEOS

Extend a professional welcome to every visitor as they sign in and notify their host of their arrival.



Wayfinding for TEOS

Navigate the workplace easily and find available rooms.



Survey for TEOS

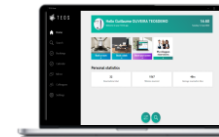
Collect feedback from employees and guests with a fully customizable survey platform.

SIMPLIFY AND OPTIMIZE MEETINGS



Meeting Display for TEOS

Turn idle meeting screens into smart and informative displays.



Meet for TEOS (BETA)

Mirror content or start teams meetings wirelessly with your device to BRAVIA Displays.



Room Control for TEOS

Control connected meeting room devices through a customizable interface.

ENABLE CLEAR COMMUNICATION



Signage for TEOS

Create and distribute colorful, eye-catching and touch-interactive digital signage



Room Status for TEOS

Share details of meeting room bookings on a large display.

Choose your installation type



Device Control	Yes	Yes	Yes
Apps installations & Updates	Yes	Yes	Yes
Issue report	Yes	Yes	Yes
Badge printer (for reception)	Yes (email to print)	Yes (email to print)	Yes
User rights management	Yes	Yes	Yes
Custom protocols	No	Yes (virtual devices only)	Yes (virtual devices & custom commands)
Users access simultaneous accesses	Yes	Yes	Yes (depending on server specifications)
Content rights management	Limited	Selectable (depending if basic or advanced signage mode is used)	Selectable (depending if basic or advanced signage mode is used)
Schedule management	Yes	Yes	Yes
Workplace solutions (room booking, etc.)	Yes	Yes	Yes
Signage	Basic signage mode	Selectable (Basic or advanced)	Selectable (Basic or advanced)
Analytics & Site overview	No	Yes	Yes
Data Export	No	Yes	Yes
Active Directory & SSO	No	No	Yes
Azure AD & MFA	No	Yes	Yes
Building Management	Yes (LoRaWAN only)	Yes (LoRaWAN only)	Yes (KNX, DALI, LoRaWAN)
Maximum Advanced Licenses (TEM-ALXX)	30	No limit	No limit (depend on server specifications)
TEOS Mirroring (using TEOS Connect)	Yes	Yes	Yes



TEOS

Mirroring (using TEOS Connect)

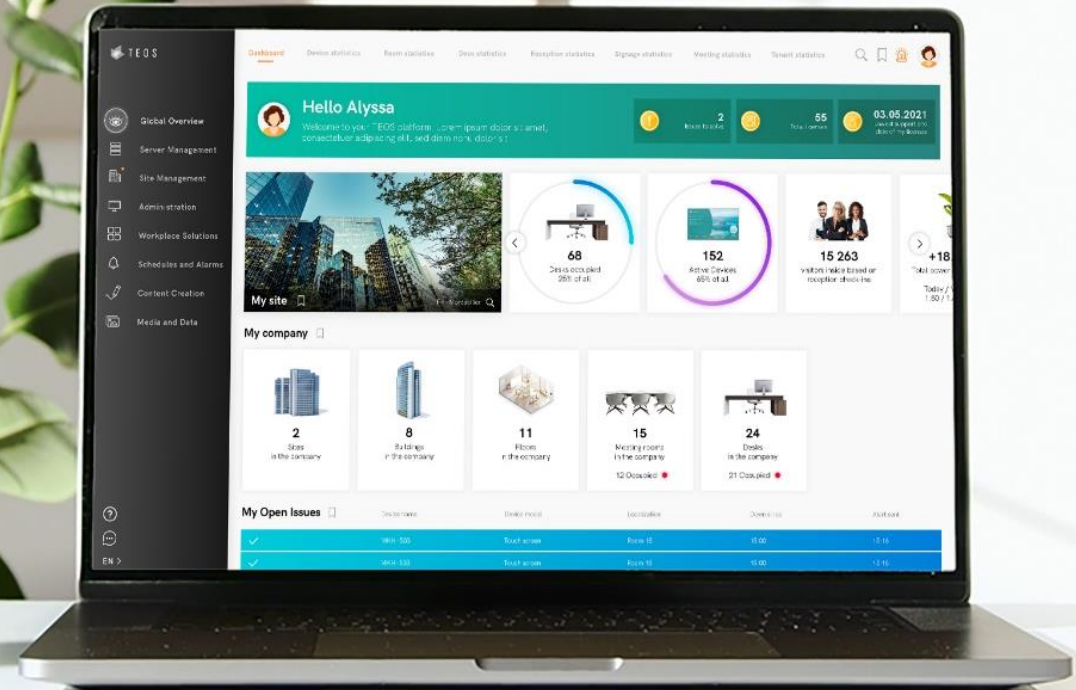
Summary

- Architecture
 - Manage for TEOS on premise
 - Manage for TEOS Cloud
 - TEOS Communications
- BRAVIA for TEOS
- Player for TEOS
- Tablet for TEOS
- Building
- Employee App, Mobile App & Add-in
- Connect for TEOS

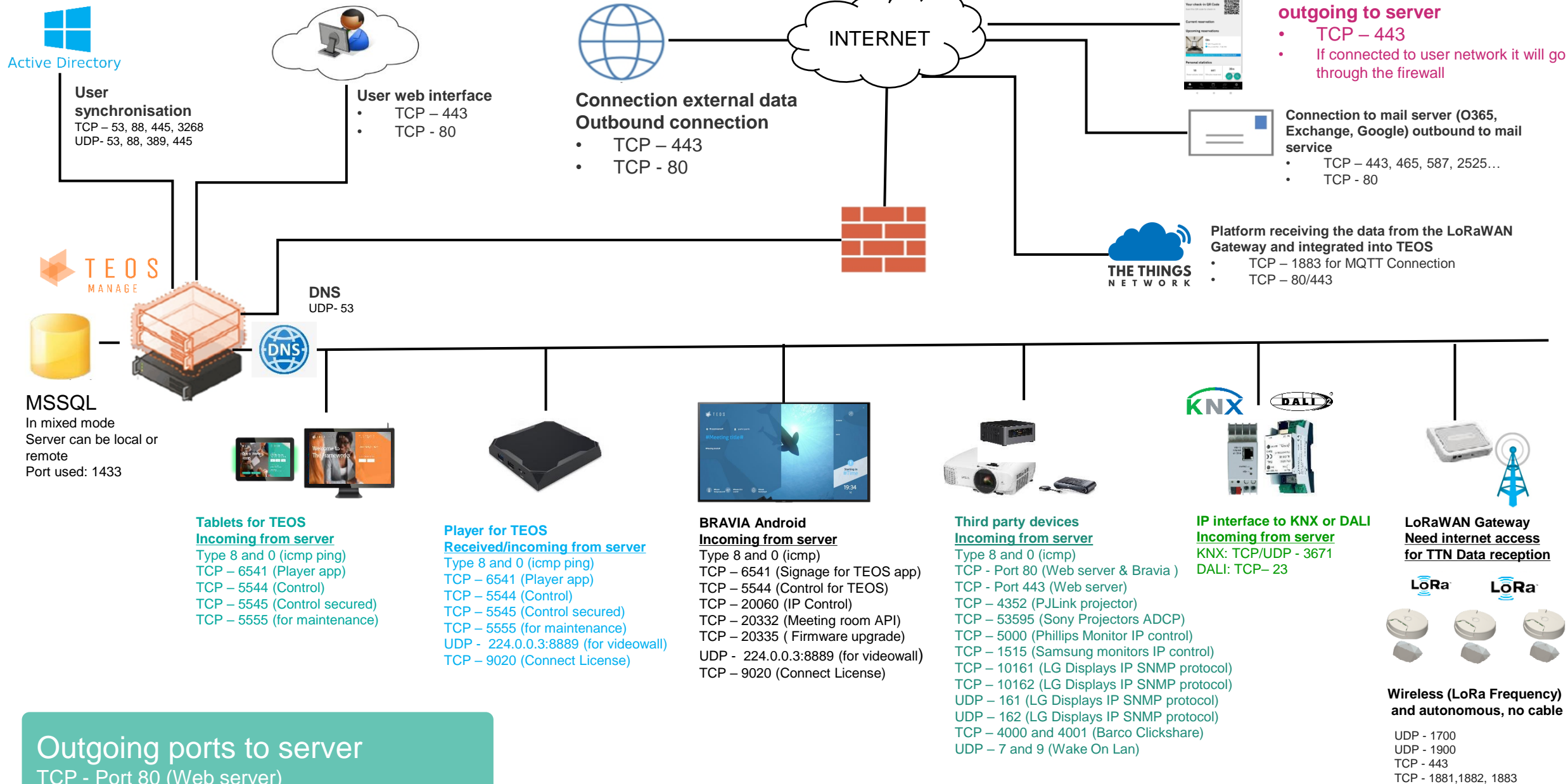


Technical workflow

TEOS Server on-premise



On-premise architecture (push method)



Outgoing ports to server

TCP - Port 80 (Web server)
 TCP - Port 443 (Web server)

Manage for TEOS SERVER Construction

You can find below details extracted from the specification and requirement document for TEOS

Devices / user connected	Processor	Memory	Disk space (for content)
1 - 49 devices / users	3 x 2.1 GHz. *	8GB RAM	40GB
50 - 99 devices / users	3 x 2.6 GHz *	12GB RAM	80GB
100 - 249 devices / users	4 x 3.0 GHz. *	16GB RAM	200GB
250 - 499 devices / users**	6 x 2.6 GHz. *	24GB RAM	350GB
500 - 999 devices / users**	8 x 2.6 GHz. *	32GB RAM	500GB

*In the case of virtual processors, it is not required to have 2 physical processors.

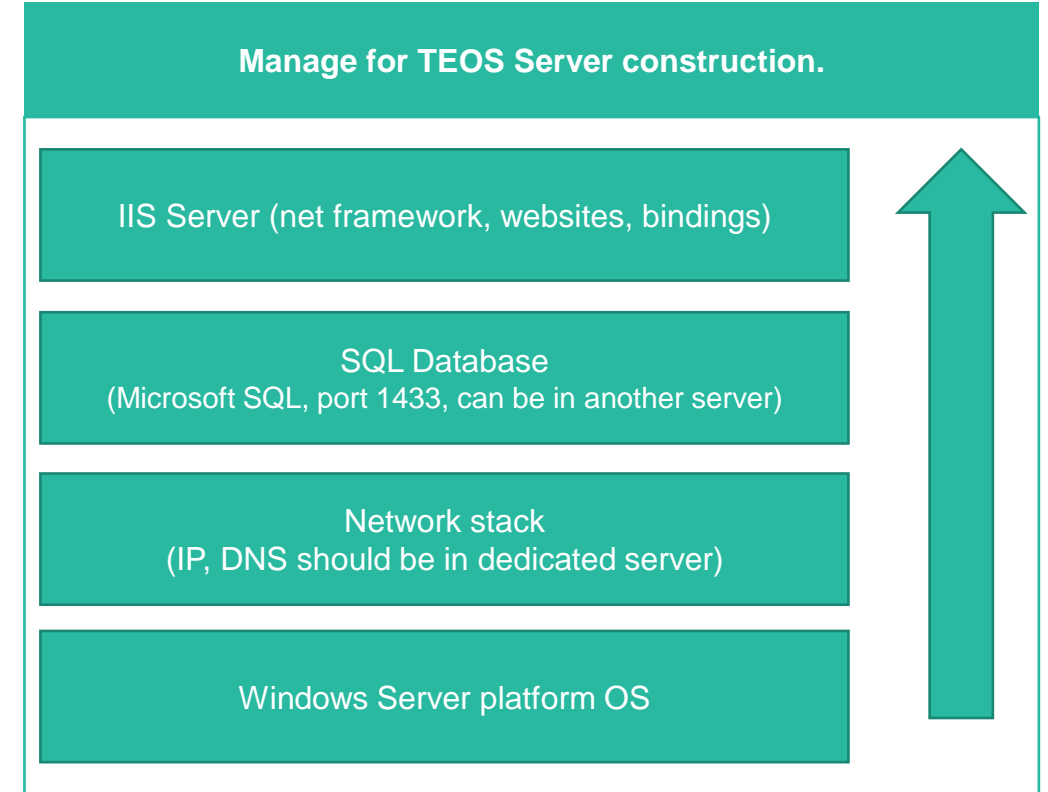
** The SQL server should be installed on a separate server with the same specifications as the TEOS server.

*** Performances are considering the usage of calendars such as Office365, Google or exchange, if there is no calendar use, performances can be decreased.

The server can **run on hardware** but also **run on a virtualization platform** like Hyper-V, VM-Ware, XEN server or others. For the best performance we recommend that the server has an **SSD storage device** directly connected, or in the case of **virtualization**, a **SAN with SSD storage**.

NOTE: If you require higher performance, please contact us for advice on hardware requirements.

NOTE: If Microsoft SQL Express is used in TEOS server localhost, it is recommended to use 1x socket with for 4 cores/CPU (maximum that SQL Express license can perform) just for SQL. If you use a Microsoft SQL Standard or any other license, please check the performance requirements to make sure it is efficient.



TEOS Application is installed on a server with such configuration and will interact with the different services

Manage for TEOS SSL Certificate on premise

The table below gives more information and requirements to take into consideration when using Manage for TEOS with **External platform used on different Add-ons**. **SSL certificates for TEOS are not provided by Sony for the on-premise version and are mandatory** for a full usage of TEOS features. Online certificates are compatible with Manage for TEOS, no internal certificates and self signed certificates.



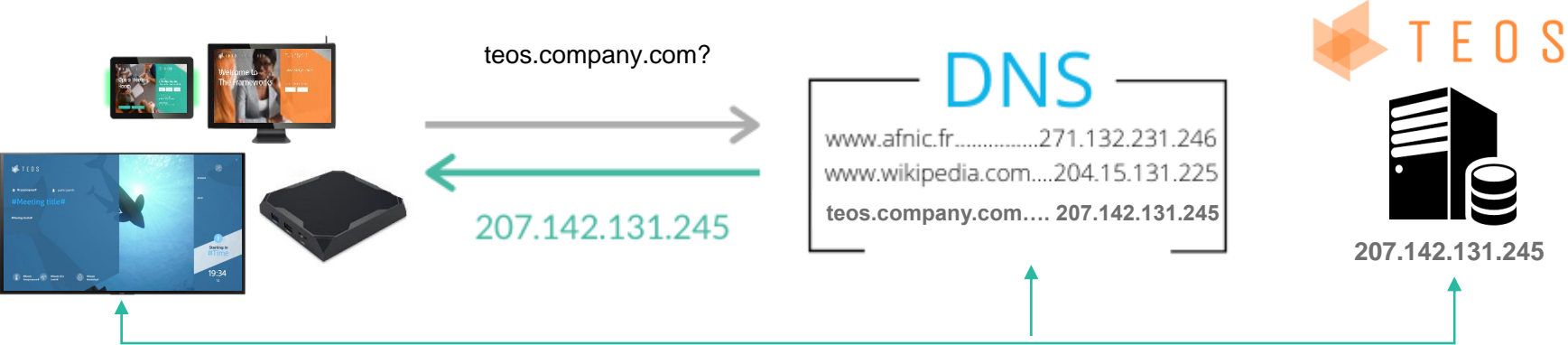
Official Trusted Root Certificates on Android Mandatory

1. Open Settings
2. Tap "Security"
3. Tap "Encryption & credentials"
4. Tap "Trusted credentials." This will display a list of all trusted certs on the device.

TEOS Add-on	External platform compatible	SSL Certificate Required*
Wayfinding for TEOS	Office365	NO (OAuth 2.0)
	Google Calendar	YES (OAuth 2.0)
	RSS (SOCIAL MEDIAS)	YES
Reception for TEOS	Office365	YES (Add-in)
	Outlook (from 2010)	YES (Add-in)
	RSS (SOCIAL MEDIAS)	YES
	Office365	NO (OAuth 2.0)
	Google Calendar	YES (OAuth 2.0)
Book for TEOS	Office365	NO (OAuth 2.0)
	Google Calendar	YES (OAuth 2.0)
Meeting Interface / Meeting display / Rooms status	Office365	NO (OAuth 2.0)
	Google Calendar	YES (OAuth 2.0)
Employee App/ Outlook Add-in (only with Office365)	Office365	YES
	Google Calendar	YES
	Calendar for TEOS	YES
	Microsoft Exchange	YES
	Single Sign On	YES

Manage for TEOS DNS Entries

The Domain Name of the server (IIS) is configurable during the installation of the TEOS application, make sure the DNS name of TEOS is reachable by the devices and users.



TEOS Web Service	DNS Record	DNS record example
Main website client access	yourcompany.com	teos.sony.com

For Manage for TEOS to work properly there needs to be multiple DNS records pointing to the Manage for TEOS server IP address, for example:

teos.sony.com can be replaced by your own domain name at the installation time or using domain name changer software

TEOS On-premise device configuration and communication

Platform domain is in your DNS name.

DNS need to be accessible as well as port opens to make sure communication will work



TEOS Android Player
(Signage app)



TEOS Control



TEOS Connect

Company network



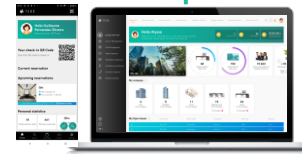
Please follow the existing installation guides for BRAVIA and take the IP address of your BRAVIA to put it in your TEOS Server



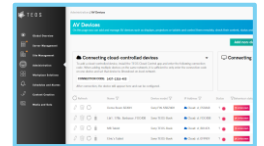
When receiving a new tablet, all the apps are directly installed in the tablet. You only need to take the IP address from the device to add it in TEOS Server



Please follow the existing installation guides for the installation of an Android Player and take the IP address of your Player to put it in your TEOS Server



You can use the Mobile apps for TEOS or the Client Web access, insert the TEOS URL
<https://yourcompanyteosname.com/employeeapp> for the web access and your login and password



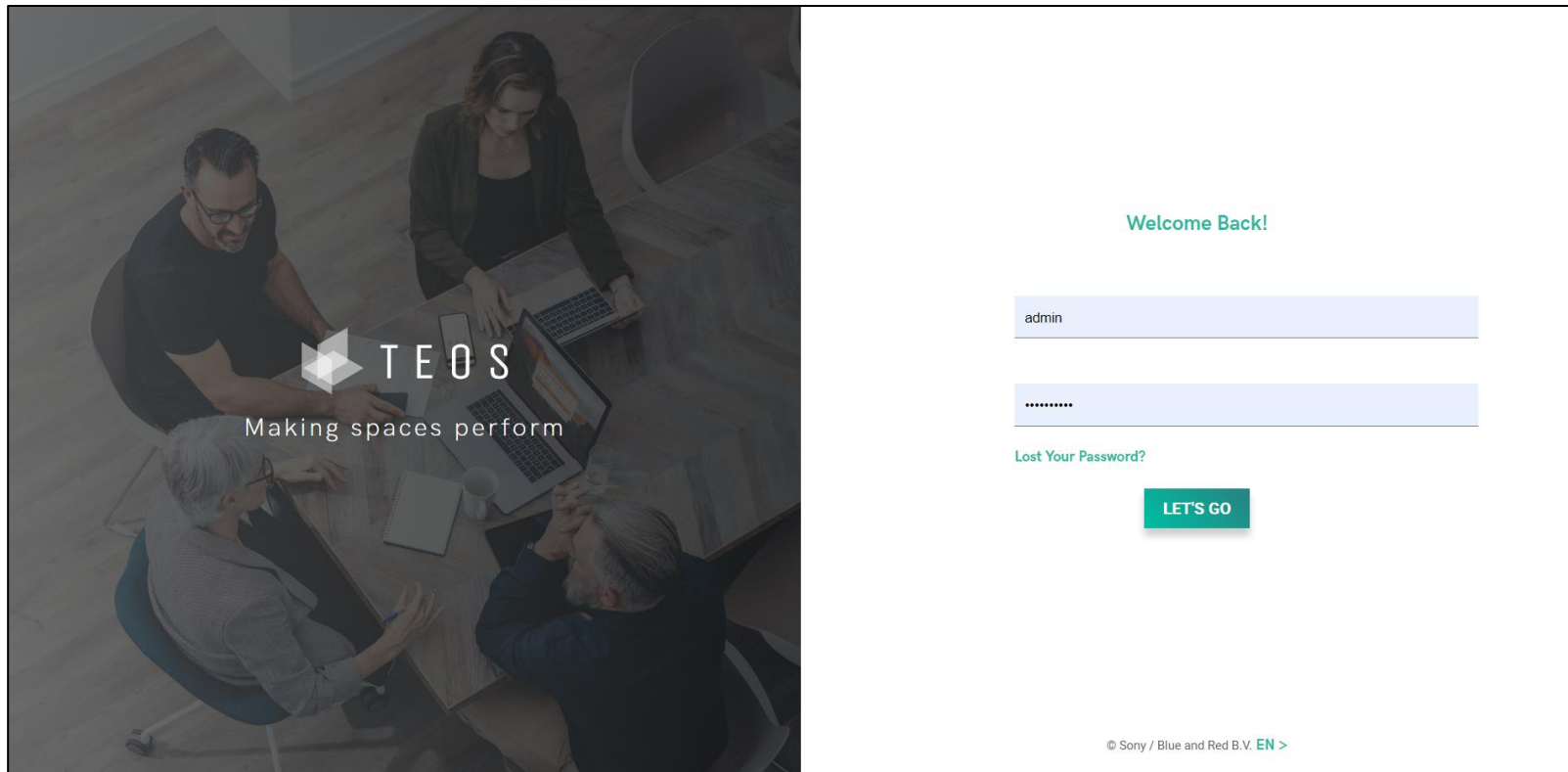
<https://yourcompanyteosname.com>

First connection of a device in TEOS Server is done by adding the device IP address in TEOS and adding license to the device (device need to be configured). TEOS is after sending commands to the devices

Add your device TEOS (1/3)

Please find below the different steps to connect your devices to TEOS

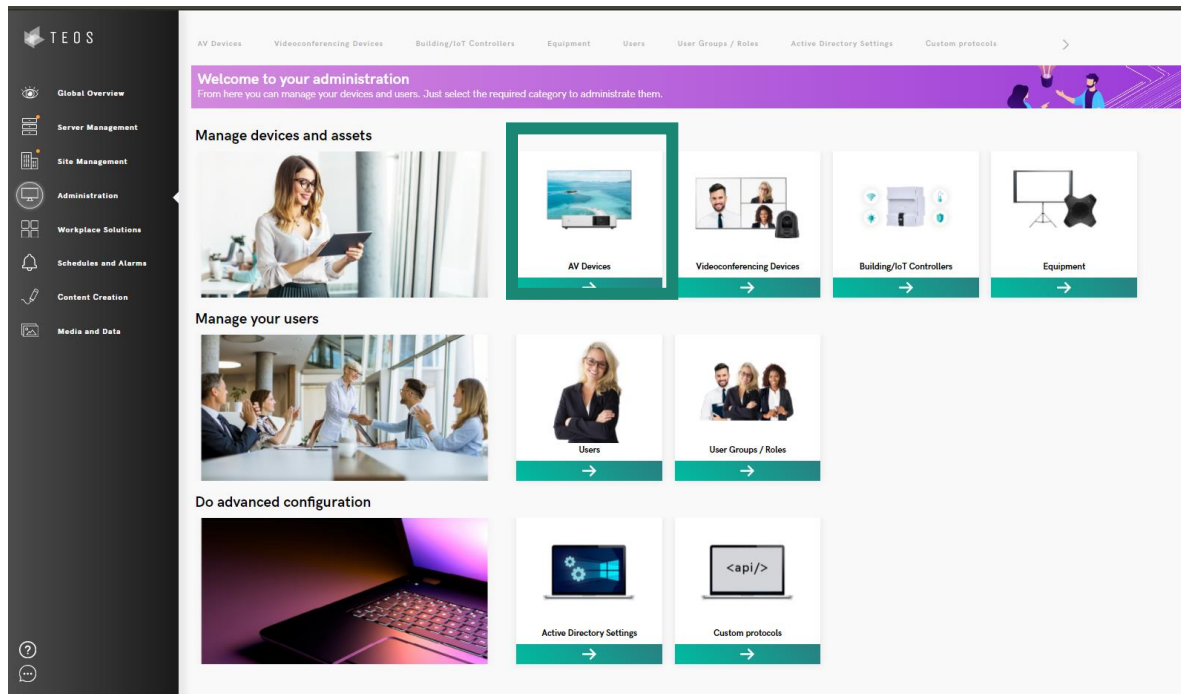
1. Make sure your TEOS Apps are installed and configurations are done in your device
2. Connect to your TEOS platform for example <https://sony.teosonpremise.com>, default login and password are : admin/admin



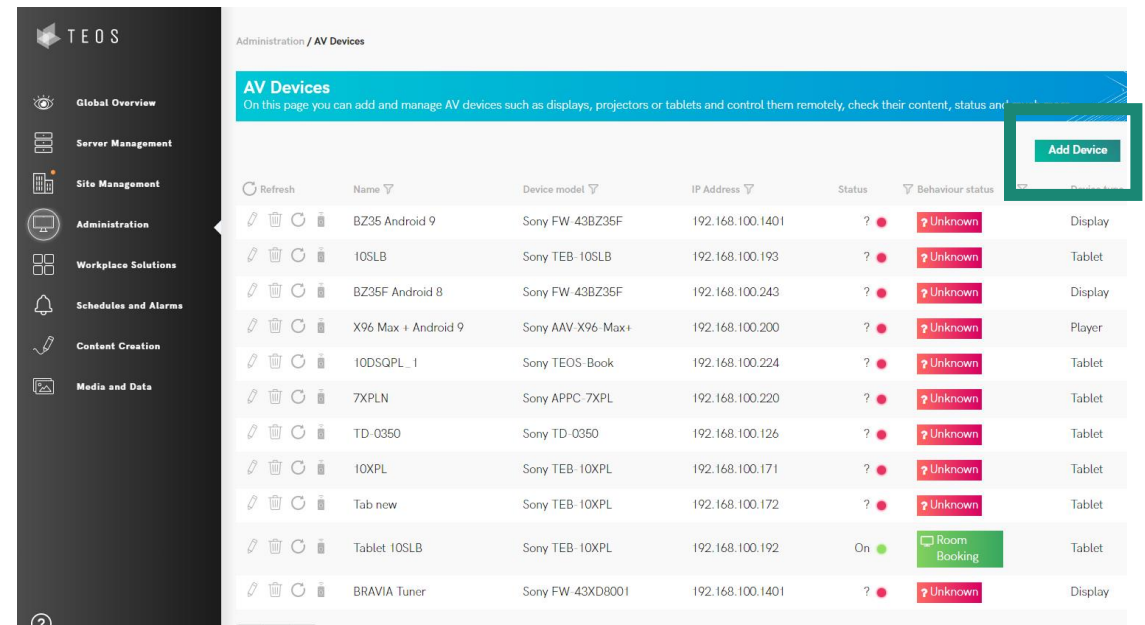
Add your device TEOS (2/3)

Please find below the different steps to connect your devices to TEOS

3. Go to Administration > AV Devices



4. Under AV Device, click on « add device » to add manually your device, you can also do an auto-discovery or import a group of device from an excel



Add your device TEOS (3/3)

Please find below the different steps to configure your devices to TEOS

5. You can finalise your device configuration by adding the **IP address** of your device, **assigning his license**, defining a **device name**, linking it with a **device localization**, etc. Press save when configuration is finished

Administration / AV Devices

Edit device

On this page you can change the settings of your AV device to be used in TEOS.

General **Status**

General

Name: ?

Device type: ▼

Device brand: ▼

Model: 🔍 ?

IP Address: ?

License type: ▼ ?

Room/desk solution type: ▼ ?

Controlled by custom protocol: ☐ ?

Ignore schedule: ☐ ?

Device Localization

Company:

Site:

Building:

Floor:

Room:

Room:

Desk Zone:

Basic desk zone:

Basic Zone 2:

Advanced desk zone:

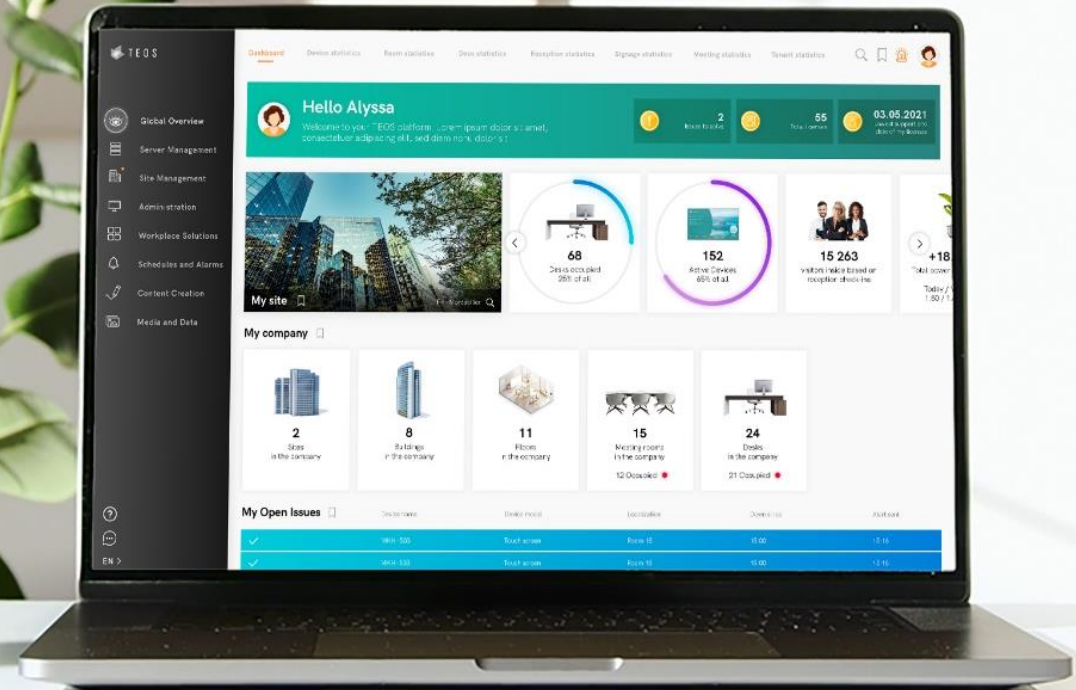
Basic Zone 3:

6. Your device status become green and your device takes your configuration. TEOS Start pushing the content at that moment.

Refresh	Name	Device model	IP Address	Status	Behaviour status
	Tablet 10SLB	Sony TEB-10XPL	192.168.100.192	On	Room Booking

Technical workflow

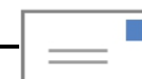
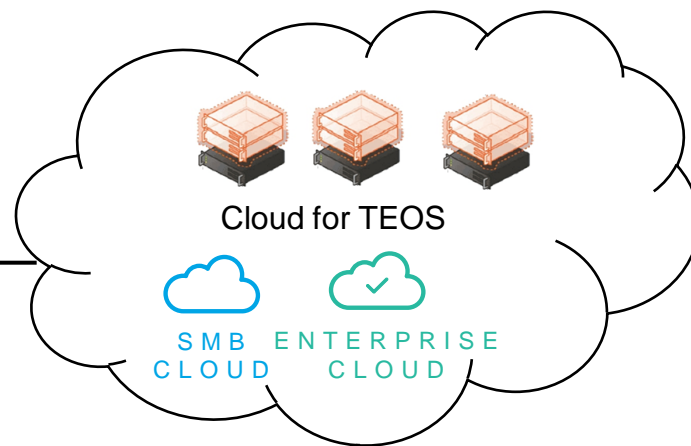
TEOS Server CLOUD



CLOUD architecture (pull method)

TEOS Employee app and Mobile outgoing to server

- TCP – 443
- Connection can be done directly using 3G/4G access too



Connection to mail server (O365, Google) outbound to mail service



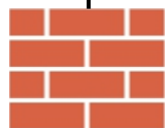
Azure AD for calendar and user Management



External datasources incoming to server
TCP - 443



Platform receiving the data from the LoRaWAN Gateway and integrated into TEOS



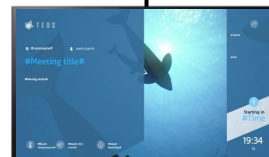
Tablets for TEOS outgoing to server

TCP – 443
TCP – 5671 (TEOS Cloud Control)
TCP – 5672 (TEOS Cloud Control)



Player for TEOS outgoing to server

TCP – 443
TCP – 5671 (TEOS Cloud Control)
TCP – 5672 (TEOS Cloud Control)
UDP - 224.0.0.3:8889 (for videowall)
TCP – 9020 (Connect License)



BRAVIA Android outgoing to server

TCP – 443
TCP – 5671 (TEOS Cloud Control)
TCP – 5672 (TEOS Cloud Control)
UDP - 224.0.0.3:8889 (for videowall)
TCP – 9020 (Connect License)



Third party devices Incoming from TEOS Cloud Control device

Type 8 and 0 (icmp)
TCP - Port 443 (Web server)
TCP – 4352 (PJLink projector)
TCP – 53595 (Sony Projectors ADCP)
TCP – 5000 (Phillips Monitor IP control)
TCP – 1515 (Samsung monitors IP control)
TCP – 10161 (LG Displays IP SNMP protocol)
TCP – 10162 (LG Displays IP SNMP protocol)
UDP – 161 (LG Displays IP SNMP protocol)
UDP – 162 (LG Displays IP SNMP protocol)
TCP – 4000 and 4001 (Barco Clickshare)
UDP – 7 and 9 (Wake On Lan)

UDP - 1700
UDP - 1900
TCP - 443
TCP - 1881, 1882, 1883



LoRaWAN Gateway Need internet access for TTN Data reception



Wireless (LoRa Frequency) and autonomous, no cable

CLOUD app and device configuration

Platform domain is in teoscloud.com, when purchasing Cloud for TEOS, you will be able to define the first name part like **sony.teoscloud.com**. TEOS Cloud server is protected with an SSL certificate



TEOS Cloud Control



TEOS Android Player
(Signage app)



TEOS Control

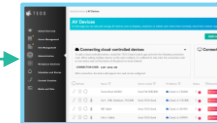


TEOS Connect

Simple internet Access



Out to TEOS server 5672, 5671
out 443



Manage for TEOS
Multi-tenant server

<http://sony.teoscloud.com>



All the configuration of the devices remains the same as it is for on premise installation. Please follow the existing installation guides for BRAVIA and just install on top the TEOS Cloud Control app



All the configuration of the devices remains the same as it is for on premise installation. In general tablets are already pre configured. You only have to install the TEOS Cloud Control App version



All the configuration of the devices remains the same as it is for on premise installation. Please follow the existing installation guides for players and just install on top the TEOS Cloud Control app



Client Web access and or Mobile app access using an internet access

Connect your device to the Cloud for TEOS (1/4)

Please find below the different steps to connect your devices to TEOS

1. Make sure your TEOS Cloud app is installed in your device and all the configuration is done
2. Connect to your CLOUD platform for example <https://sony.teoscloud.com>, default login and password are admin/admin



Welcome Back!

Guillaume.Oliveira@sony.com

[Lost Your Password?](#)

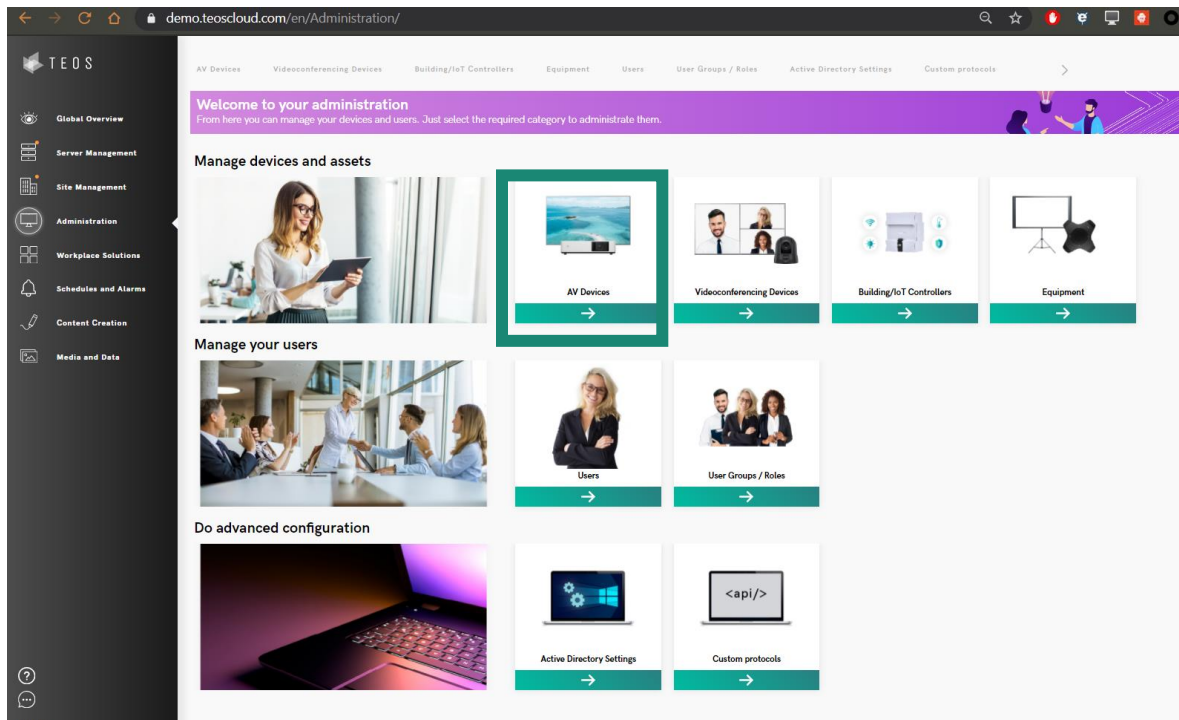
LET'S GO

© Sony / Blue and Red B.V. [EN >](#)

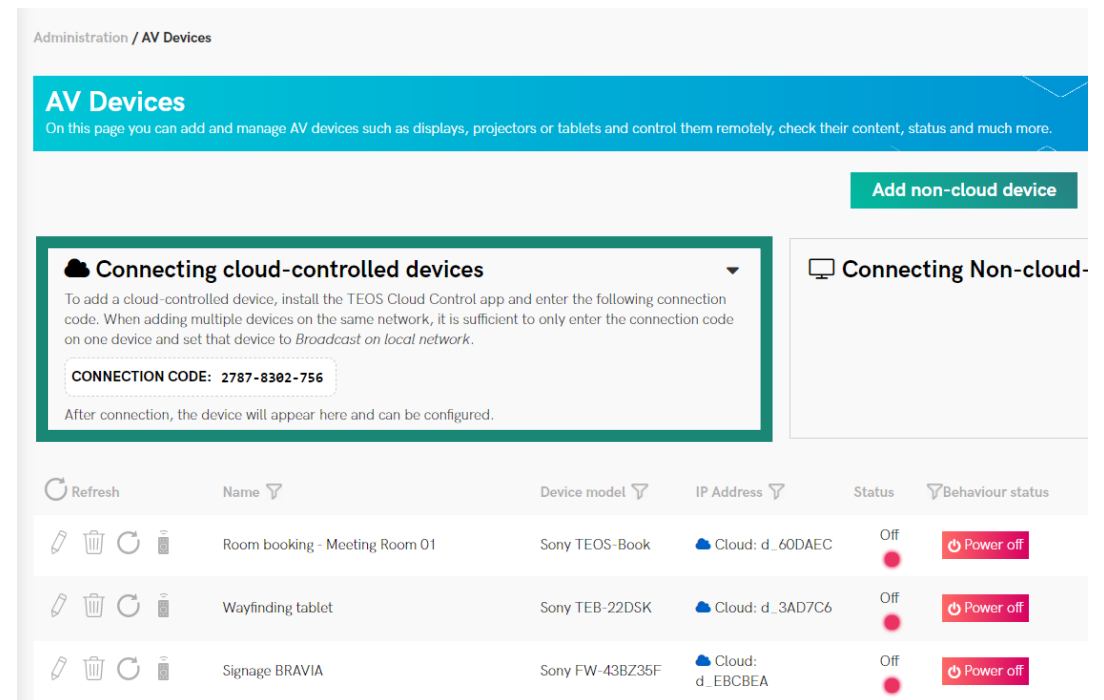
Connect your device to the Cloud for TEOS (2/4)

Please find below the different steps to connect your devices to TEOS

3. Go to Administration > AV Devices



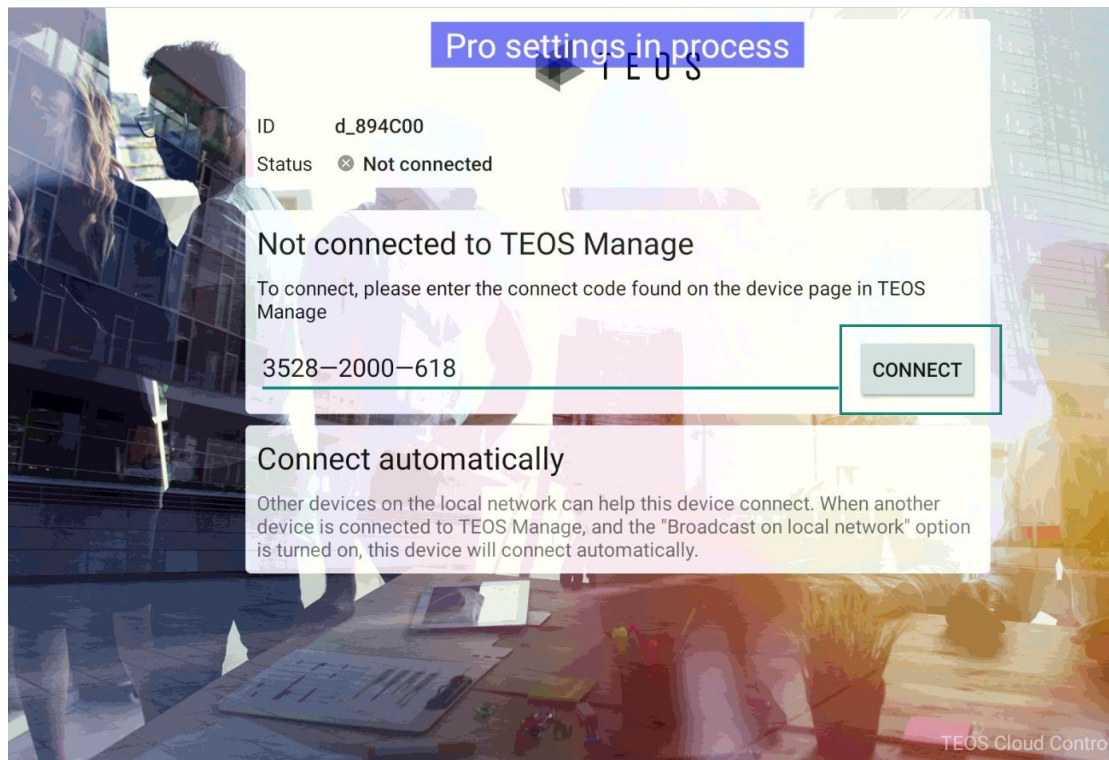
4. Under AV Device, drop down the « Connecting cloud-controlled devices Connection Code and copy it into your device TEOS Cloud control App, after opening it in your device



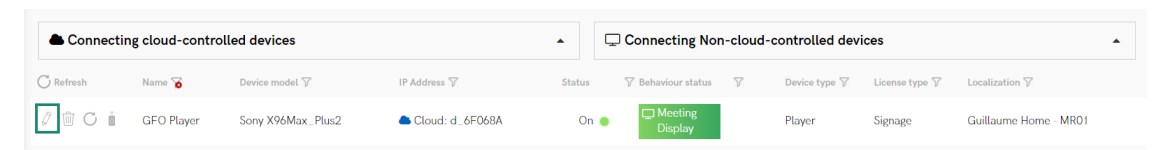
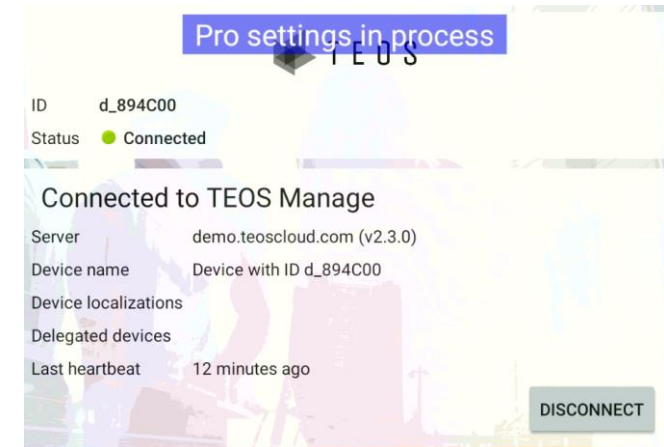
Connect your device to the Cloud for TEOS (3/4)

Please find below the different steps to connect your devices to TEOS

5. After putting the passcode in your device click « connect »
Your device will automatically register under your TEOS Server



6. Under AV Device, refresh your web page with F5 key, your device will be then visible in TEOS and ready for configuration and license registration. Next step is to go to device edit



Connect your device to the Cloud for TEOS (4/4)

Please find below the different steps to configure your devices to TEOS

1. You can finalise your device configuration by assigning his license, defining a device name, linking it with a device localization, etc. Press save when configuration is finished

Administration / AV Devices

Edit device
On this page you can change the settings of your AV device to be used in TEOS.

General Mirroring Settings Status

General

Name: BRAVIA For Meeting Room 01

Device type: Display

Device brand: Sony

Model: FW-55BZ40H

IP Address: Cloud: d_72BF48

Sub device: No sub-device

License type: Meeting Room

Ignore schedule: ☐

Block when on external input: ☒

TEOS App settings

Rotation (*): None

Always in front: ☐

Device Localization

- Demo Company
 - SIT HQ Via Rizzoli
 - Building Name
 - Ground floor
 - Parking Company
 - First floor
 - Meeting Room 01**
 - Desk 01
 - Meeting Room 02
 - Meeting Room 03
 - Desk 02
 - Desk 03
 - Desk 04
 - Desk 05
 - Desk 06

Back Save

2. Your device status become green and your device takes your configuration

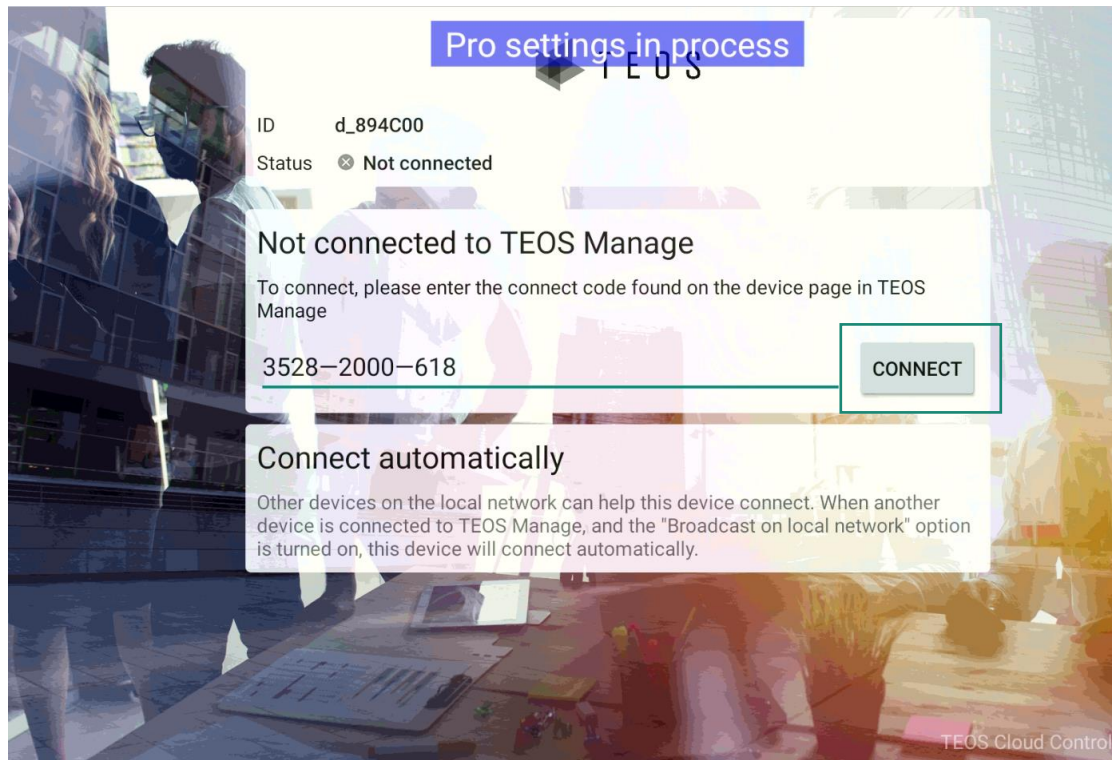


Connect a third party device to the Cloud for TEOS

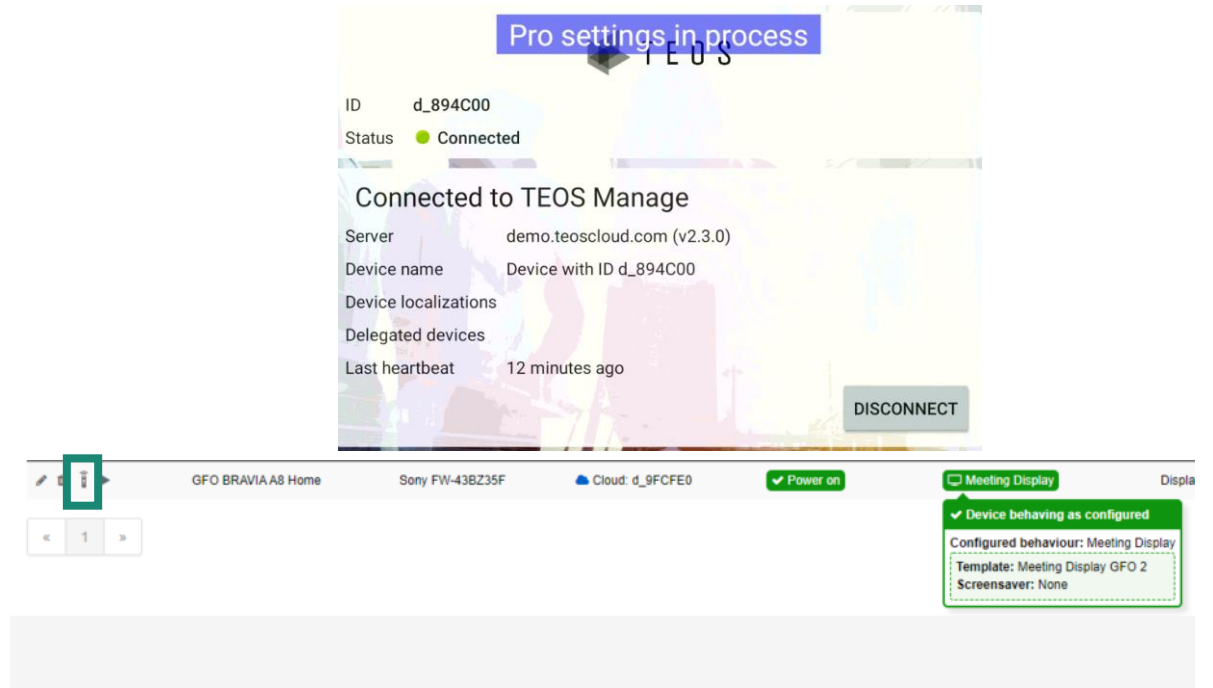
For this Integration you will need a device compatible with TEOS such as BRAVIA Android, tablet for TEOS, and Android player for TEOS.

5. After putting the passcode in your device click « connect »

Your device will automatically register under your TEOS Server

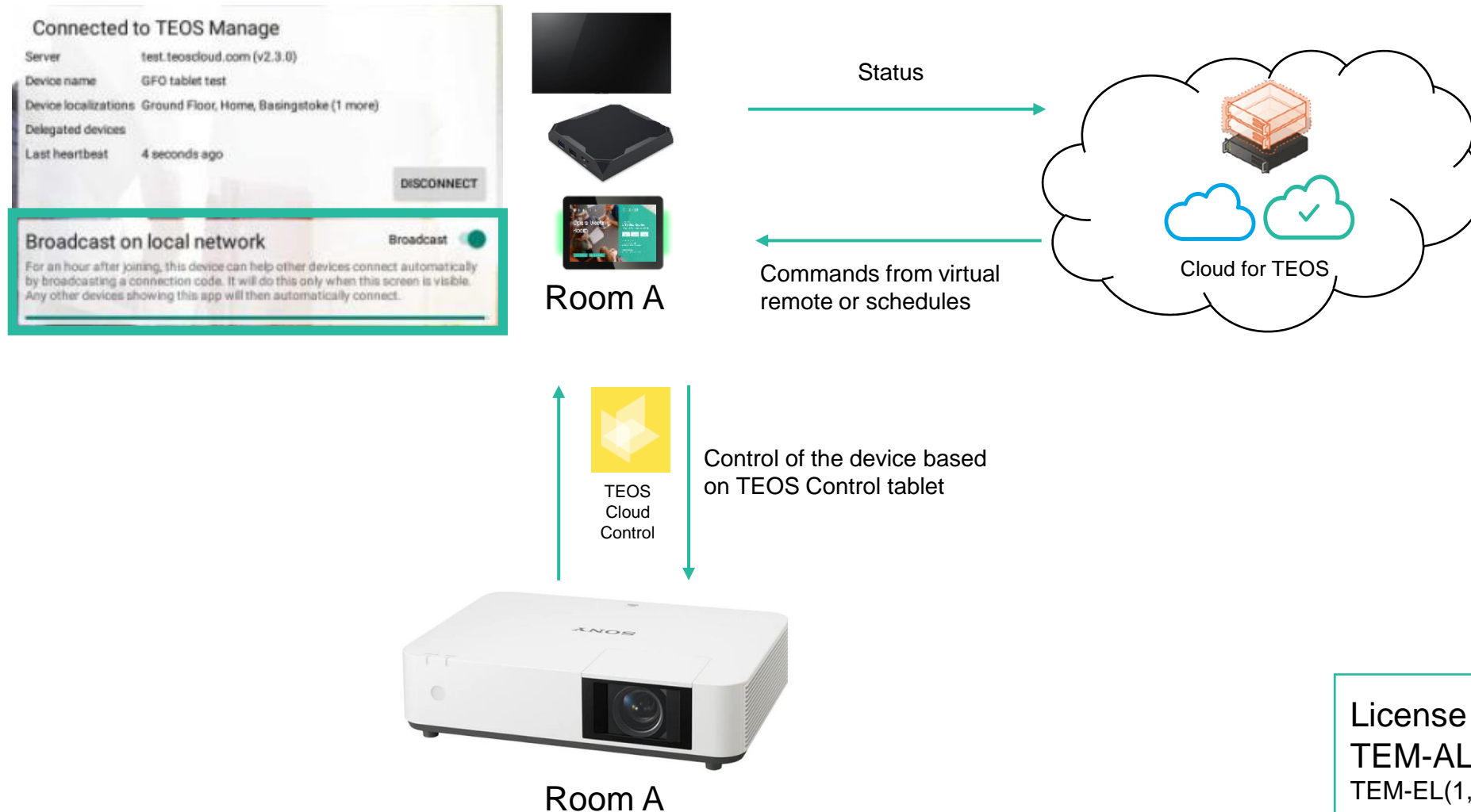


6. Under AV Device, refresh your web page with F5 key, your device will be then visible in TEOS and ready for configuration and license registration. Next step is to go to device edit



CLOUD for TEOS – Workflow example

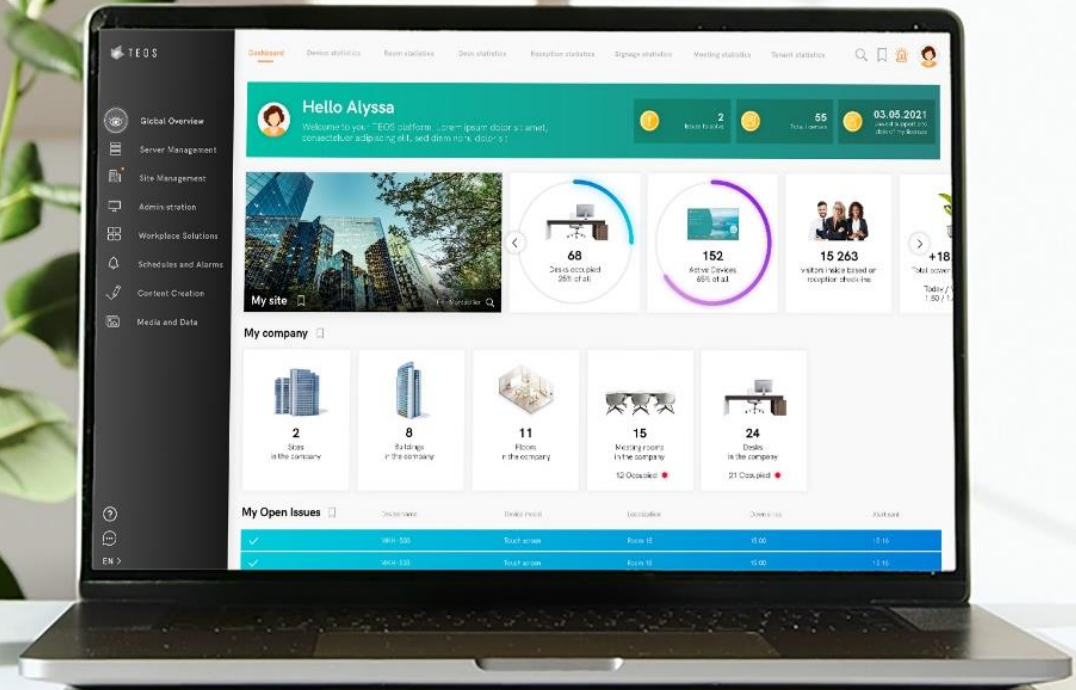
Meeting participants can take control of connected devices in the room from an interactive digital interface to adjust setting such as power or volume.



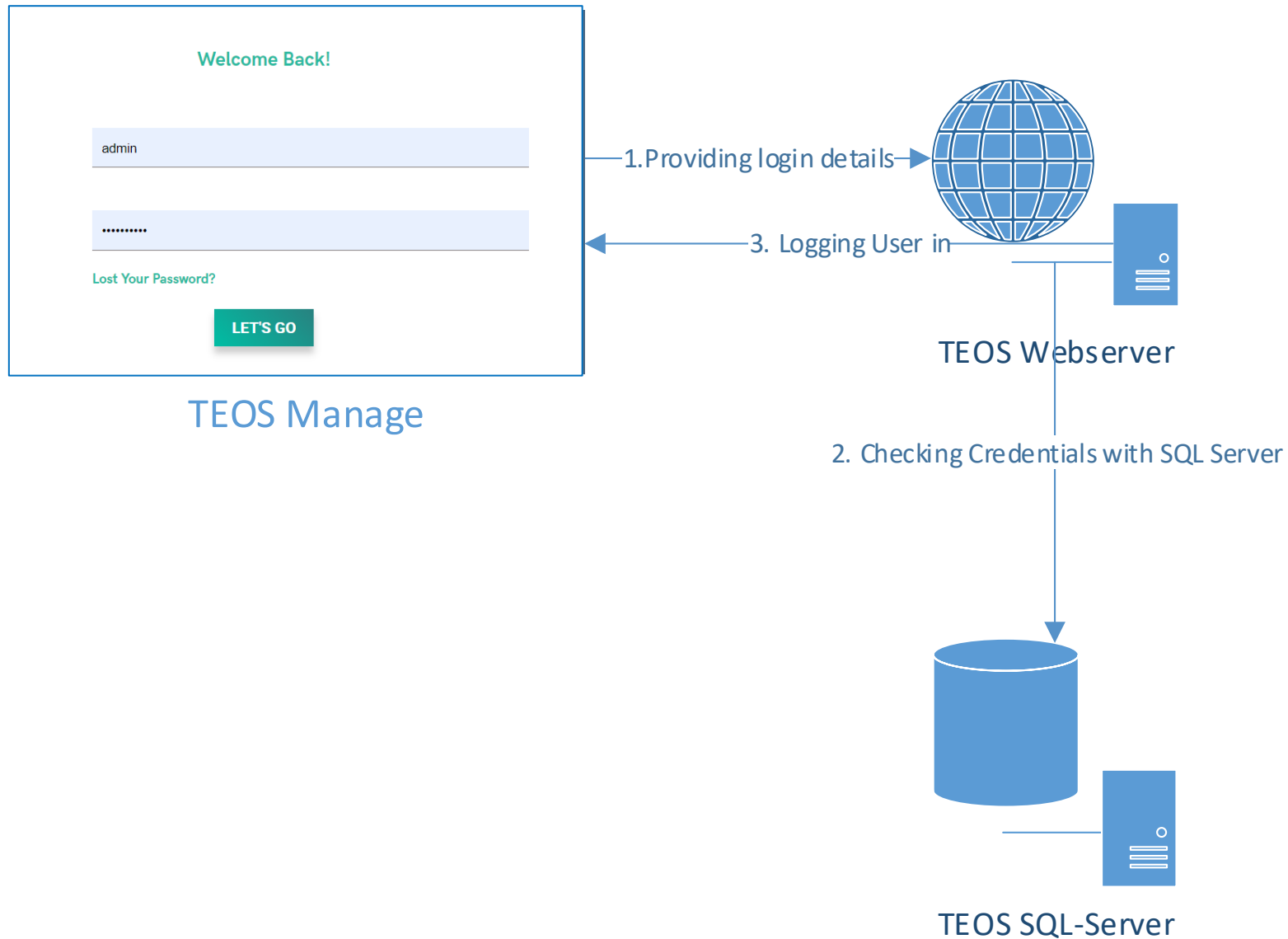
License for device used
TEM-AL(1,3,5)Y (tablet)
TEM-EL(1,3,5)Y projector for example

Technical workflow

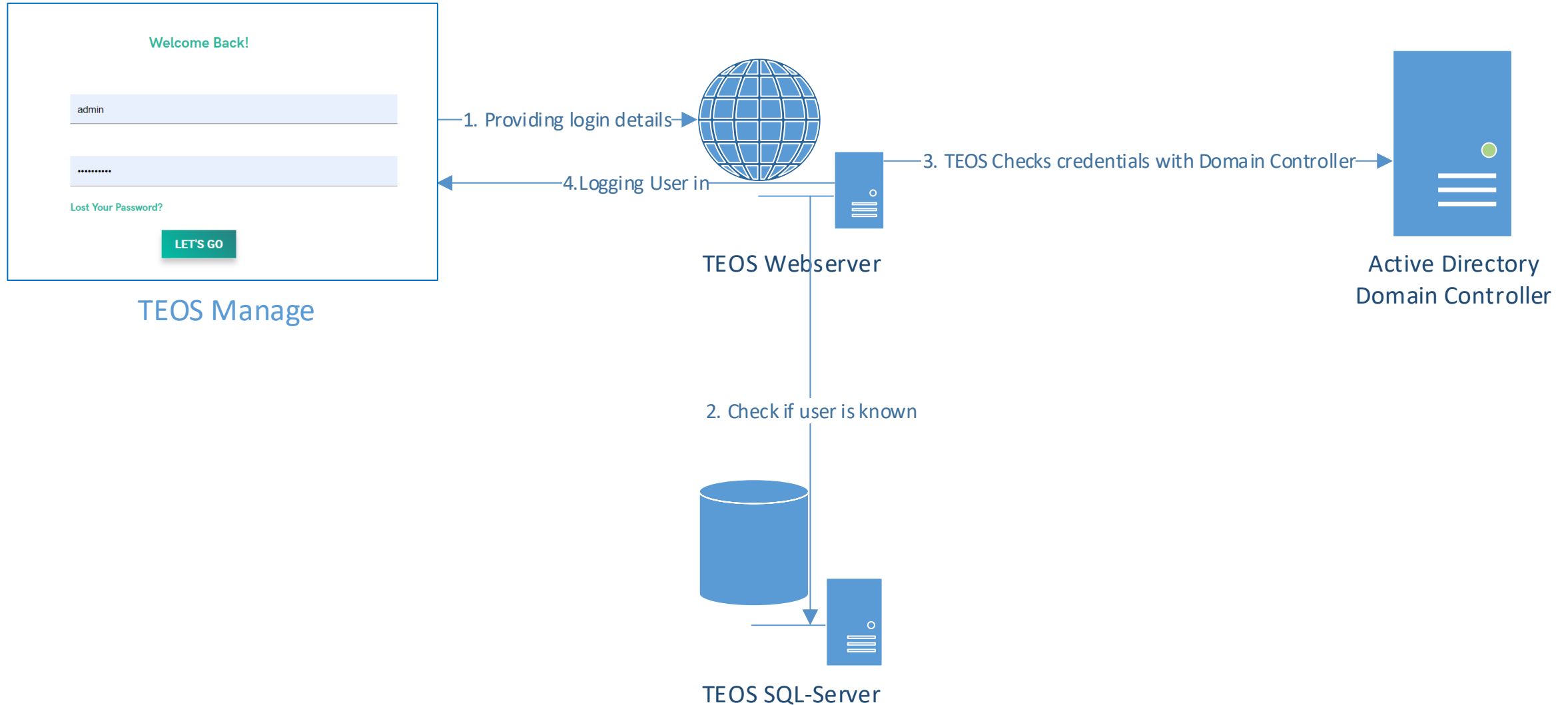
TEOS Communications



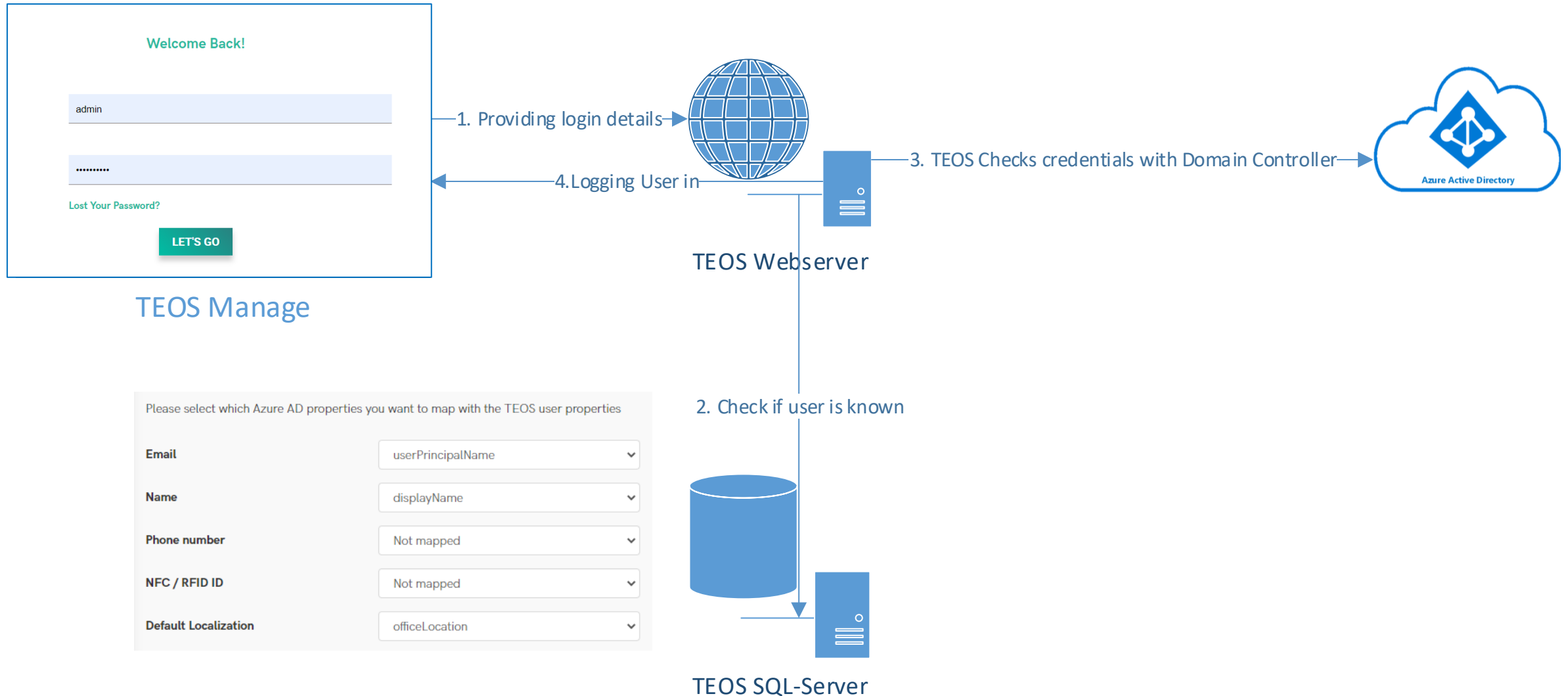
Manage for TEOS – Normal login



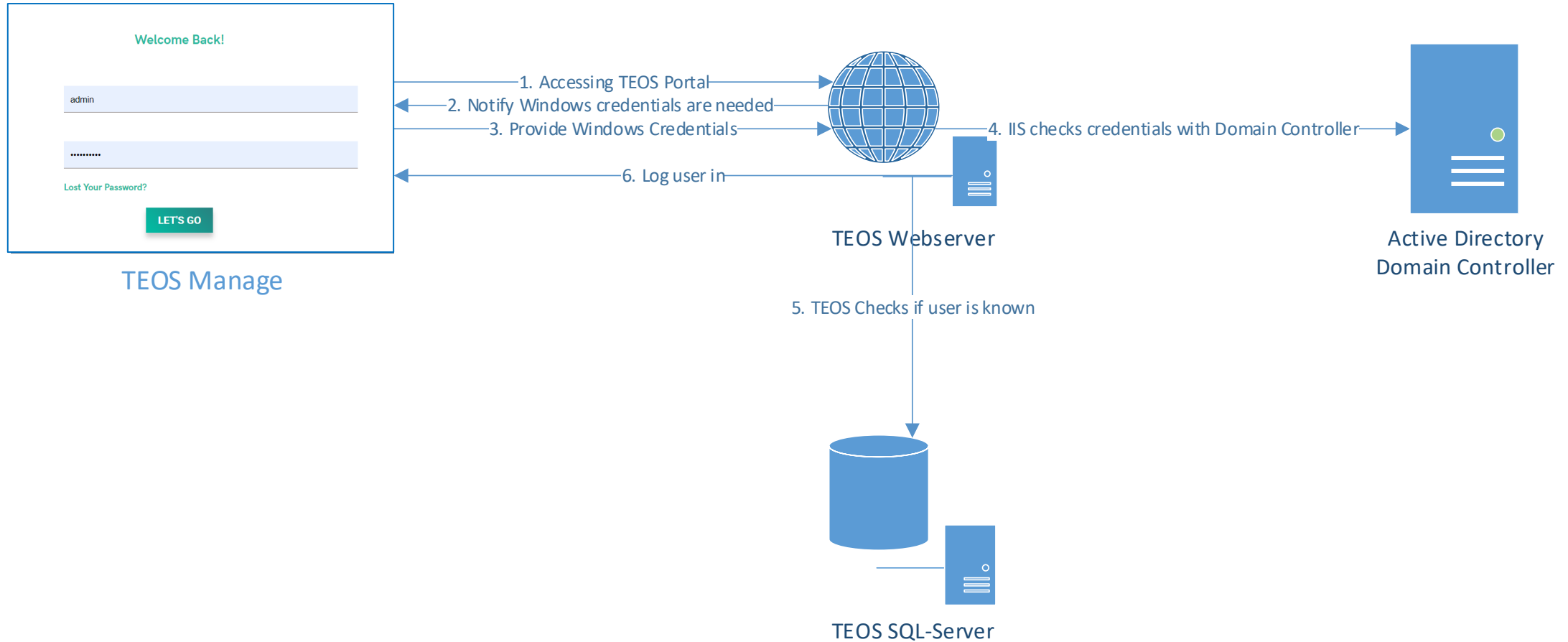
Manage for TEOS – Login with Active Directory



Manage for TEOS – Login with Azure Active Directory

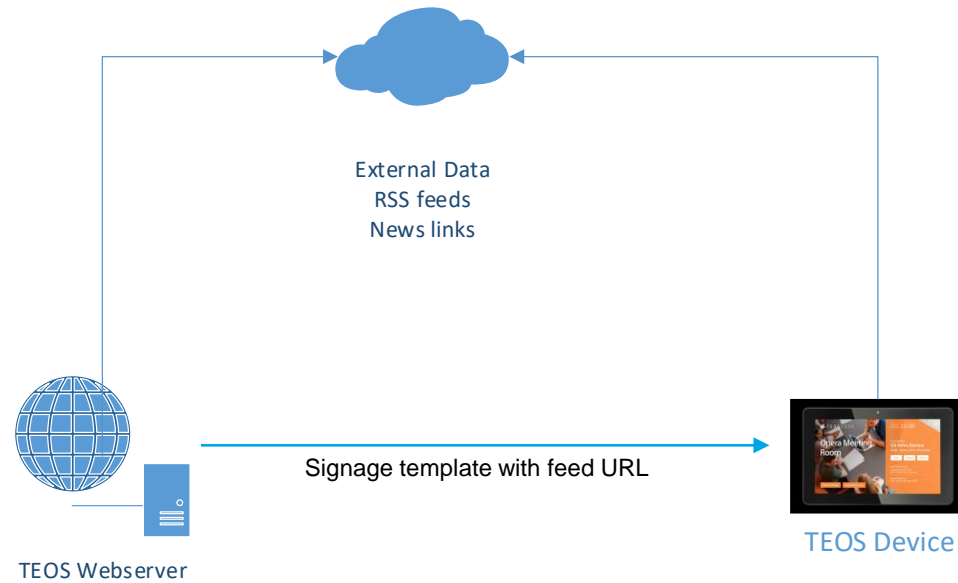


Manage for TEOS – Login with SSO



Manage for TEOS – Datasources

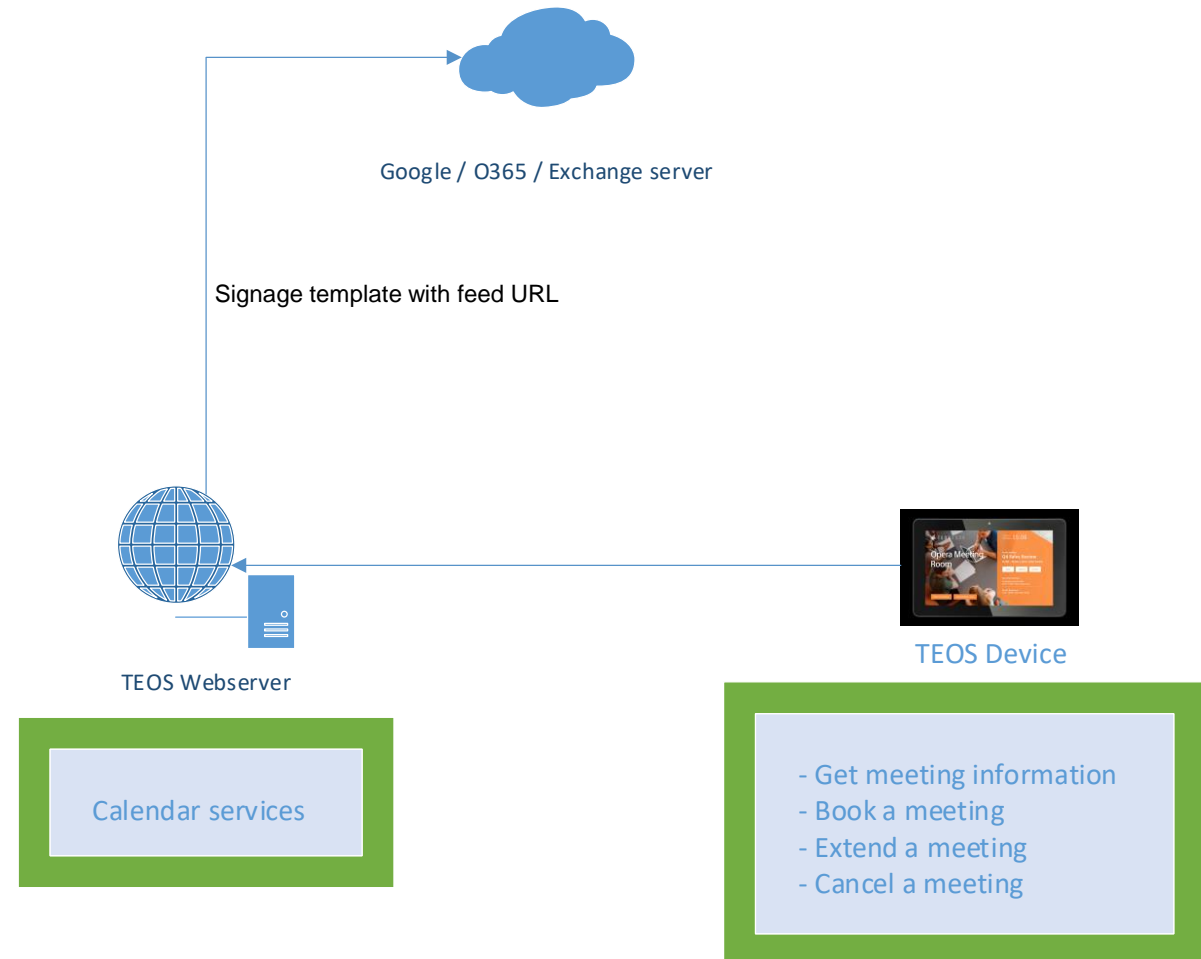
External datasource (Social media, RSS/XML feed)



Content Creation



Office 365 (OAuth2), Google(Oauth), Exchange, Calendar Sync (Via Manage for TEOS Server)



BRAVIA for TEOS

Technical workflows



CLOUD > BRAVIA Android port communication

BRAVIA Android



**Outgoing to server
(Server listening ports)**

- TCP – 5671 (TEOS Cloud Control)
- TCP – 5672 (TEOS Cloud Control)
- TCP - Port 443 (Web server)

Sending commands and data



Initiating the connection (Pull)

CLOUD for TEOS



**SMB
CLOUD**



**ENTERPRISE
CLOUD**

No port incoming from server

**TEOS
compatible
add-ons**



3 SIGNAGE



WAYFINDING



Corporate IPTV



Videowall



CONNECT



Rooms Status



Meeting Display

ON-PREMISE > BRAVIA Android port communication

BRAVIA Android



Outgoing to server (Server listening ports)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)

Initiating the connection (push)



Sending Status and data

Manage Server for TEOS



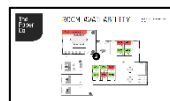
Incoming from server (BRAVIA listening ports)

- Type 8 and 0 (icmp ping for autodiscovery)
- TCP – 6541 (Player Signage app)
- TCP – 5555 (for Maintenance)
- TCP – 20060 (IP Control)
- TCP – 20332 (Meeting room API)
- TCP – 20335 (Firmware upgrade)
- UDP - 224.0.0.3:8889 (for videowall)
- TCP – 9020 (Connect License)

TEOS compatible add-ons



SIGNAGE



WAYFINDING



Corporate IPTV



Videowall



CONNECT



Rooms Status



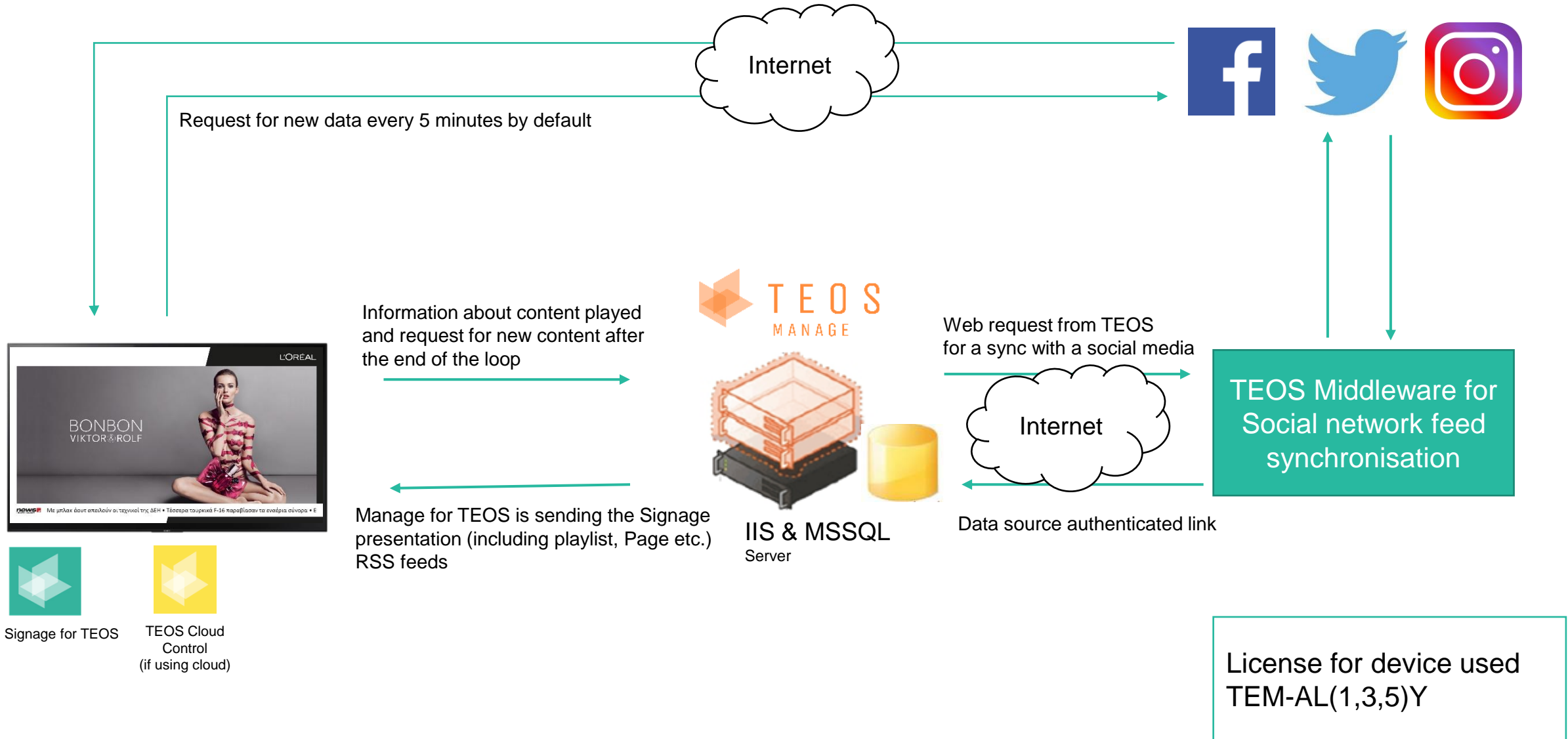
Meeting Interface



Meeting Display

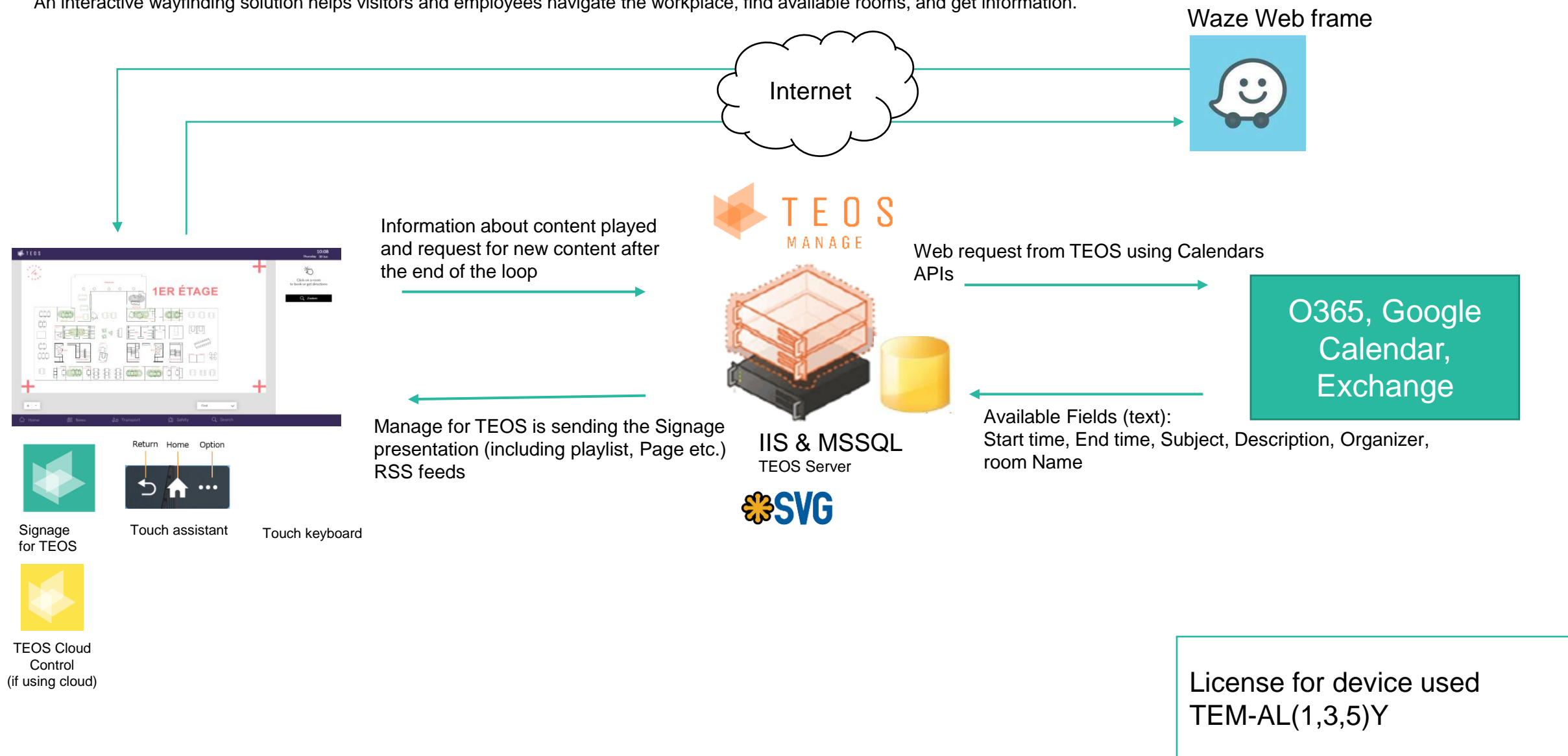
Signage for TEOS - Workflow Example with RSS feeds

Customizable digital signage allows companies to impress and inform visitors and employees.



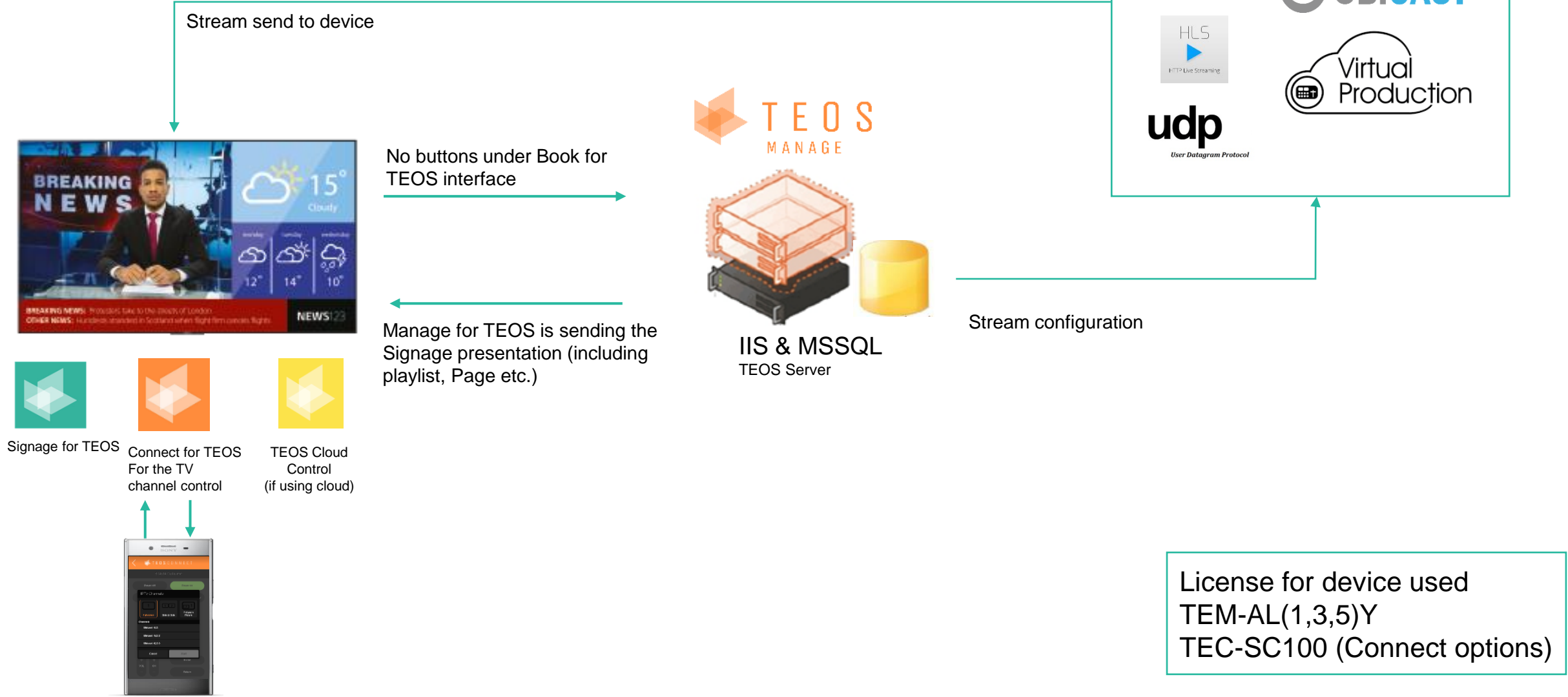
TEOS Wayfinding - Workflow Example

An interactive wayfinding solution helps visitors and employees navigate the workplace, find available rooms, and get information.



Corporate TV for TEOS - Workflow Example with stream

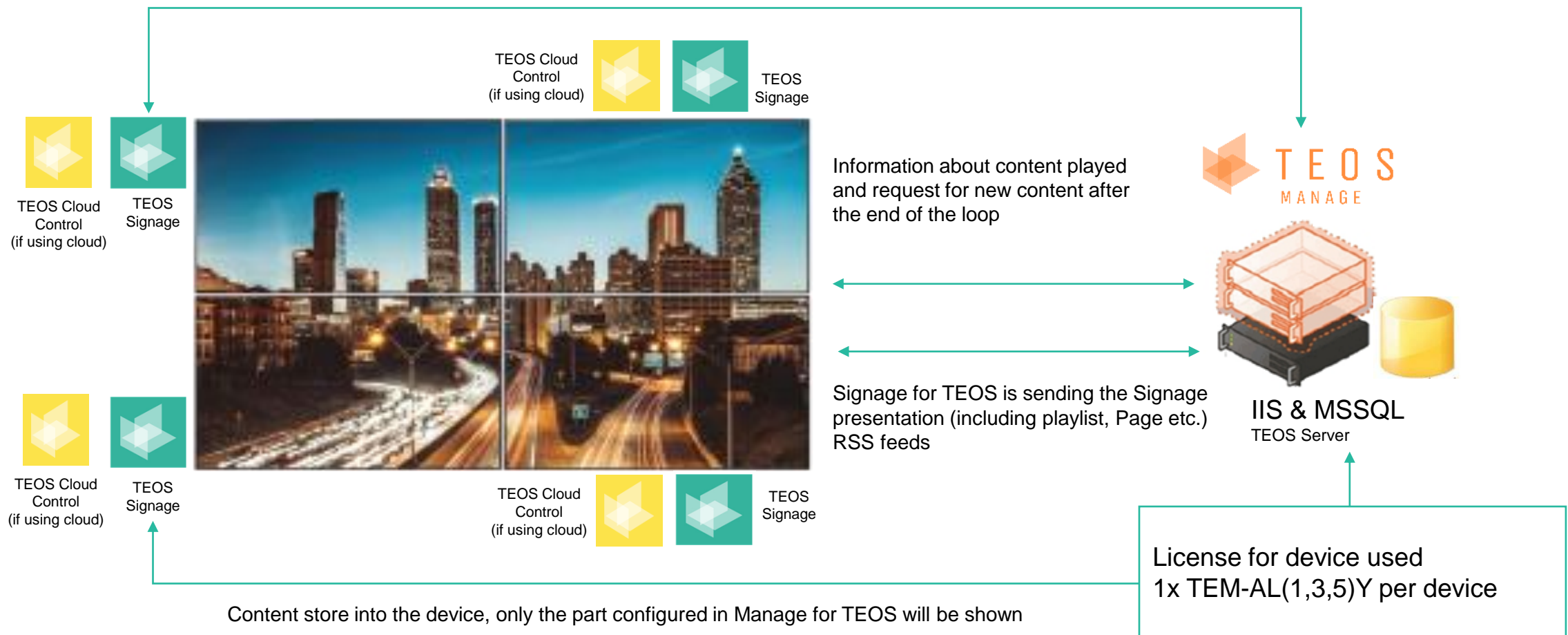
Stream live TV channels throughout the workplace for employees. Channels can be customized and controlled. TEOS is only configuring the interface of the app and the Signage app can decode different streams



TEOS Videowall BRAVIA - Workflow Example

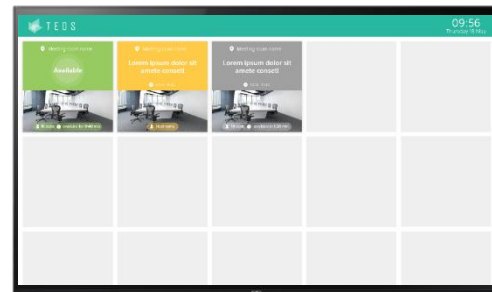
A videowall has one master display that speeds up or slows down the other displays in the videowall based on timestamps every few seconds. The content is downloaded into each screen, Manage for TEOS decides which part it needs to show based on the x/y location

Content store into the device, only the part configured in Manage for TEOS will be shown



TEOS Rooms Status - Workflow

Configuration is very quick, you just have to select the location which includes the meeting rooms. Select the template to show the information and automatically TEOS will map into the interface all the meeting rooms showing room name, availability, picture, seats etc.



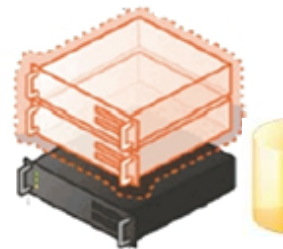
Signage for TEOS



TEOS Cloud Control
(if using cloud)

Device status and data

Manage for TEOS is sending the Content configured in the Rooms status.



IIS & MSSQL
TEOS Server

Web request from TEOS using Calendars APIs

Office365,
Google Calendar,
Exchange,
TEOS Calendar
(Directly on TEOS server)

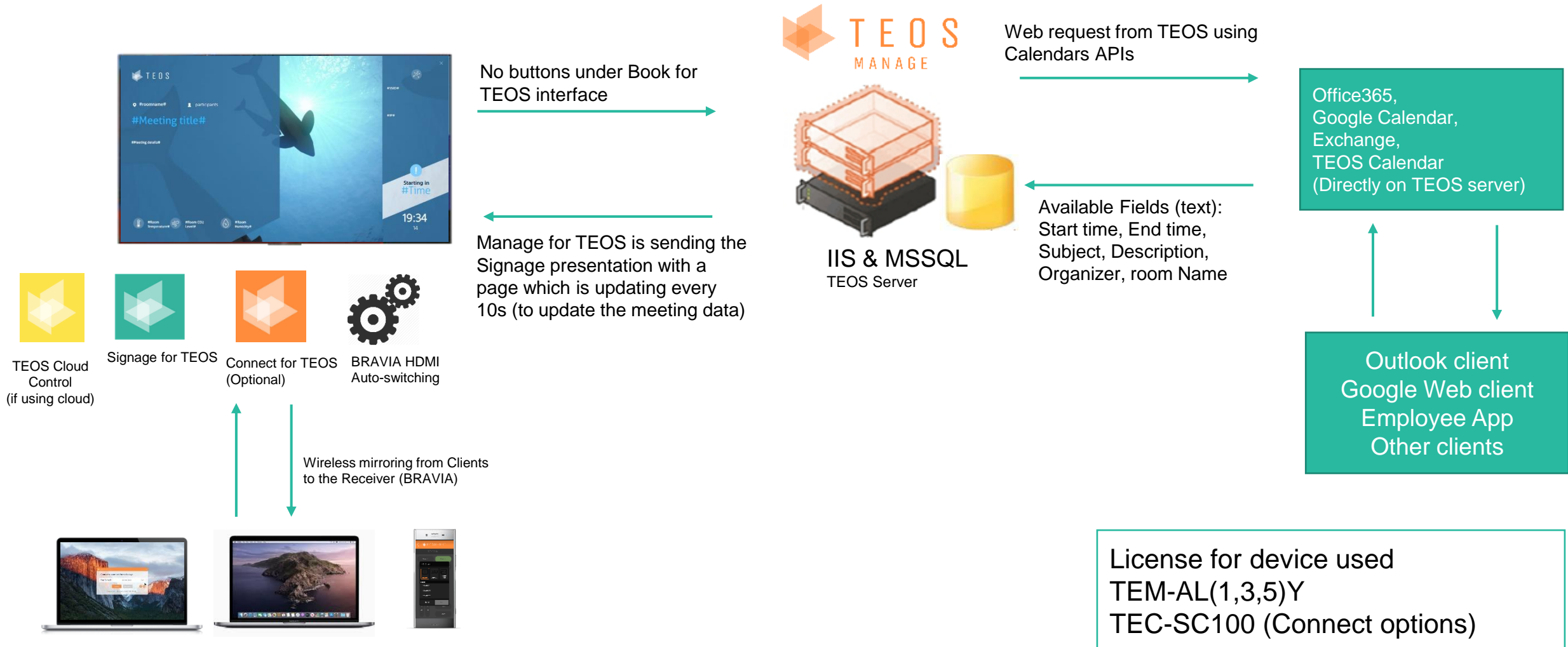
Available Fields (text):
Start time, End time, Subject, Description, Organizer,
room Name

Outlook client
Google Web client
Employee App
Other clients

License for device used
TEM-AL(1,3,5)Y

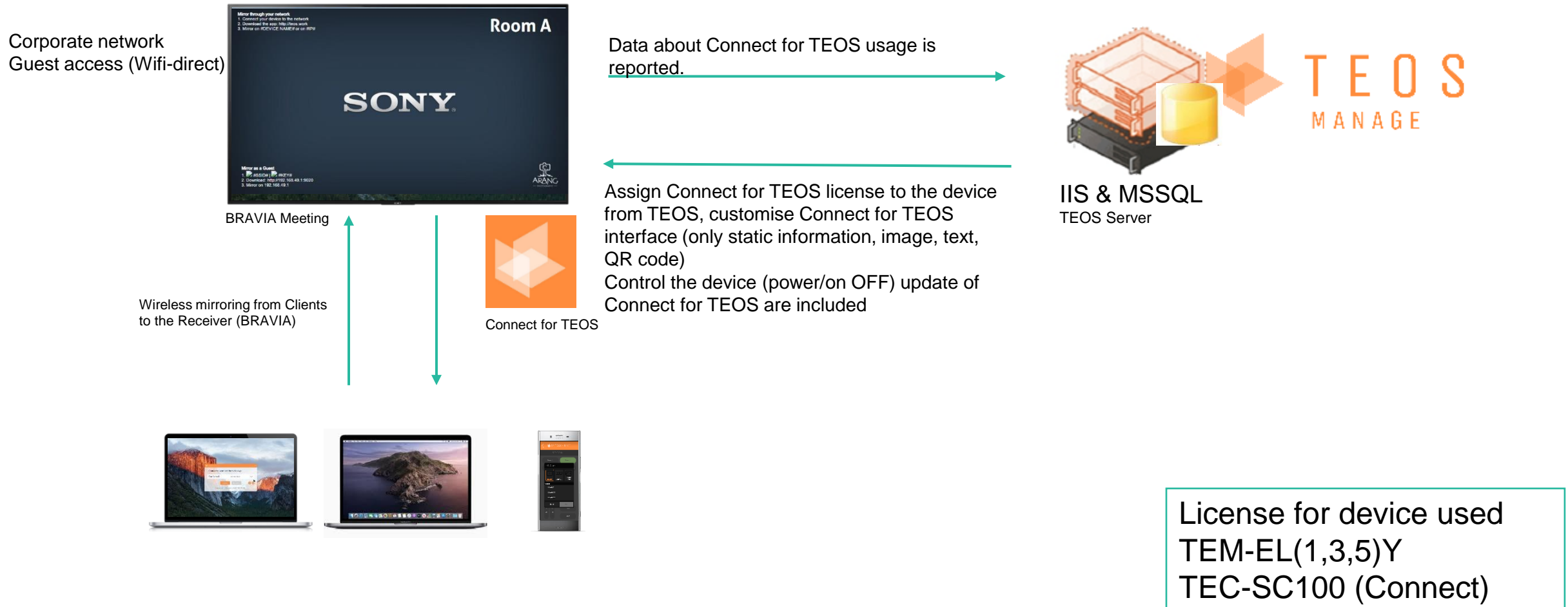
Meeting Display for TEOS – Workflow (1/3)

Meeting Display as been introduced in TEOS Version 2.2 to go beyond into Displays inside a Meeting Rooms. Thanks to TEOS, you will be able to enable screensavers when no meeting are hosted, get a customizable interface to show meeting details, get alarms when meeting is about to end etc.



Connect for TEOS only in BRAVIA– Workflow

Connect for TEOS is a mirroring Tool where you just have to install the app directly inside the BRAVIA (Android) and using a client software you will be able to mirror the desktop of your device (Windows, Mac OS, Android, iOS)

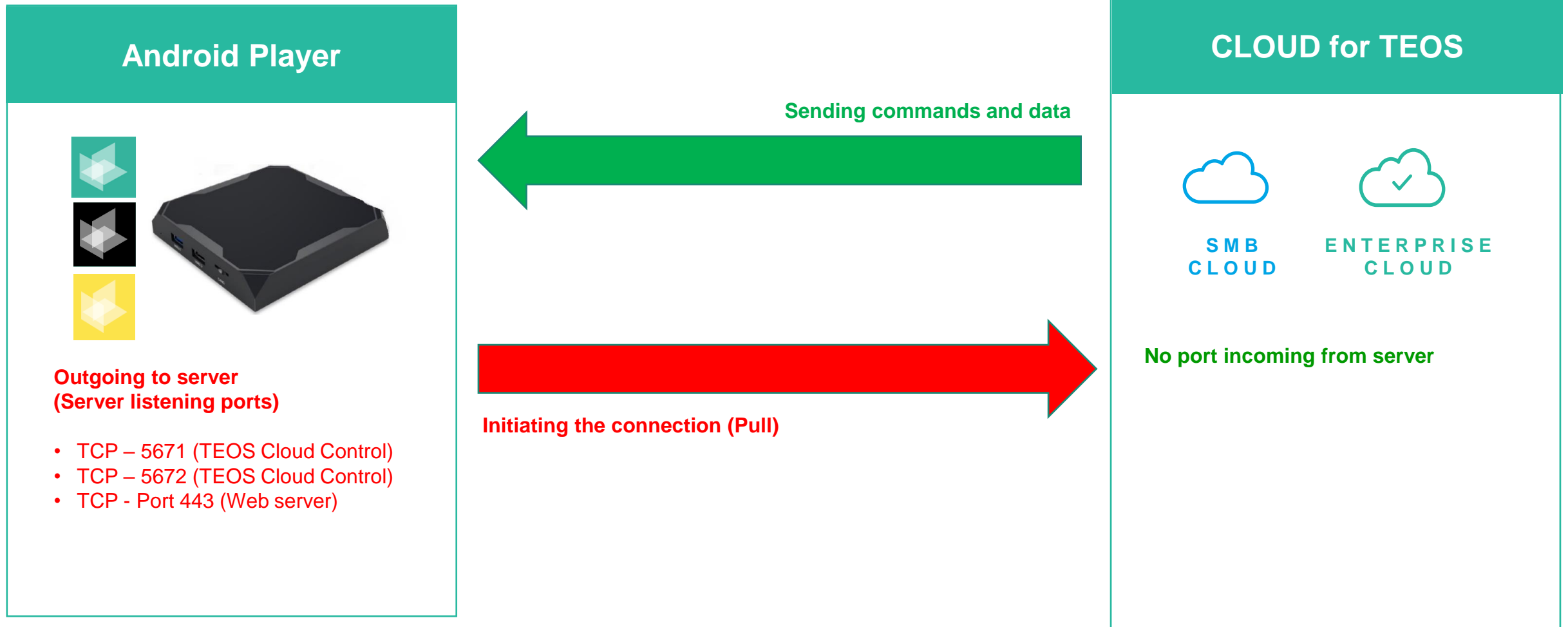


Player for TEOS

Technical workflows



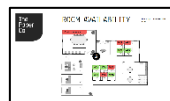
CLOUD > Android Player port communication



**TEOS
compatible
add-ons**



3 SIGNAGE



WAYFINDING



Corporate IPTV



Videowall



CONNECT



Rooms Status



Meeting Display

TEP-X96 Player port communication

TEP-X96 (Android Player)



**Outgoing to server
(Server listening ports)**

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)

Initiating the connection (push)



Sending Status and data

Manage for TEOS Server



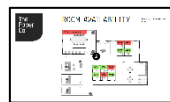
**Incoming from server
(Player listening ports)**

- Type 8 and 0 (icmp ping for autodiscovery)
- TCP – 6541 (TEOS Player Signage app)
- TCP – 5544 (TEOS Control)
- TCP – 5545 (TEOS Control with SSL)
- TCP – 5555 (for maintenance)
- TCP – 9020 (Connect for TEOS License)

**TEOS
compatible
add-ons**



SIGNAGE



WAYFINDING



Corporate IPTV



Videowall



CONNECT



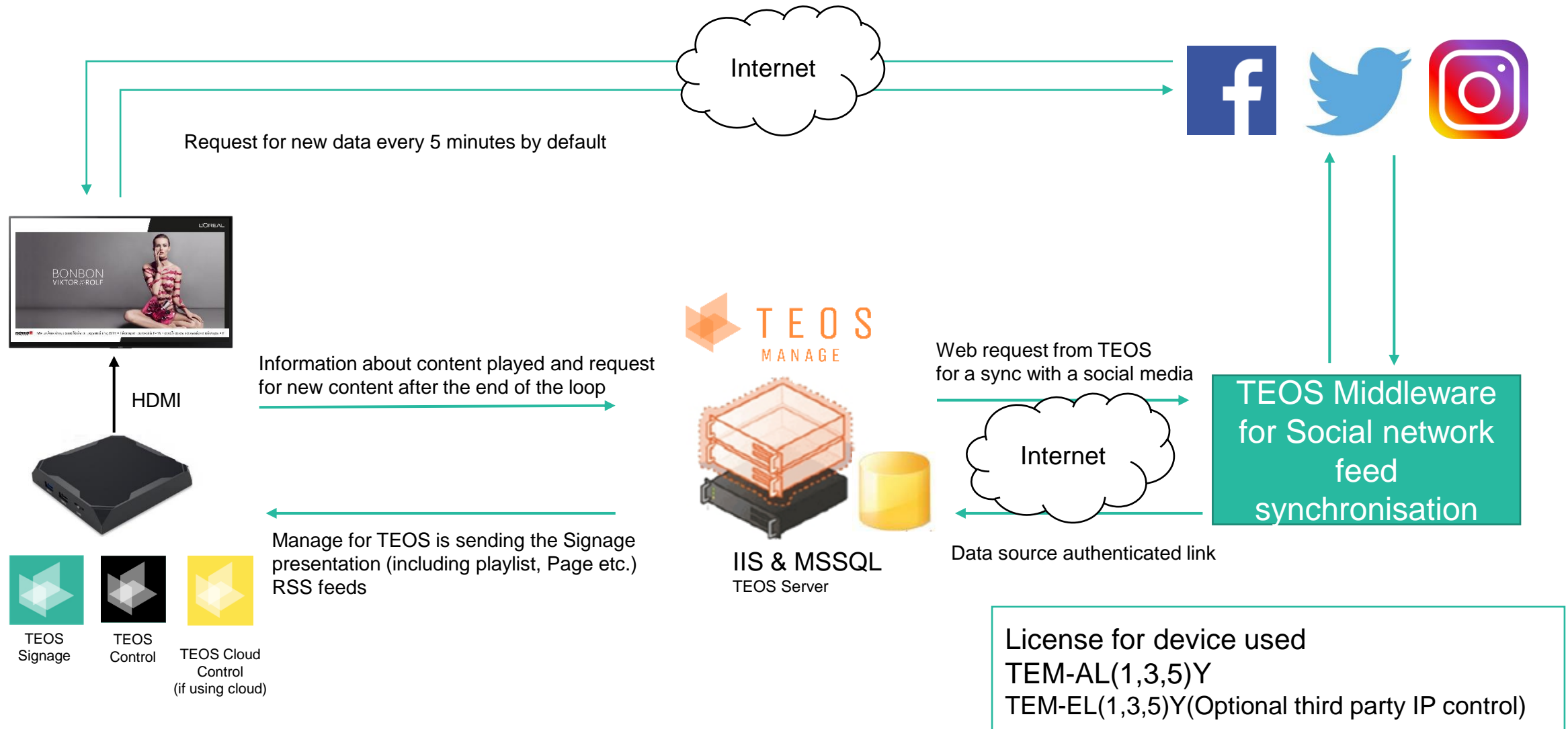
Rooms Status



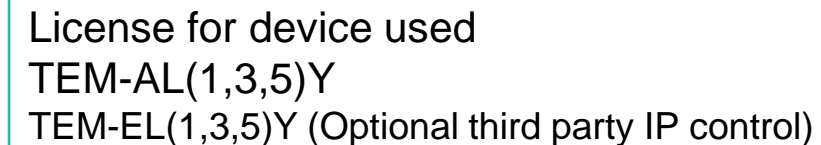
Meeting Display

Signage for TEOS - Workflow Example with RSS feeds

Customizable digital signage allows companies to impress and inform visitors and employees.

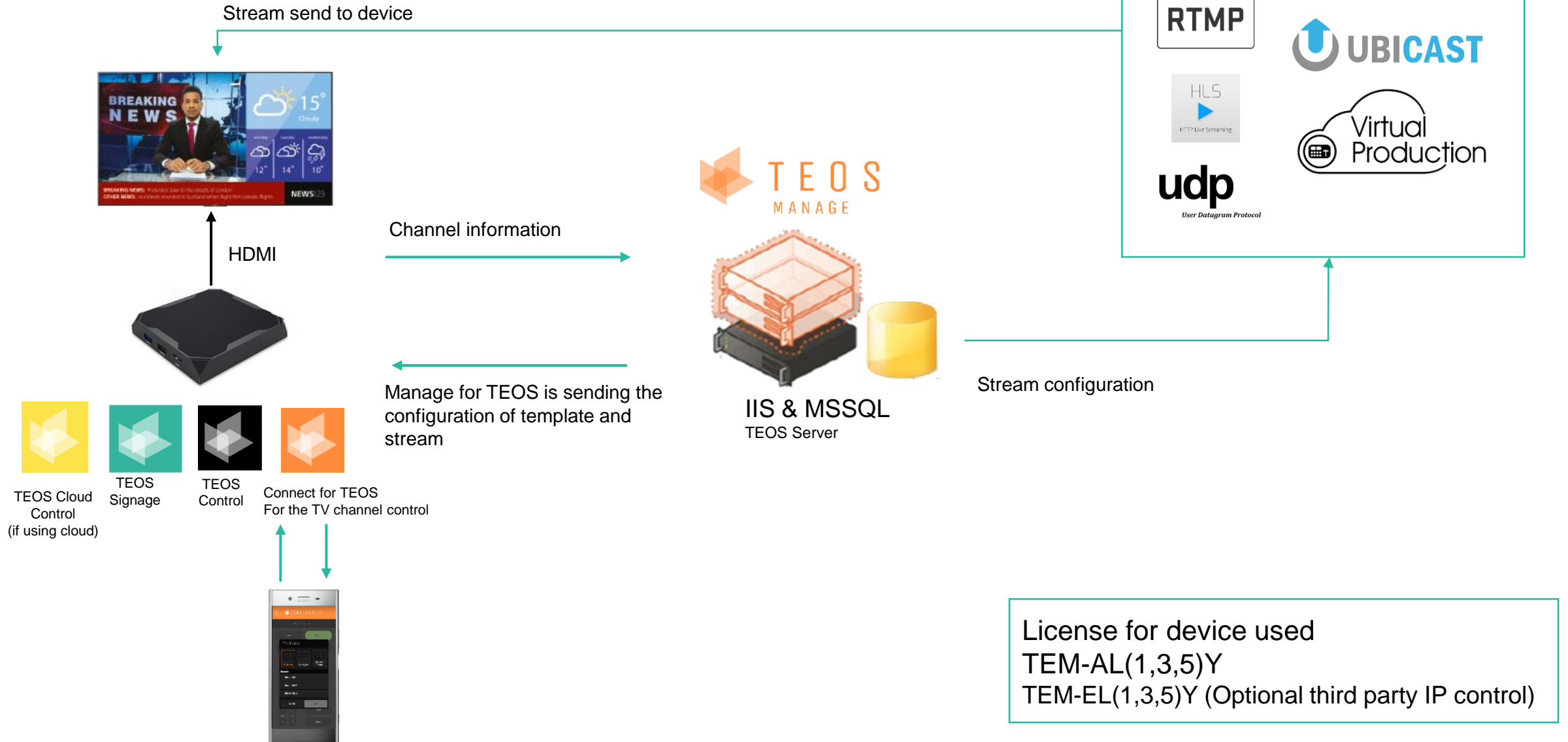


Waze Web frame



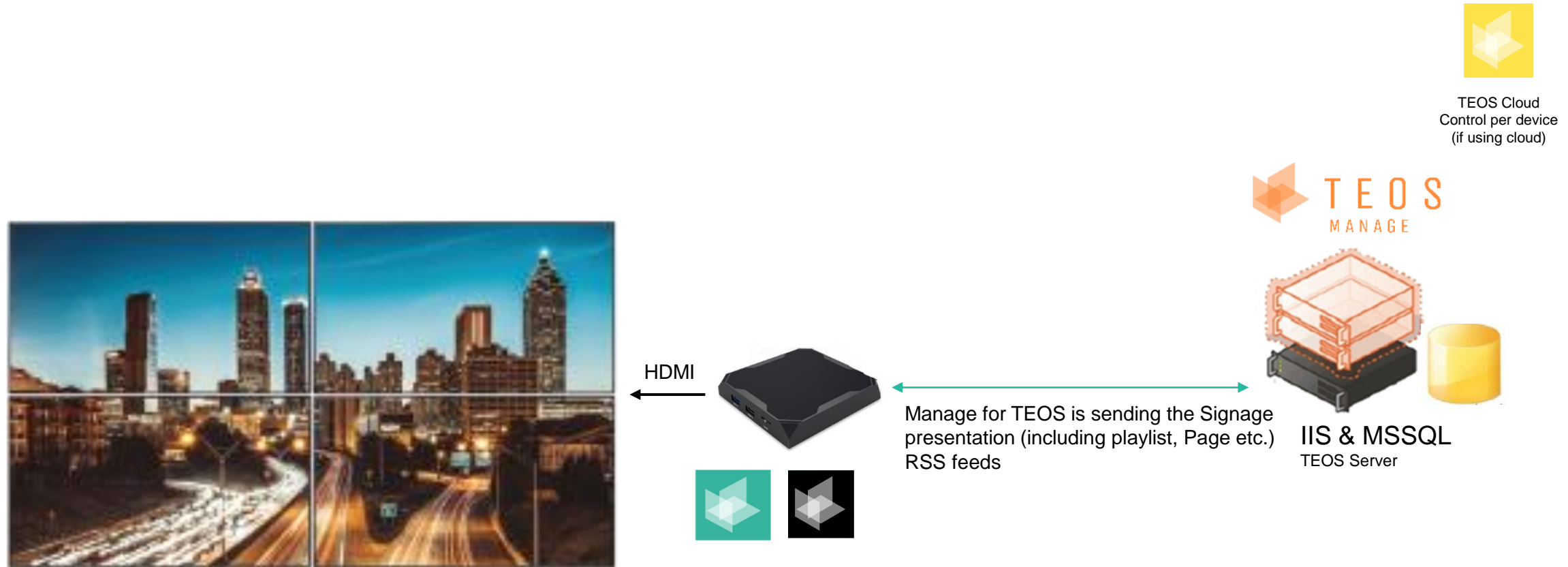
Corporate TV for TEOS - Workflow Example with stream

Stream live TV channels throughout the workplace for employees. Channels can be customized and controlled. TEOS is only configuring the interface of the app and the Signage app can decode different streams



Videowall with Android Player for TEOS - Workflow Example

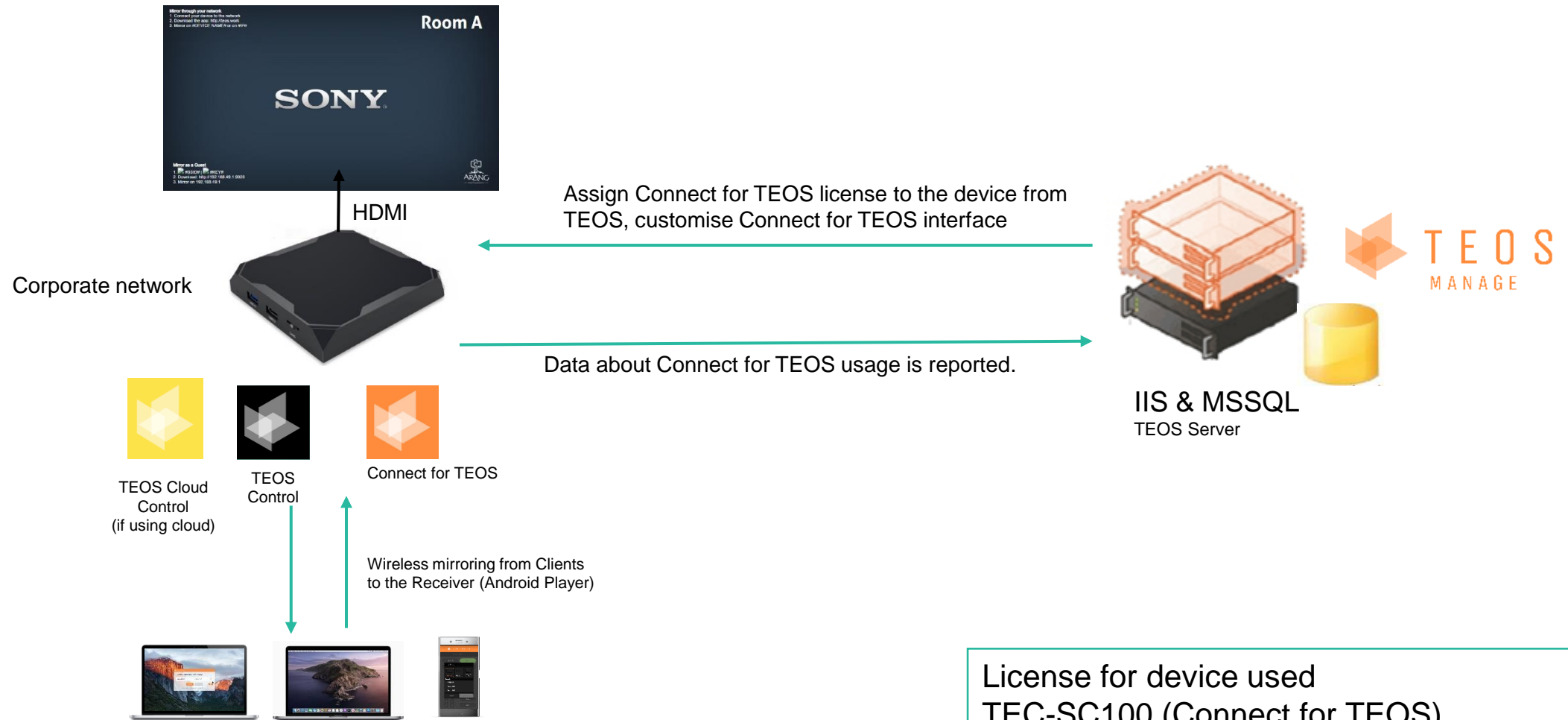
A videowall with TEOS is recommended to be used with third party hardware which can do daisy chain



License for device used
TEM-AL(1,3,5)Y
TEM-EL(1,3,5)Y (Optional third party IP control)

Connect for TEOS Player (TEP-X96) – Workflow

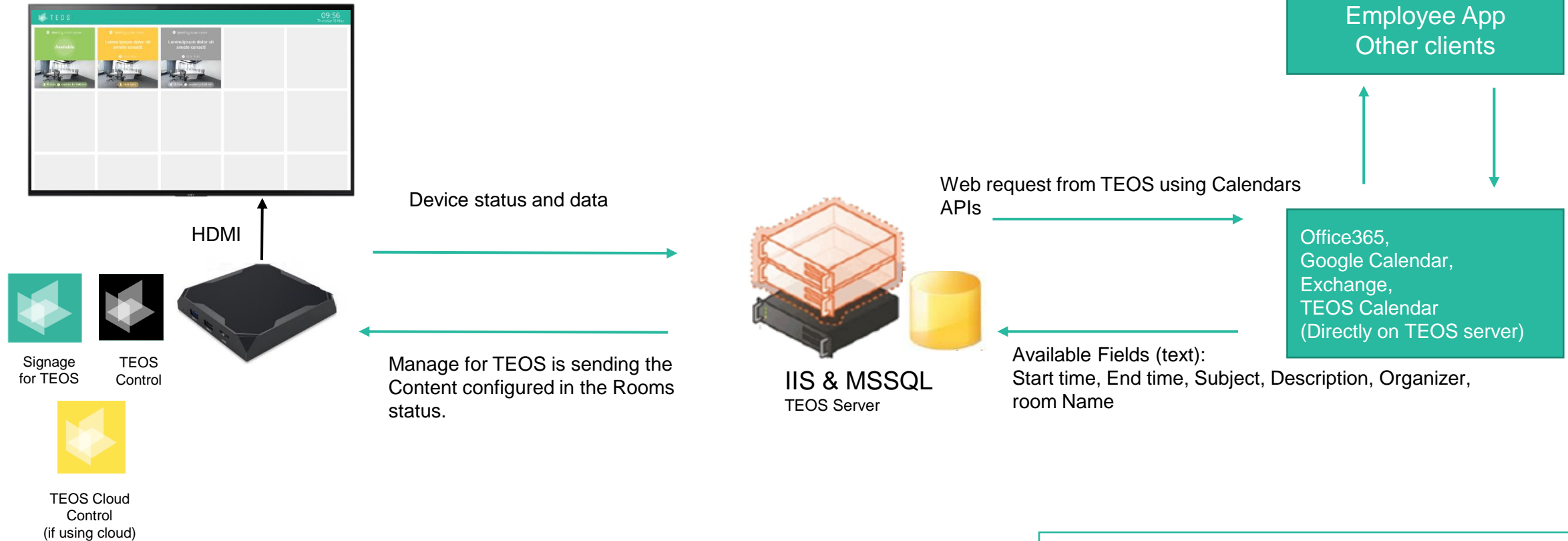
Connect for TEOS is a mirroring Tool where you just have a Receiver apk inside the Android Player and using a client software you will be able to mirror the desktop of your device (Windows, Mac OS, Android, iOS)



License for device used
TEC-SC100 (Connect for TEOS)
TEM-EL(1,3,5)Y (for Player Apps updates)
TEM-EL(1,3,5)Y (optional for third party device IP control)

Rooms Status for TEOS - Workflow

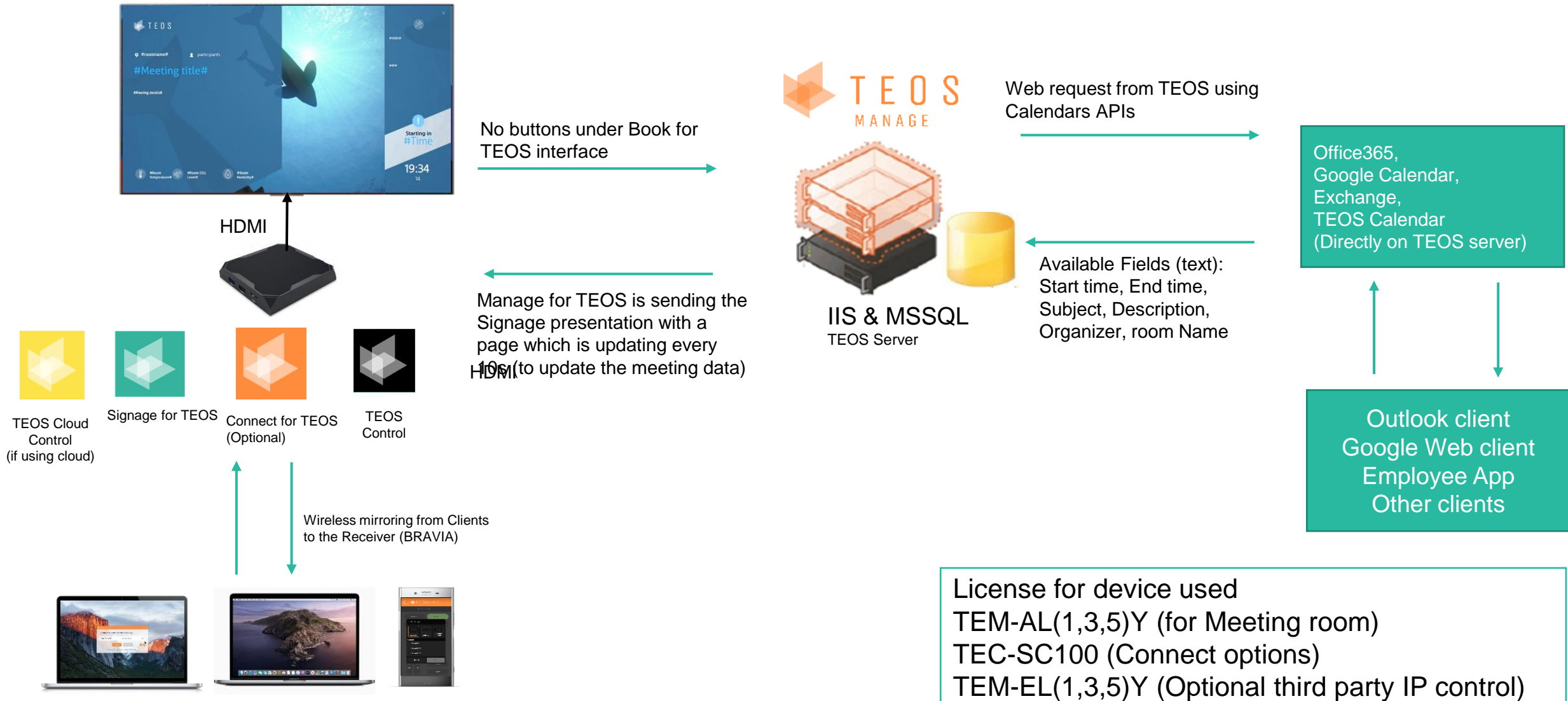
Configuration is very quick, you just have to select the location which includes the meeting rooms. Select the template to show the information and automatically TEOS will map into the interface all the meeting rooms showing room name, availability, picture, seats etc.



License for device used
 TEM-AL(1,3,5)Y
 TEM-EL(1,3,5)Y (Optional third party IP control)

Meeting Display for TEOS with Android Player – Workflow

Meeting Display as been introduced in TEOS Version 2.2 to go beyond into Displays inside a Meeting Rooms. Thanks to TEOS, you will be able to enable screensavers when no meeting are hosted, get a customizable interface to show meeting details, get alarms when meeting is about to end etc.



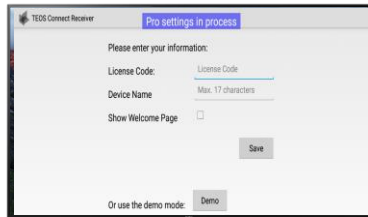
Connect for TEOS

Technical Flows



Connect for TEOS License Registration with TEOS Manage

BRAVIA Android with pro mode or Players for TEOS



Outgoing to Connect for TEOS Receiver
(Listening port of devices for registration)

- TCP - Port 9020

Push the license

Information if license is assigned

TEOS servers



SMB
CLOUD



ENTERPRISE
CLOUD



ENTRPRISE
ON-PREMISE

TEOS Server can push the TEOS Connect license but registration is directly from device to registration server (for the serial number)

- TCP - Port 9020
- TCP – Port 443

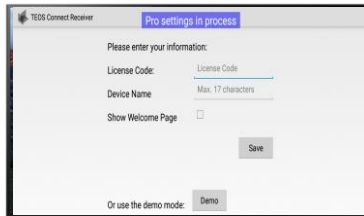
teosmanage.com
registration server

Checking if the license is created and available, getting the device serial number or MAC Address, and register the license

- TCP- 443

Connect for TEOS License Registration in standalone

BRAVIA Android with pro mode or Players for TEOS



**Outgoing to Connect for TEOS Receiver
(Listening port of devices for registration)**

- TCP - Port 9020

Check license availability and push the license

INTERNET
Or Only firewall open
port 9020 and DNS
name teosmanage.com

Information if license is assigned

teosmanage.com registration server

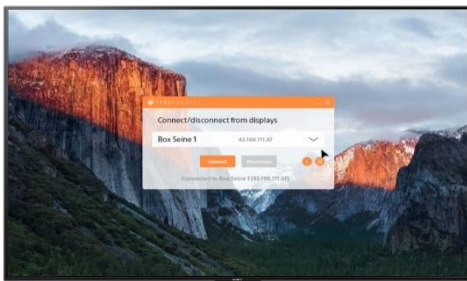


**Checking if the license is created and
available, getting the device serial number or
MAC Address, and register the license**

- TCP - Port 9020

Connect for TEOS on BRAVIA or Player

BRAVIA Android or TEP-X96 for Connect for TEOS

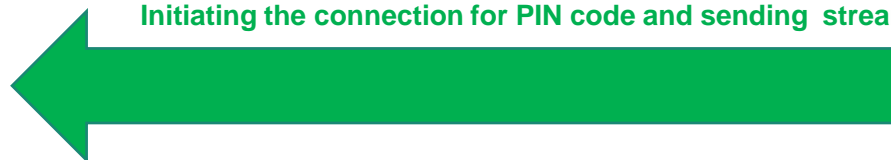


BRAVIA Android models

**Outgoing to Connect for TEOS
client
(Listening ports of devices)**

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)

Initiating the connection for PIN code and sending stream



**Sending PIN Code, Status, apps (web download)
and data**



Windows, MAC, Android, iOS

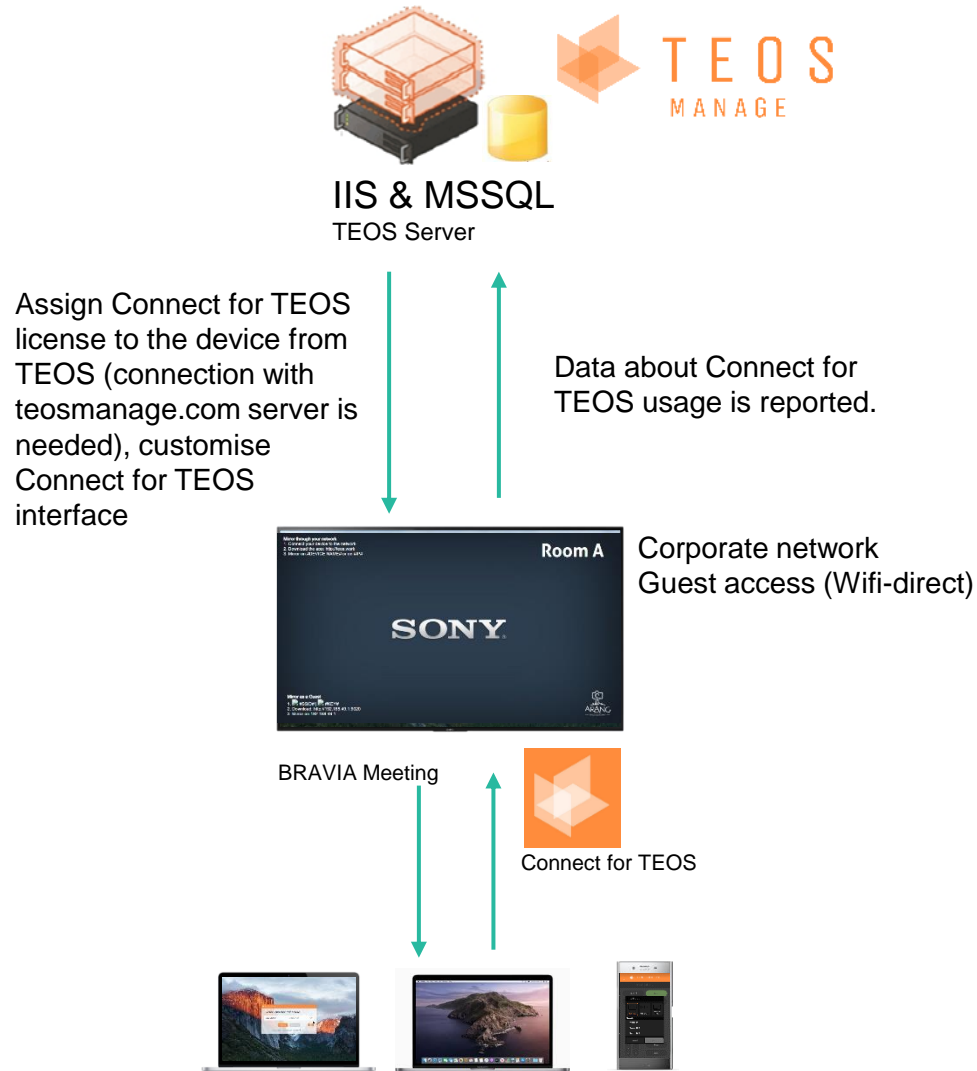


**Outgoing to Bravia from TEOS PC/MAC.. app
(listening ports on BRAVIA and Player)**

- TCP - Port 9001 (Connect for TEOS Video)
- TCP - Port 9002 (Connect for TEOS Audio)
- TCP - Port 9019 (PIN code verification)
- TCP - Port 9020 (Connect web server)
- TCP - 5555 (for maintenance)

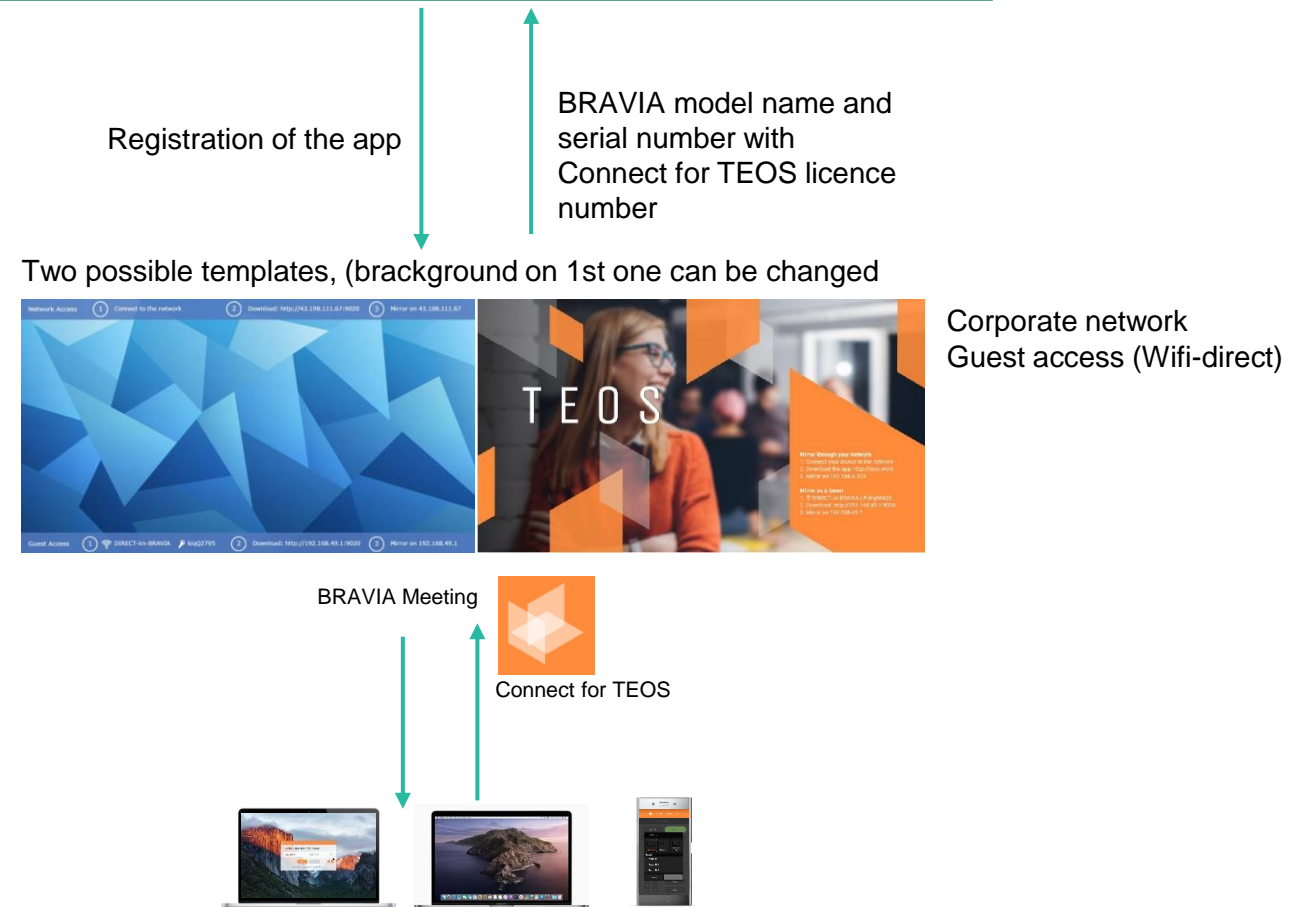
Connect for TEOS BRAVIA– Workflow

With Manage for TEOS Server configuration



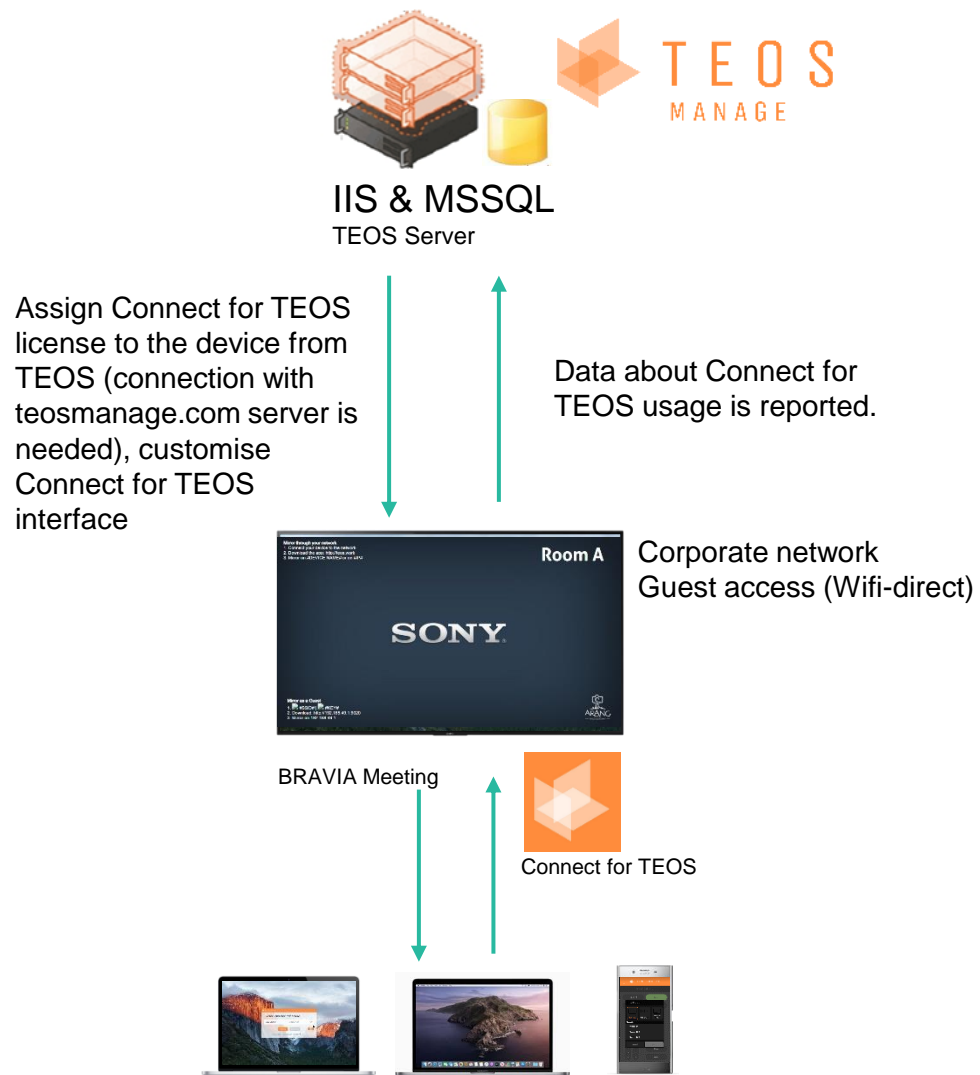
Without Manage for TEOS Server configuration

Teosmanage.com server for the registration of the license inserted in Connect for TEOS App first time



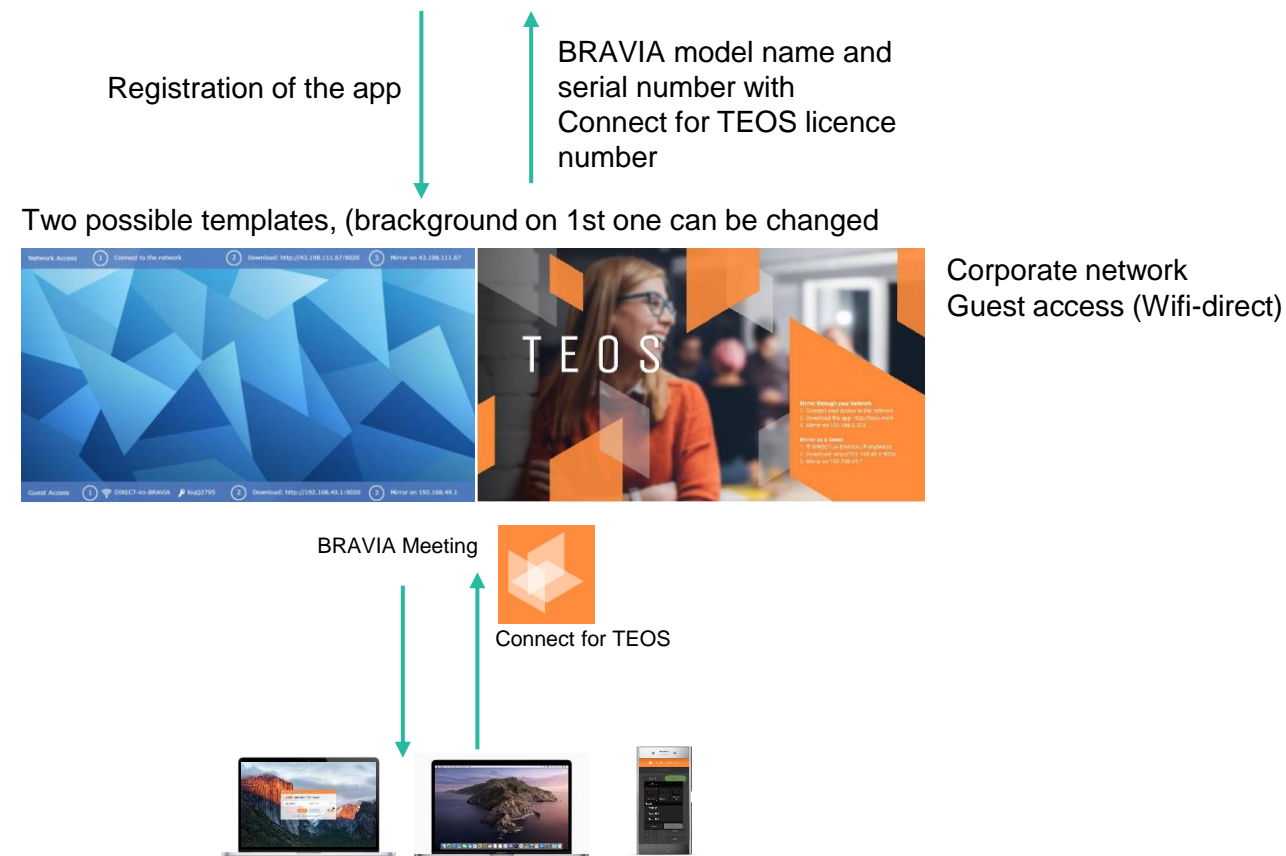
Connect for TEOS BRAVIA– Workflow

With Manage for TEOS Server configuration



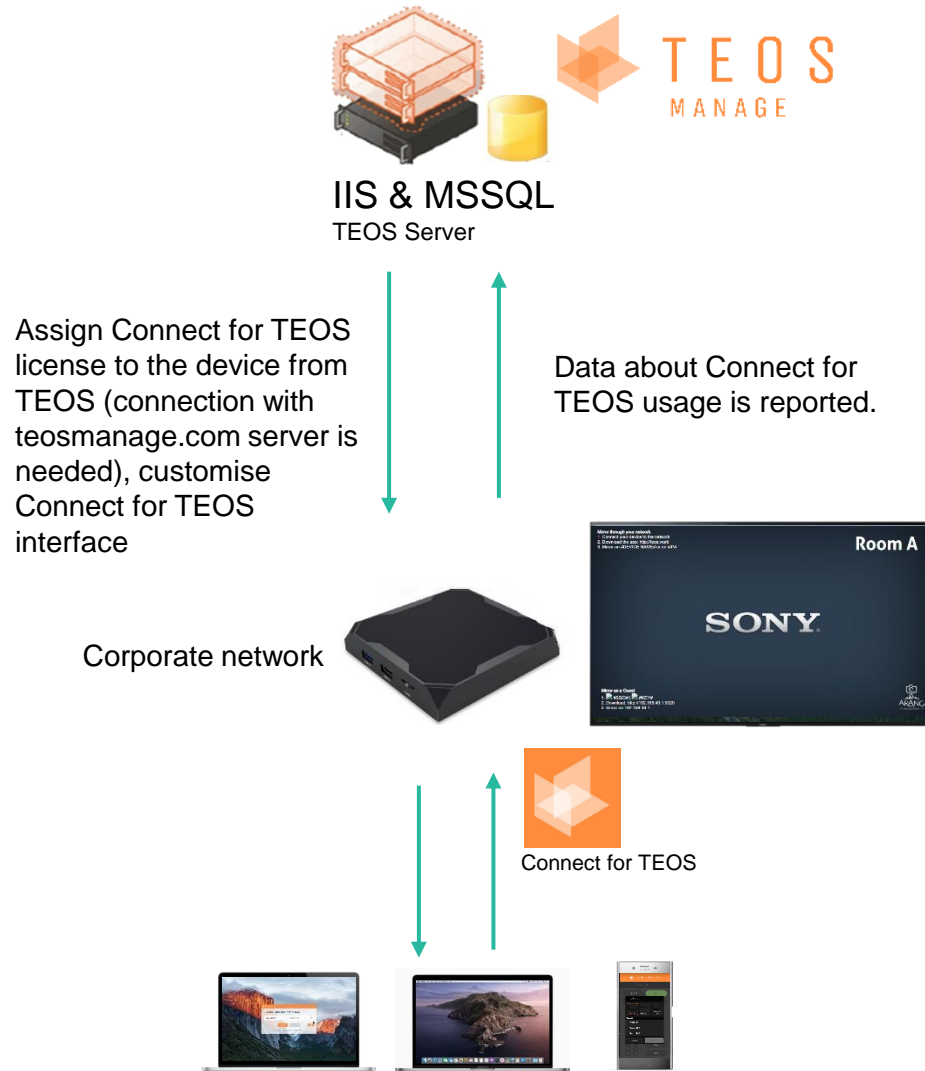
Without Manage for TEOS Server configuration

Teosmanage.com server for the registration of the license inserted in Connect for TEOS App first time



Connect for TEOS Player (TEP-X96) – Workflow

With Manage for TEOS Server configuration

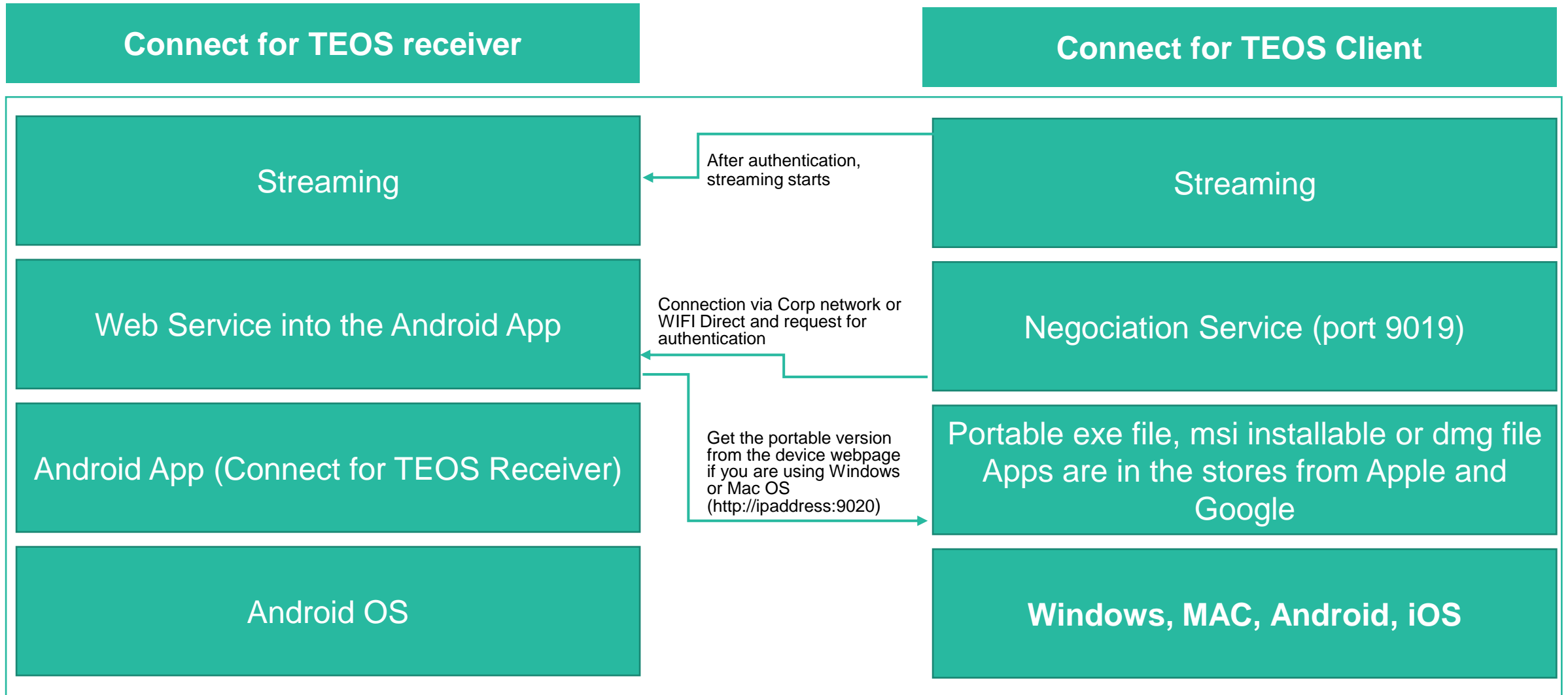


Without Manage for TEOS Server configuration

Teosmanage.com server for the registration of the license inserted in Connect for TEOS App first time



Connect for TEOS Construction with Clients



Tablet for TEOS – Reception

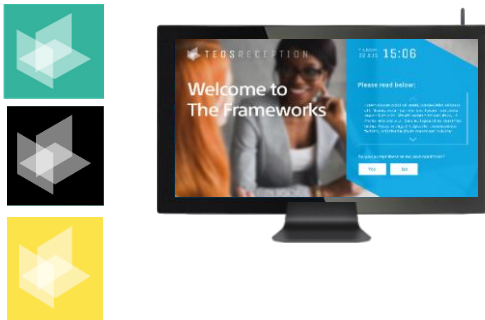
Technical workflows

License for tablet : TEM-AL(1,3,5)Y



CLOUD > Tablets port communication

Tablets (TEB-15XP, TEB-22XP)



Outgoing to server (Server listening ports)

- TCP – 5671 (TEOS Cloud Control)
- TCP – 5672 (TEOS Cloud Control)
- TCP - Port 443 (Web server)

Sending commands and data



Initiating the connection (pull)

Cloud for TEOS



SMB
CLOUD



ENTERPRISE
CLOUD

No port incoming from server

TEOS
compatible
add-ons



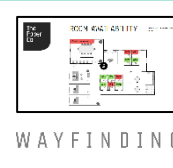
TEOSSIGNAGE



TEOSRECEPTION



TEOSSURVEY



WAYFINDING

Network printer not working in Cloud architecture

ON-PREMISE > Tablets port communication

Tablets (TEB-15XP, TEB-22XP)



Outgoing to server (Server listening ports)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)
- UDP – Port 123 (NTP)

Initiating the connection (push)



Sending Status and data

Manage for TEOS Server



Incoming from server (Tablet listening ports)

- Type 8 and 0 (icmp ping for autodiscovery)
- TCP – 6541 (TEOS Player Signage app)
- TCP – 5544 (TEOS Control)
- TCP – 5545 (TEOS Control with SSL)
- TCP – 5555 (for maintenance)

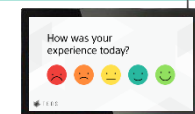
**TEOS
compatible
add-ons**



TEOSSIGNAGE



TEOSRECEPTION

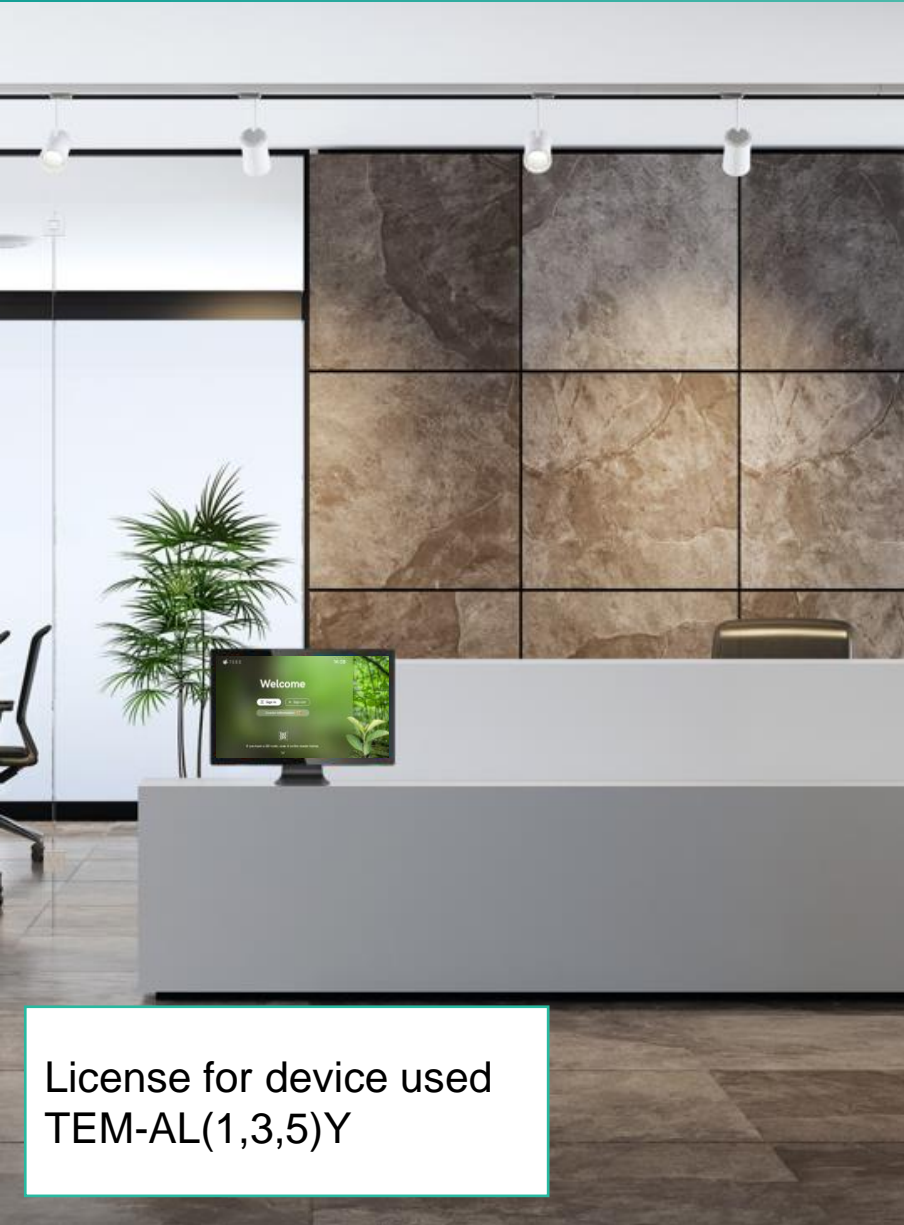


TEOSSURVEY



WAYFINDING

Reception for TEOS workflows



License for device used
TEM-AL(1,3,5)Y

WORKFLOW 1 (SECURED)

PIN Code registration method,
sent by the employee to visitor



Workflow requires the employee to send by mail an invitation (using a reception email address) where the visitor will receive a 4-digit pin code and/or a QR Code to authenticate when arriving in employee building. A notification (mail/SMS) will be sent directly to the employee. And the record of the sign-in will be added into TEOS Analytics

Mail, SMS (Spryng) and Certificate (https mandatory) for the integration of Reception add-in are provided by the customer

WORKFLOW 2 (SEARCH)

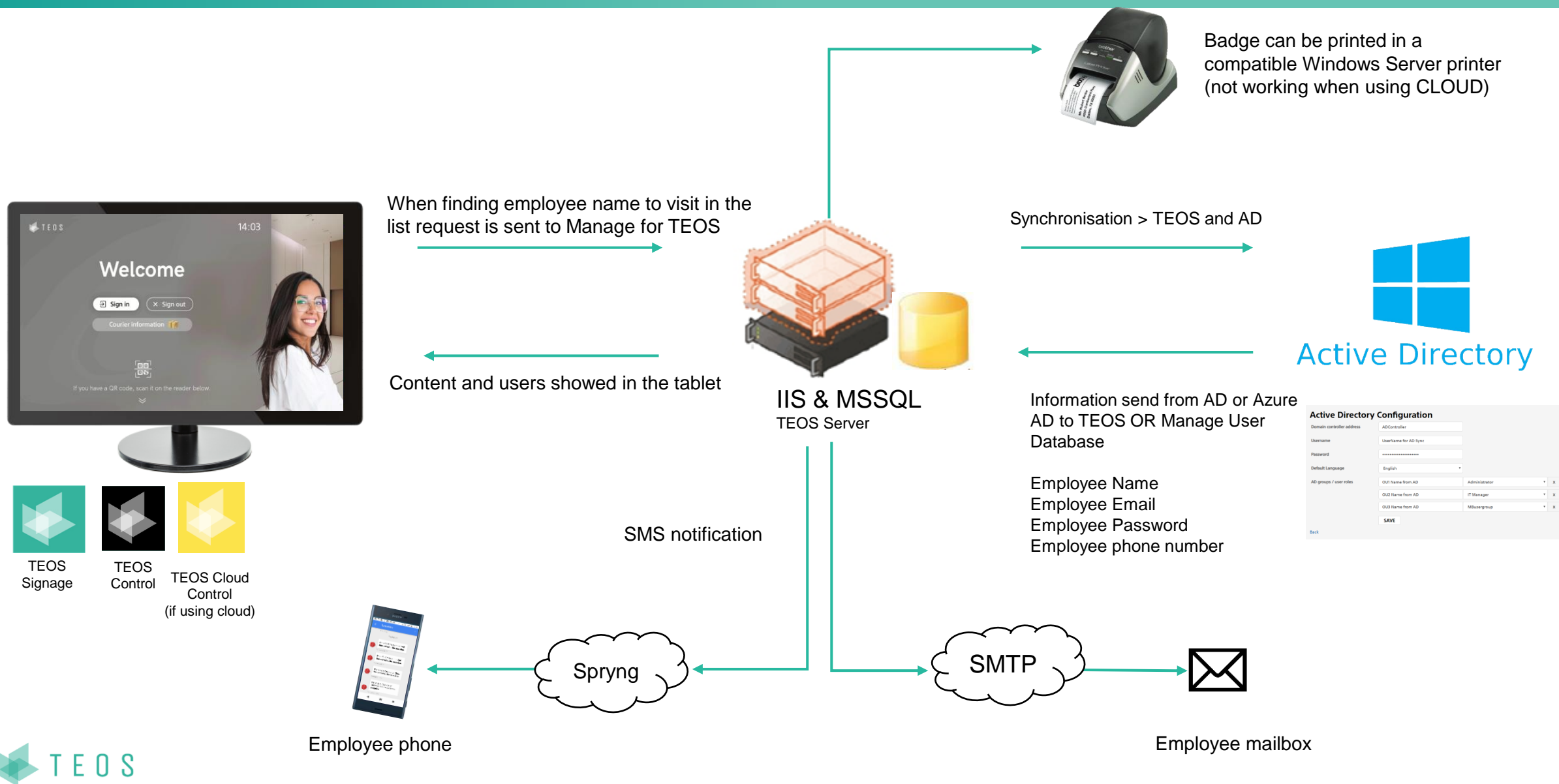
Register and Search for Employee



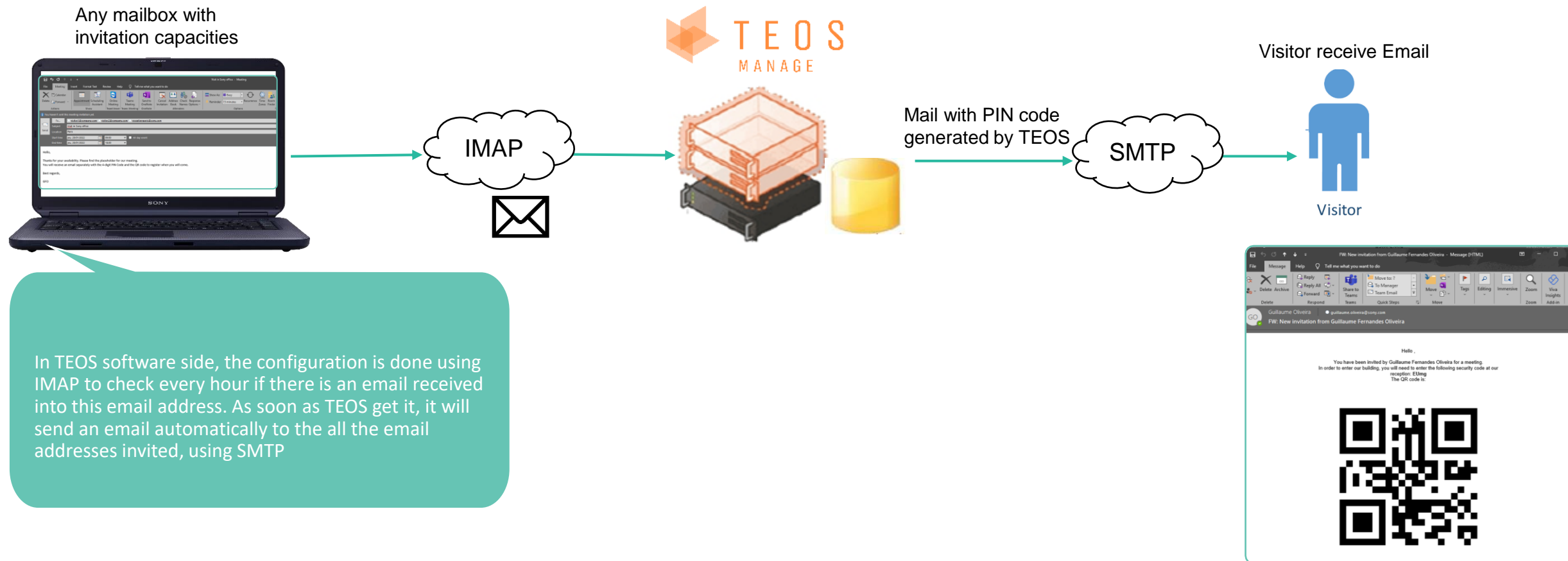
Simplified option where the visitor with an appointment is directly in front of the tablet interface. Just registering his name and search for the employee he is visiting.

If the visitor has no appointment, then TEOS will send a notification to the reception person (default email or phone number configured in TEOS).

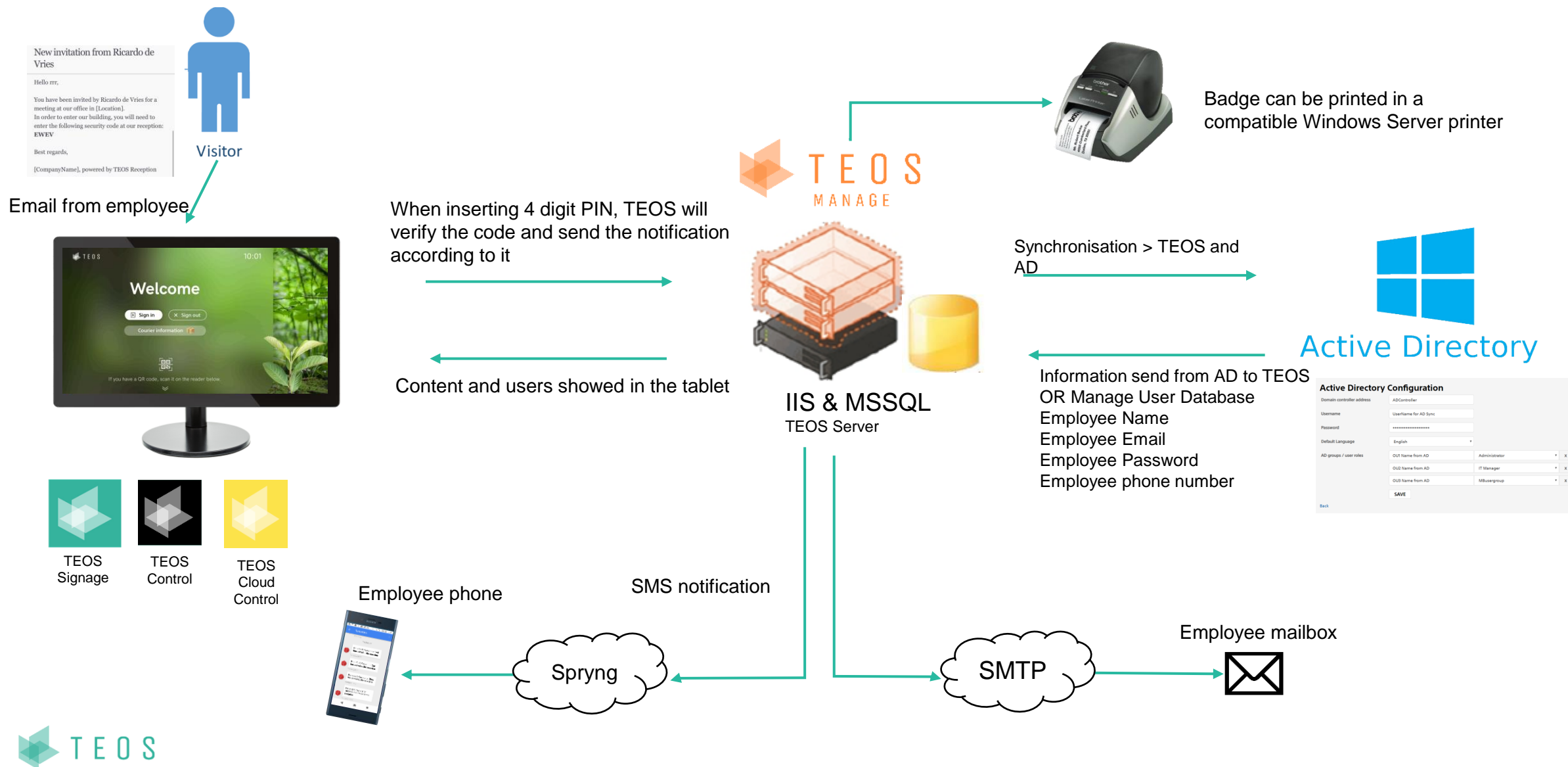
Workflow 1 – Search for an employee



Workflow 2 – 4 Employee sending invitation to visitor



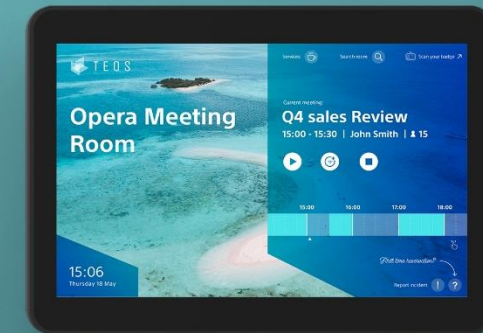
Workflow 2 – Visitor using 4 digit PIN code



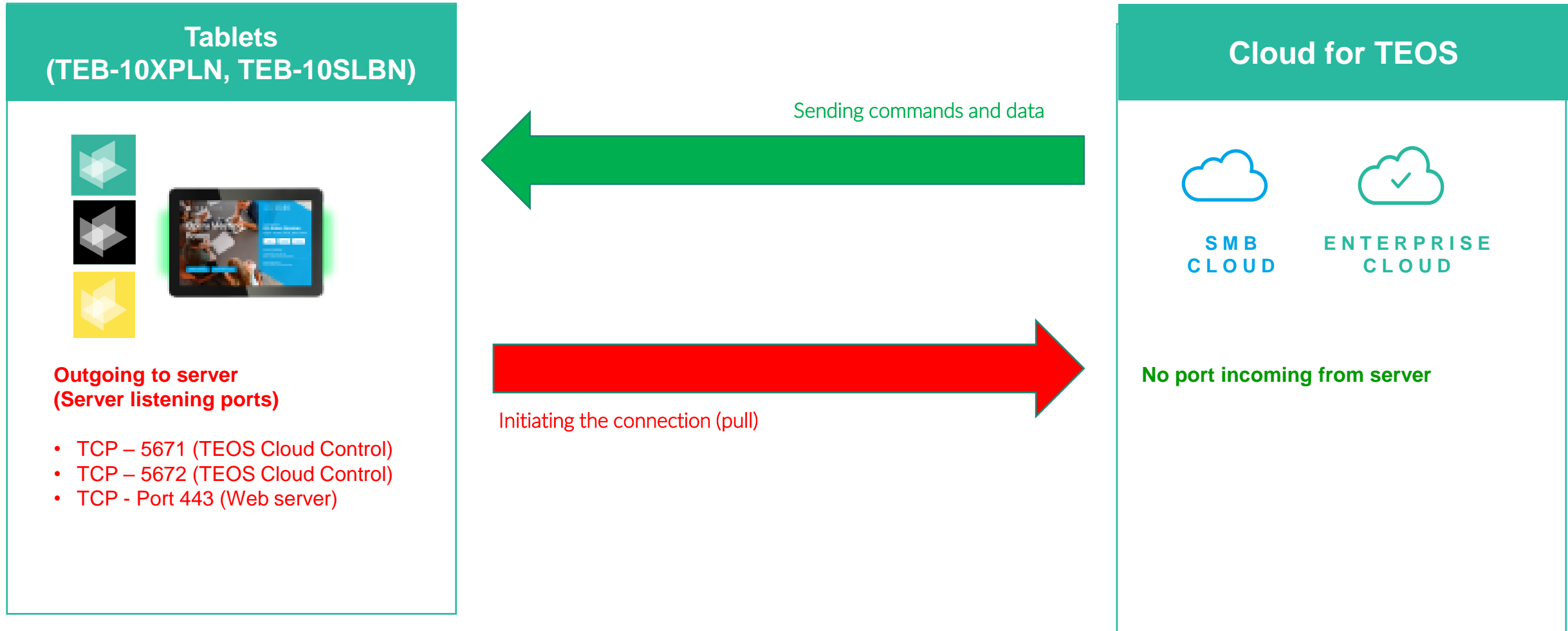
Technical workflows

License for tablet : TEM-AL(1,3,5)Y

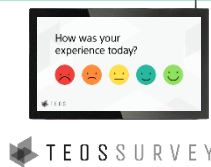
Tablet for TEOS – Room booking



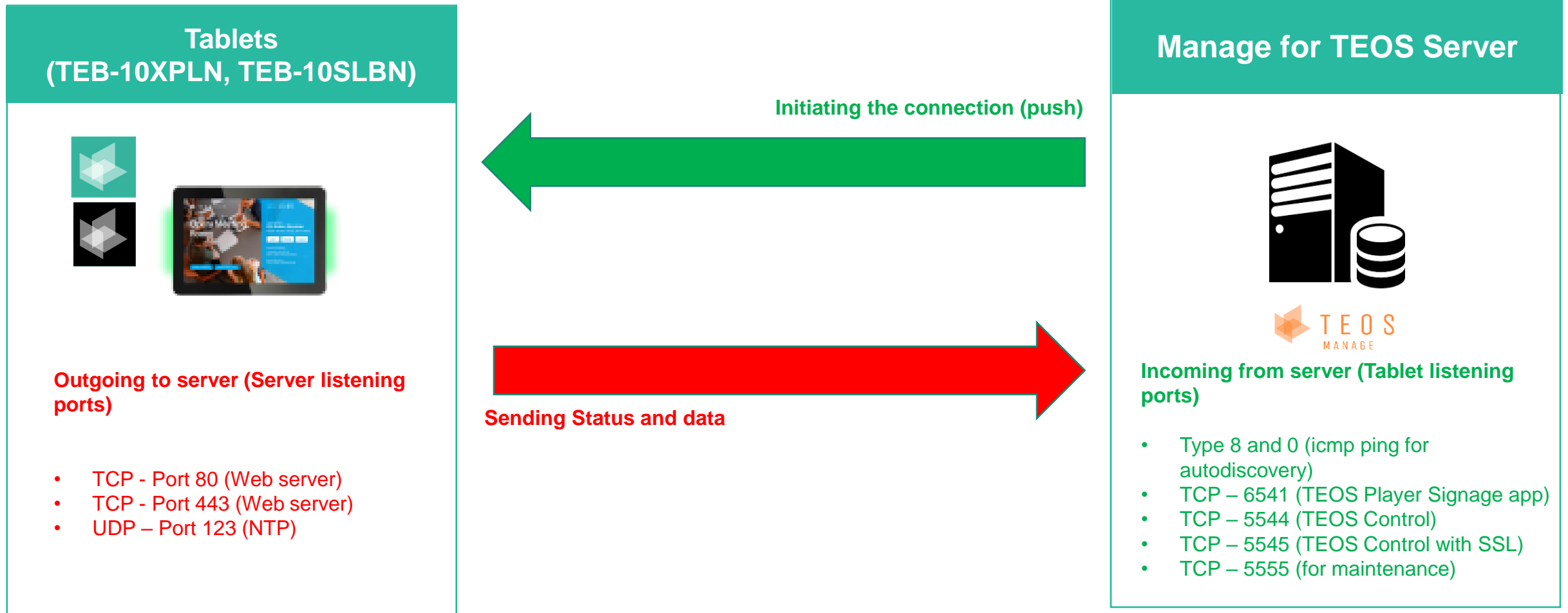
CLOUD > Tablets port communication



TEOS
compatible
add-ons



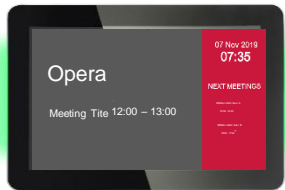
ON-PREMISE > Tablets port communication



Multiple room booking features



Room Viewing



Just show the information coming from the different calendar platforms. Leds are controlled as well and shows directly the status of the booking

Room Booking adhoc



Book the meeting room instantaneously for the time you need with a button in the tablet, extend and check-in are also available. You can also find another if the room is already used.

Room Booking timeline



Book the meeting room based on a timeslot from the timeline you need with a button in the tablet, extend and check-in are also available. You can also find another if the room is already used

Room Booking in Portrait



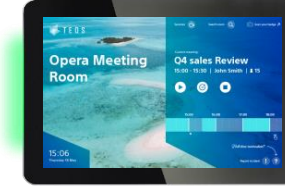
Designed when there is physical installation constraints, the tablet can be placed in vertical mode and booking solution can show template in portrait mode. Thanks to TEOS

Dual Booking



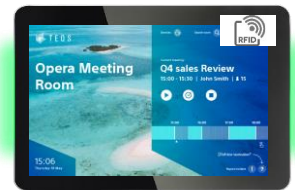
Designed when there is physical installation constraints, the dual booking solution can host two rooms informations and allows interaction for each room (book adhoc, start meeting, extend, check-out)

Tablet with user name verification



An option inside TEOS can request user to input/search for his name which is verified in TEOS database or using Active directory (if it is used). This is not a real authentication as any name that are part of the database can be used

Tablet with RFID reader

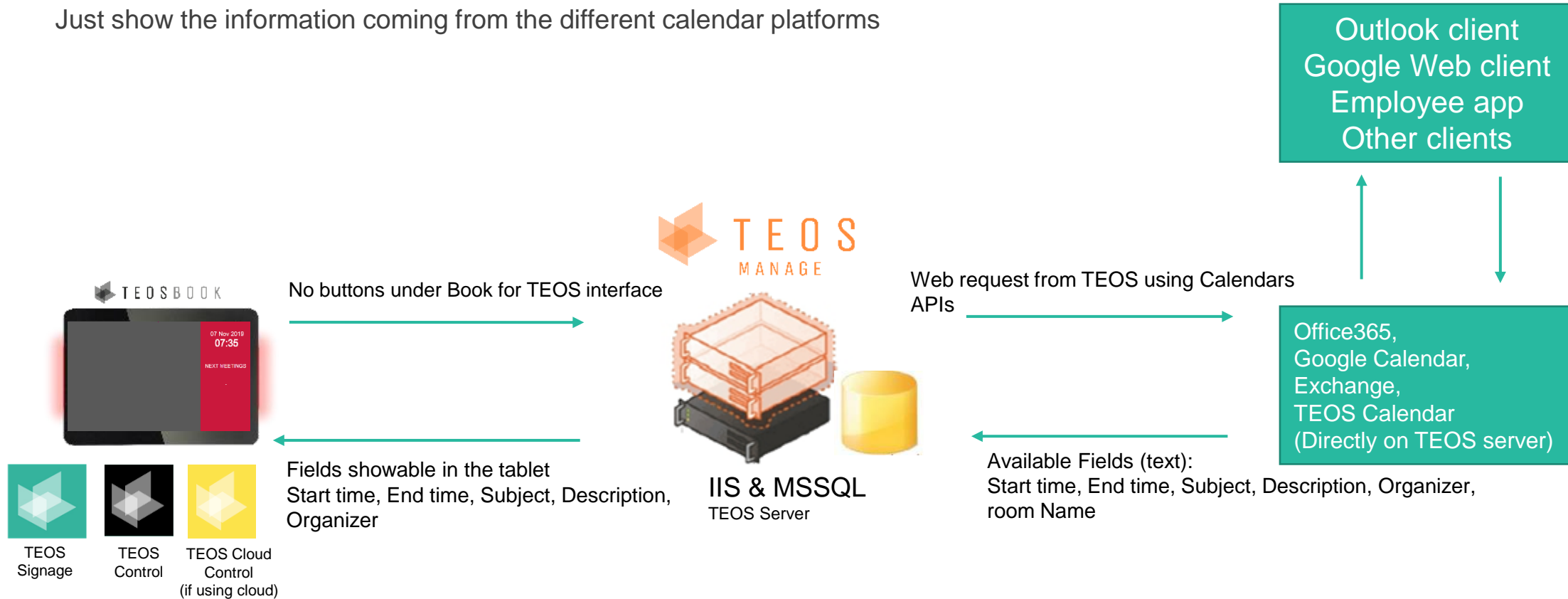


Integrate the RFID reader with tablets for identification to check in and book meetings. A swipe of an NFC tag or card is processed instantly.

Only for Exchange/Office365/Google Calendar

Book for TEOS - Workflow with room viewing

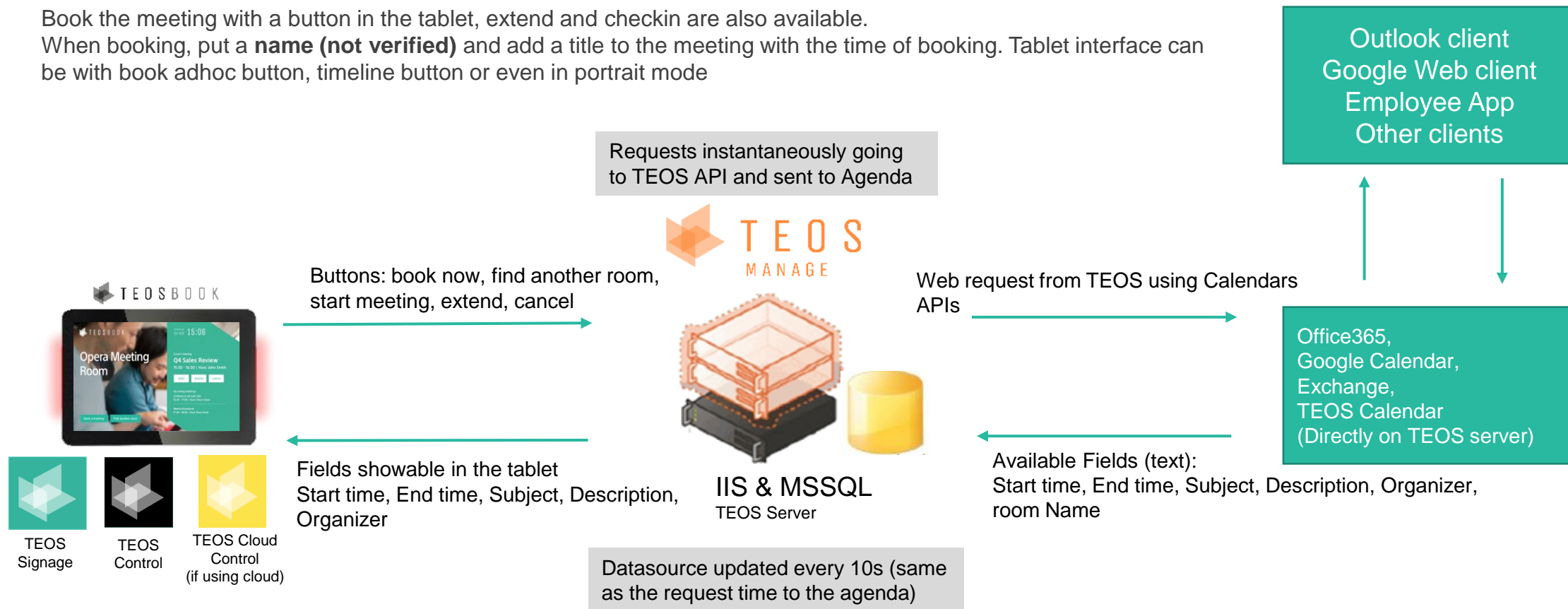
Just show the information coming from the different calendar platforms



Book for TEOS - Workflow with room booking

Book the meeting with a button in the tablet, extend and checkin are also available.

When booking, put a **name (not verified)** and add a title to the meeting with the time of booking. Tablet interface can be with book adhoc button, timeline button or even in portrait mode

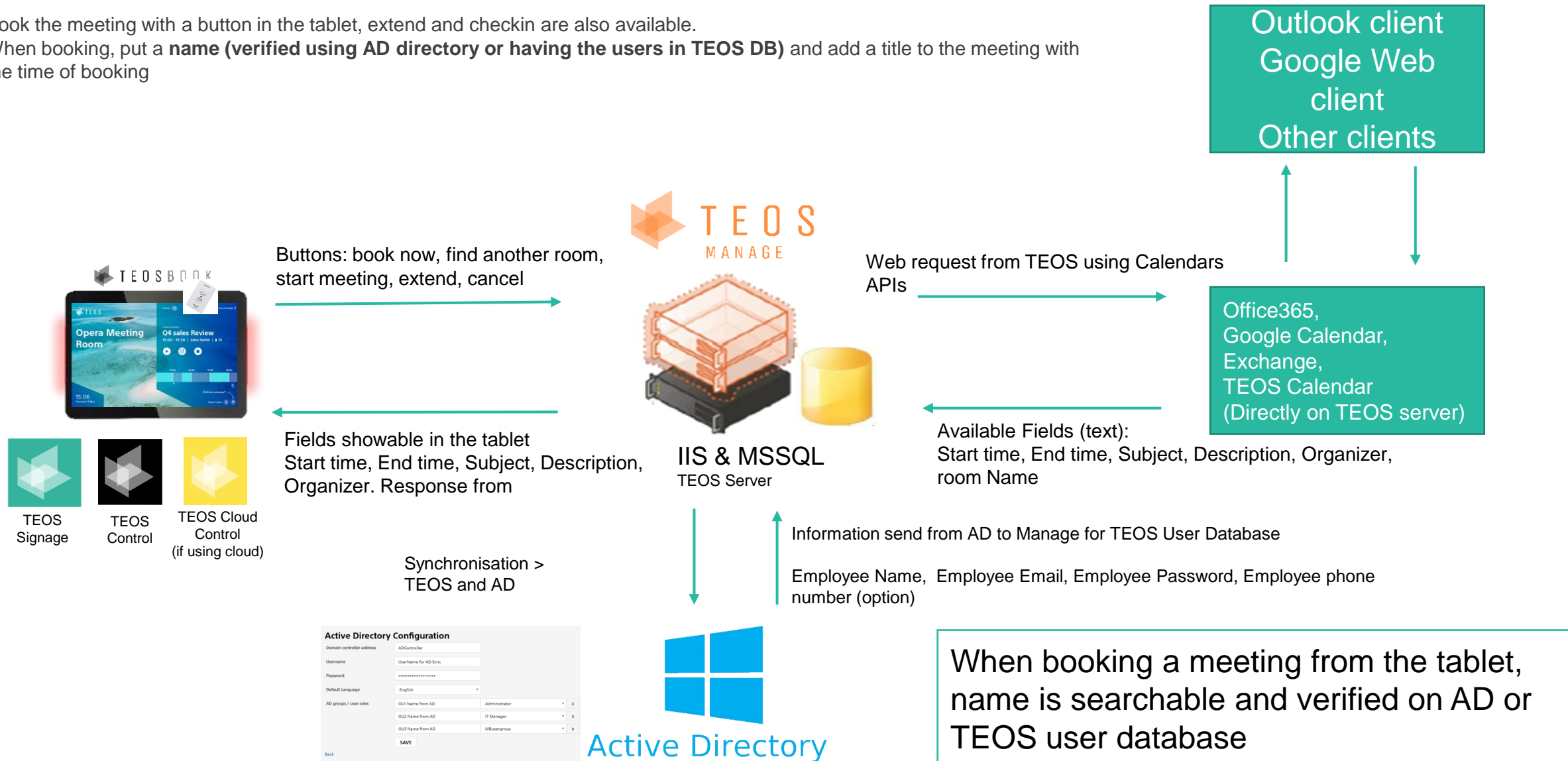


When booking a meeting from the tablet any name for the booking can be insert

Book for TEOS - Workflow with room booking and checking

Book the meeting with a button in the tablet, extend and checkin are also available.

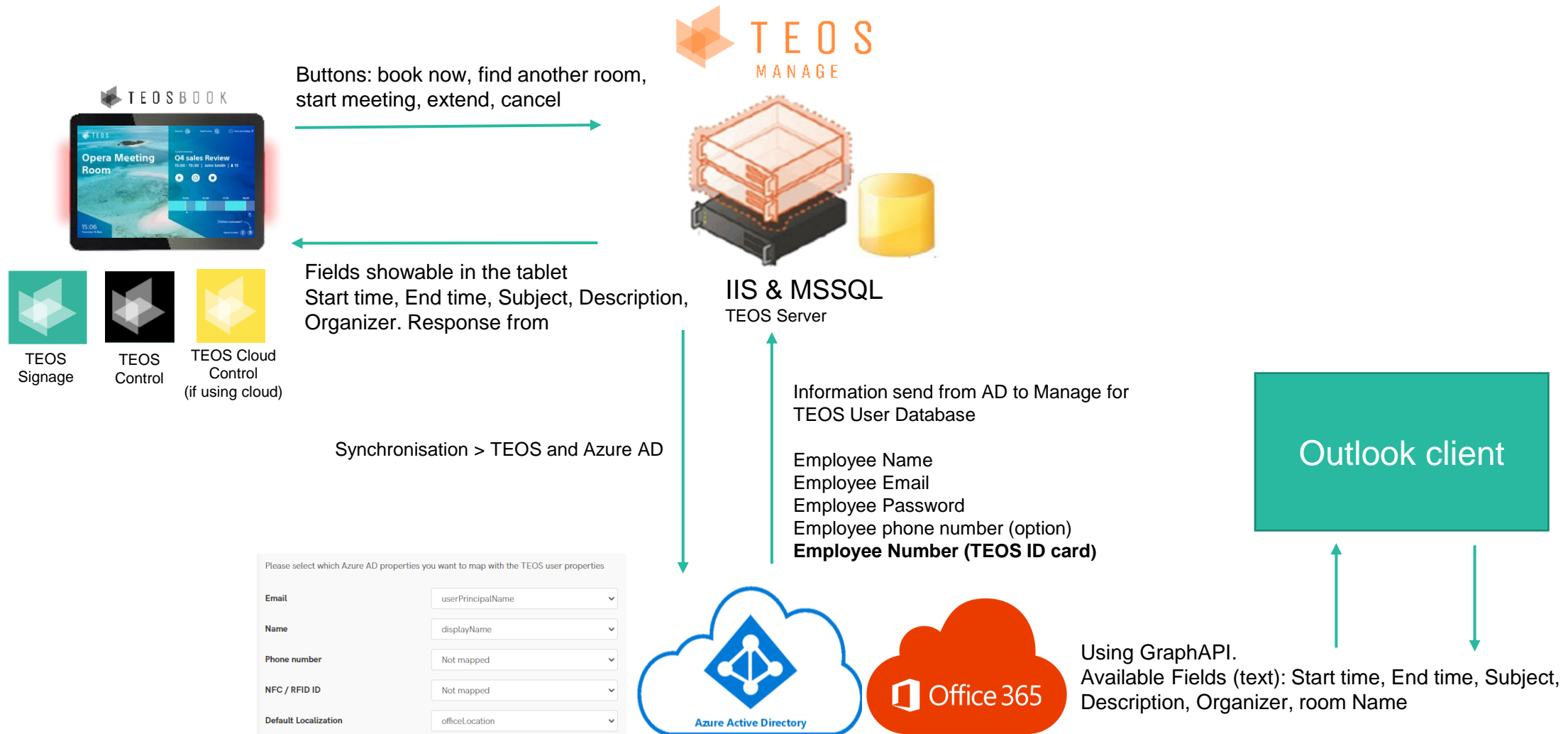
When booking, put a **name (verified using AD directory or having the users in TEOS DB)** and add a title to the meeting with the time of booking



Book for TEOS - Workflow with room booking and checking

Book the meeting with a button in the tablet, extend and checkin are also available.

When booking, put a **name (verified using AD directory or having the users in TEOS DB)** and add a title to the meeting with the time of booking



Technical workflows

Tablet for TEOS – Desk booking



CLOUD > Tablets port communication

Tablets (TD-0350)



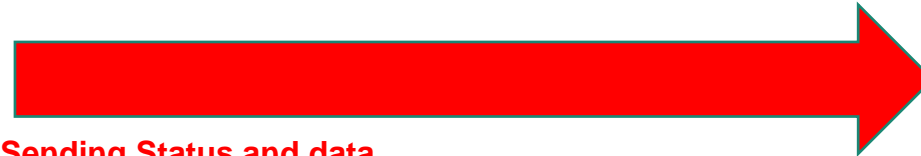
Outgoing to server (Server listening ports)

- TCP – 5671 (TEOS Cloud Control)
- TCP – 5672 (TEOS Cloud Control)
- TCP - Port 443 (Web server)

Initiating the connection (push)



Sending Status and data



Manage for TEOS Server



SMB
CLOUD



ENTERPRISE
CLOUD

outgoing to server
(tablet listening ports)

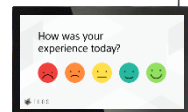
TEOS
compatible
add-ons



TEOSSIGNAGE



TEOSBOOK



TEOSSURVEY

ON-PREMISE > Tablets port communication

Tablets (TD-0350)



**Outgoing to server
(Server listening ports)**

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)
- UDP – Port 123 (NTP)

Initiating the connection (push)



Sending Status and data



Manage for TEOS Server







**Incoming from server
(Tablet listening ports)**

- Type 8 and 0 (icmp ping for autodiscovery)
- TCP – 6541 (TEOS Player Signage app)
- TCP – 5544 (TEOS Control)
- TCP – 5545 (TEOS Control with SSL)
- TCP – 5555 (for maintenance)

**TEOS
compatible
add-ons**



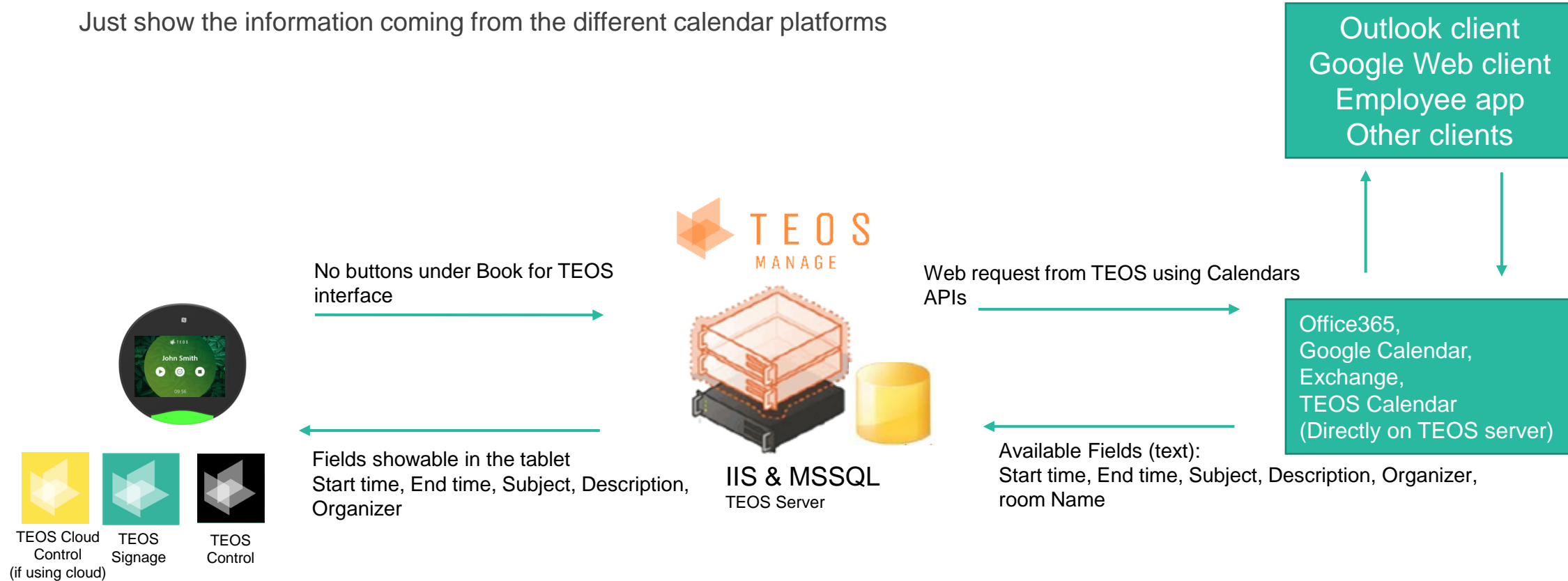
Desk Booking with TEOS (O365, Exchange, Google Calendar and TEOS Calendar)

Desk Viewing	Desk Booking without authentication	Tablet with AD verification	Tablet with RFID reader
			
Just show the information coming from the different calendar platforms, change the led of the tablet in the desk	Book the meeting with a button in the tablet, extend and checkin are also available. When booking, put a name (not verified) and add a title to the meeting with the time of booking	Book the meeting with a button in the tablet, extend and checkin are also available. When booking, put a name (verified using AD directory or having the users in TEOS DB) and add a title to the meeting with the time of booking	Integrate the RFID reader with tablets for identification to check in and book meetings. A swipe of an NFC tag or card is processed instantly. Processes are defined below

License for device used
TEM-AL(1,3,5)Y

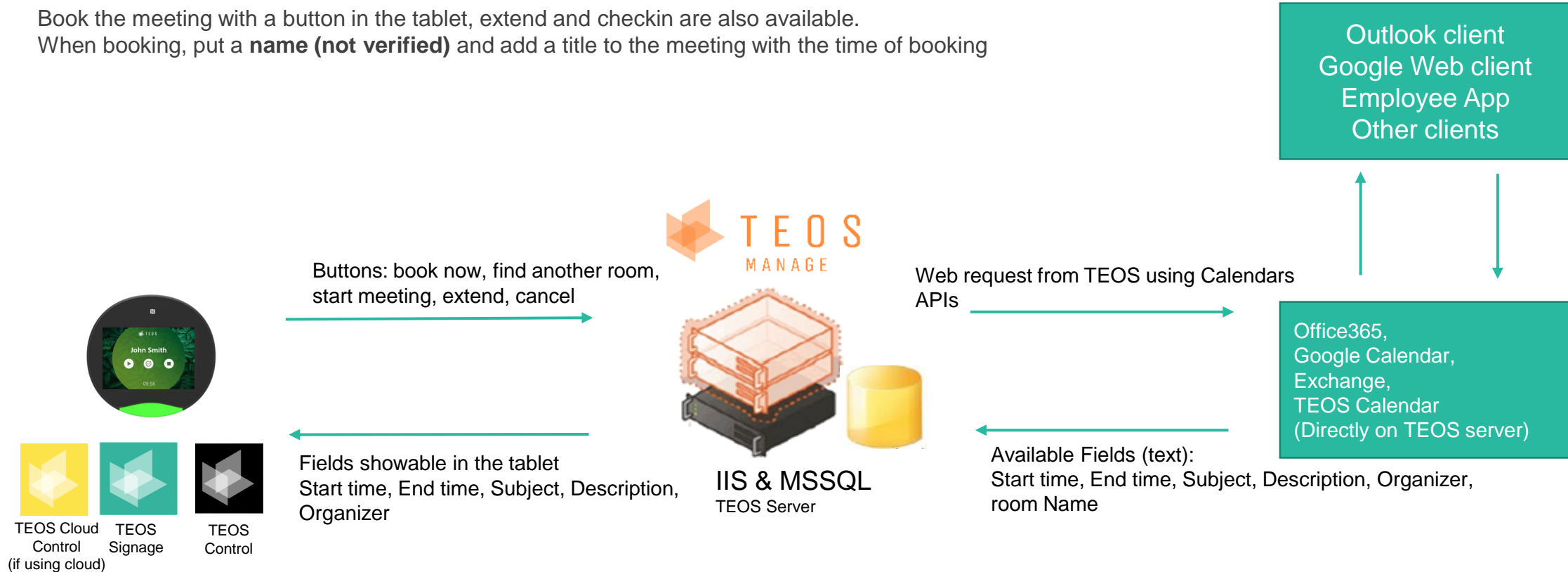
Desk booking for TEOS - Workflow with desk viewing

Just show the information coming from the different calendar platforms



Workflow with desk booking

Book the meeting with a button in the tablet, extend and checkin are also available.
When booking, put a **name (not verified)** and add a title to the meeting with the time of booking

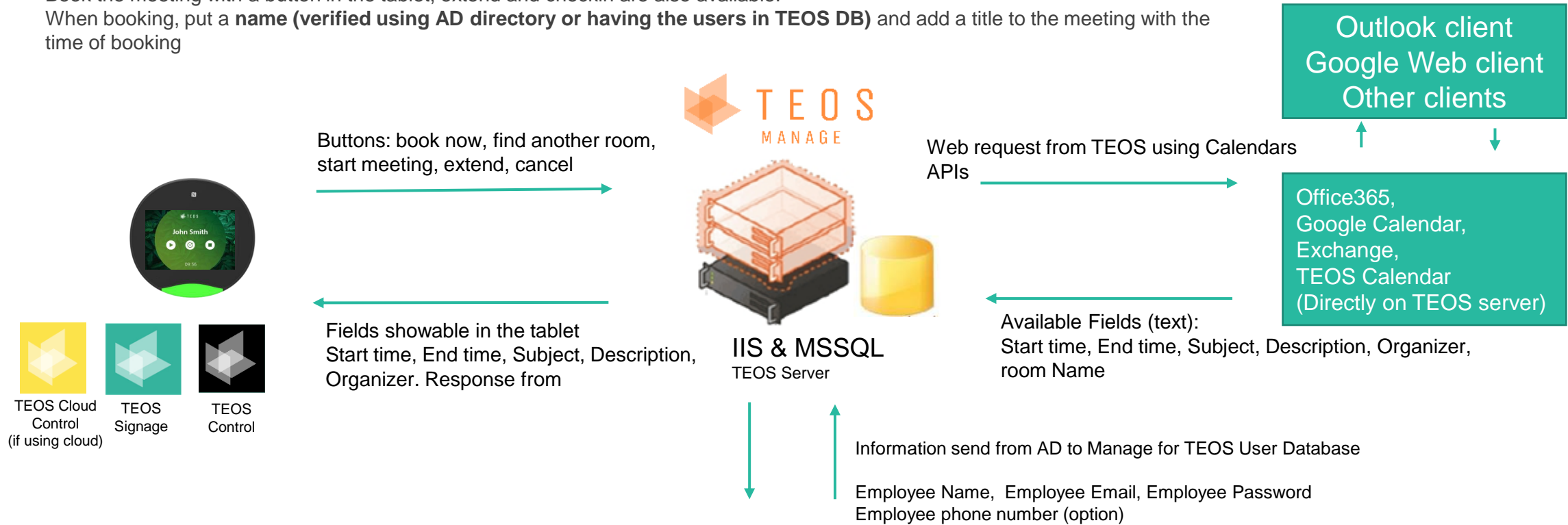


When booking a desk from the tablet any name for the booking can be insert

Desk for TEOS - Workflow with room viewing

Book the meeting with a button in the tablet, extend and checkin are also available.

When booking, put a **name (verified using AD directory or having the users in TEOS DB)** and add a title to the meeting with the time of booking



Active Directory Configuration

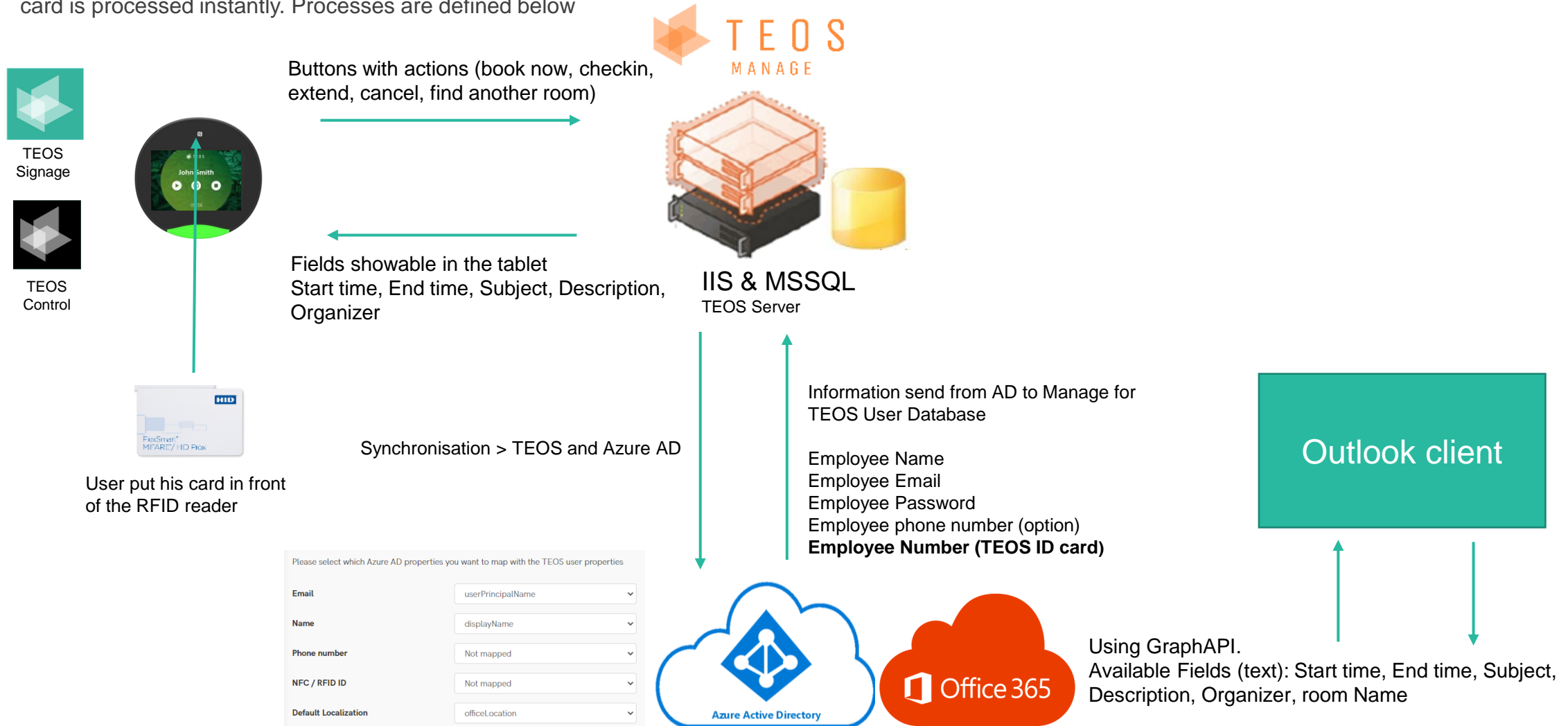
Domain controller address	ADController									
Username	Username for AD Sync									
Password	*****									
Default Language	English									
AD groups / user roles	<table><tr><td>Out Name from AD</td><td>Administrator</td><td>X</td></tr><tr><td>Out Name from AD</td><td>IT Manager</td><td>X</td></tr><tr><td>Out Name from AD</td><td>MBusergroup</td><td>X</td></tr></table>	Out Name from AD	Administrator	X	Out Name from AD	IT Manager	X	Out Name from AD	MBusergroup	X
Out Name from AD	Administrator	X								
Out Name from AD	IT Manager	X								
Out Name from AD	MBusergroup	X								
<input type="button" value="SAVE"/>										
<input type="button" value="Back"/>										



When booking a desk from the tablet, name is searchable and verified on AD or TEOS user database

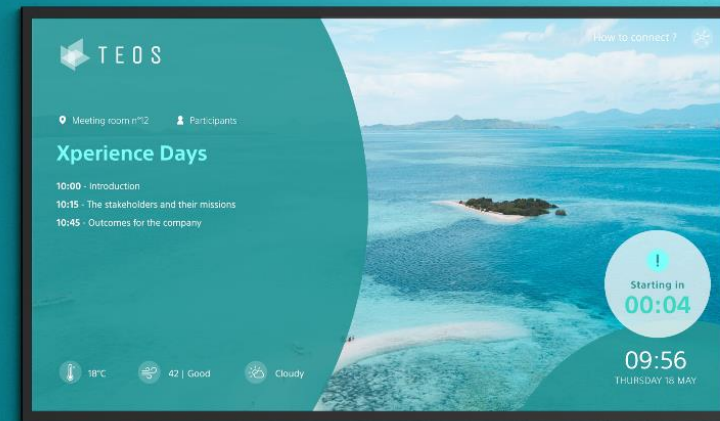
Desk booking for TEOS - Workflow with With RFID and Calendars

Integrate the RFID reader with tablets for identification to check in and book meetings. A swipe of an NFC tag or card is processed instantly. Processes are defined below



Technical workflows

Tablet for TEOS – Room control



CLOUD > Tablets port communication

Tablets (TEB-7XPL, TEB-7XPLN)



Outgoing to server (Server listening ports)

- TCP – 5671 (TEOS Cloud Control)
- TCP – 5672 (TEOS Cloud Control)
- TCP - Port 443 (Web server)

Sending commands and data



Initiating the connection (pull)

Cloud for TEOS



SMB
CLOUD



ENTERPRISE
CLOUD

outgoing to server
(tablet listening ports)

TEOS
compatible
add-ons



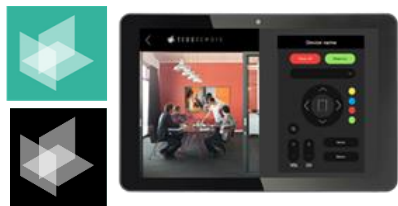
TEOSSIGNAGE



TEOSROOMCONTROL

ON-PREMISE > Tablets port communication

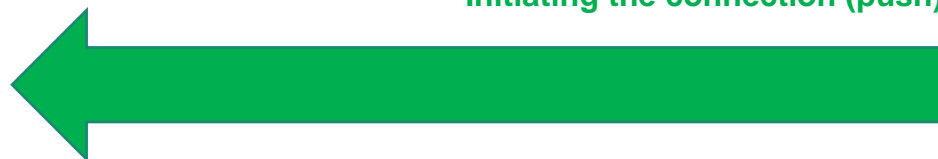
Tablets (TEB-7XPL, TEB-7XPLN)



**Outgoing to server
(Server listening ports)**

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)
- UDP – Port 123 (NTP)

Initiating the connection (push)



Sending Status and data

Manage for TEOS Server



**Incoming from server
(Tablet listening ports)**

- Type 8 and 0 (icmp ping for autodiscovery)
- TCP – 6541 (TEOS Player Signage app)
- TCP – 5544 (TEOS Control)
- TCP – 5545 (TEOS Control with SSL)
- TCP – 5555 (for maintenance)

**TEOS
compatible
add-ons**



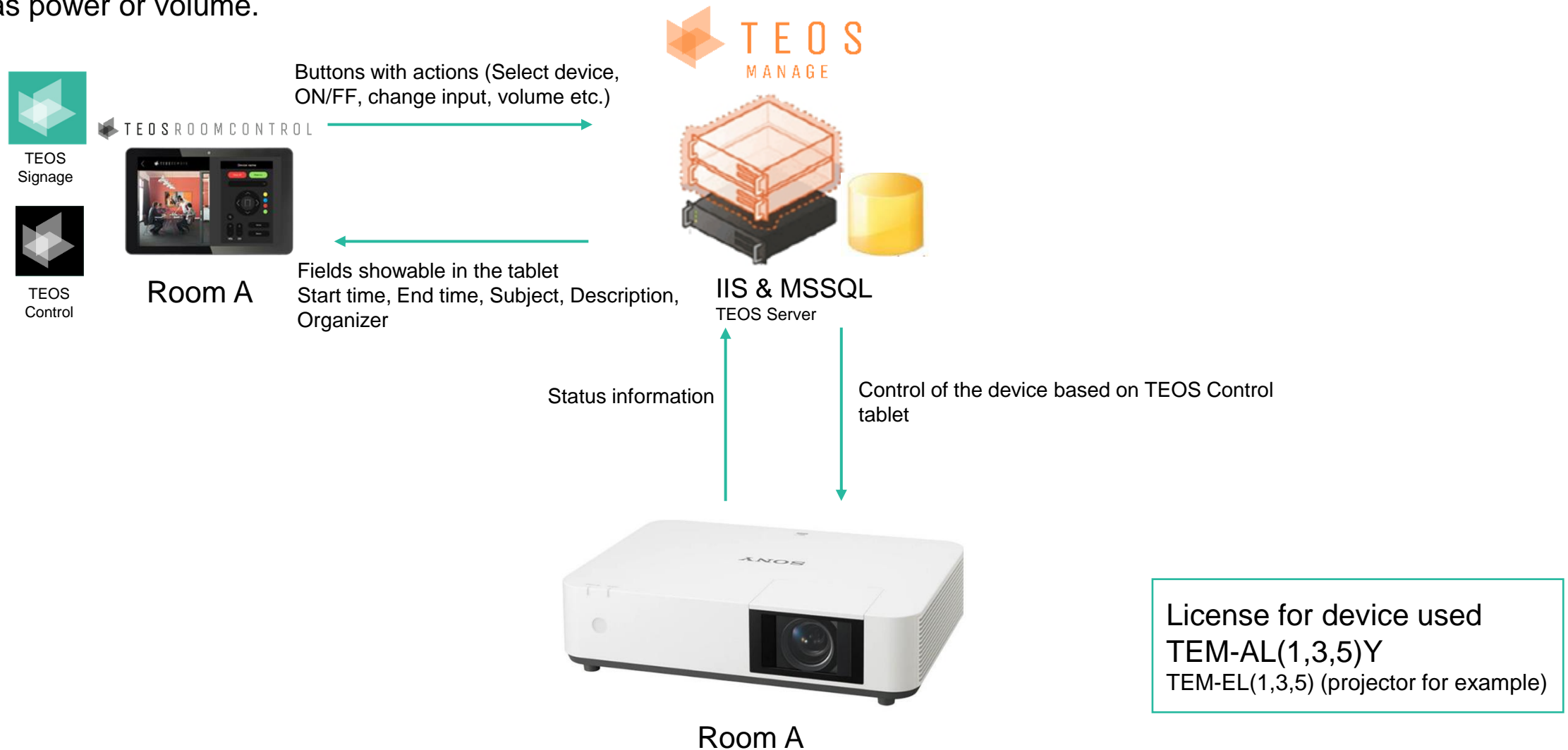
TEOSSIGNAGE



TEOSROOMCONTROL

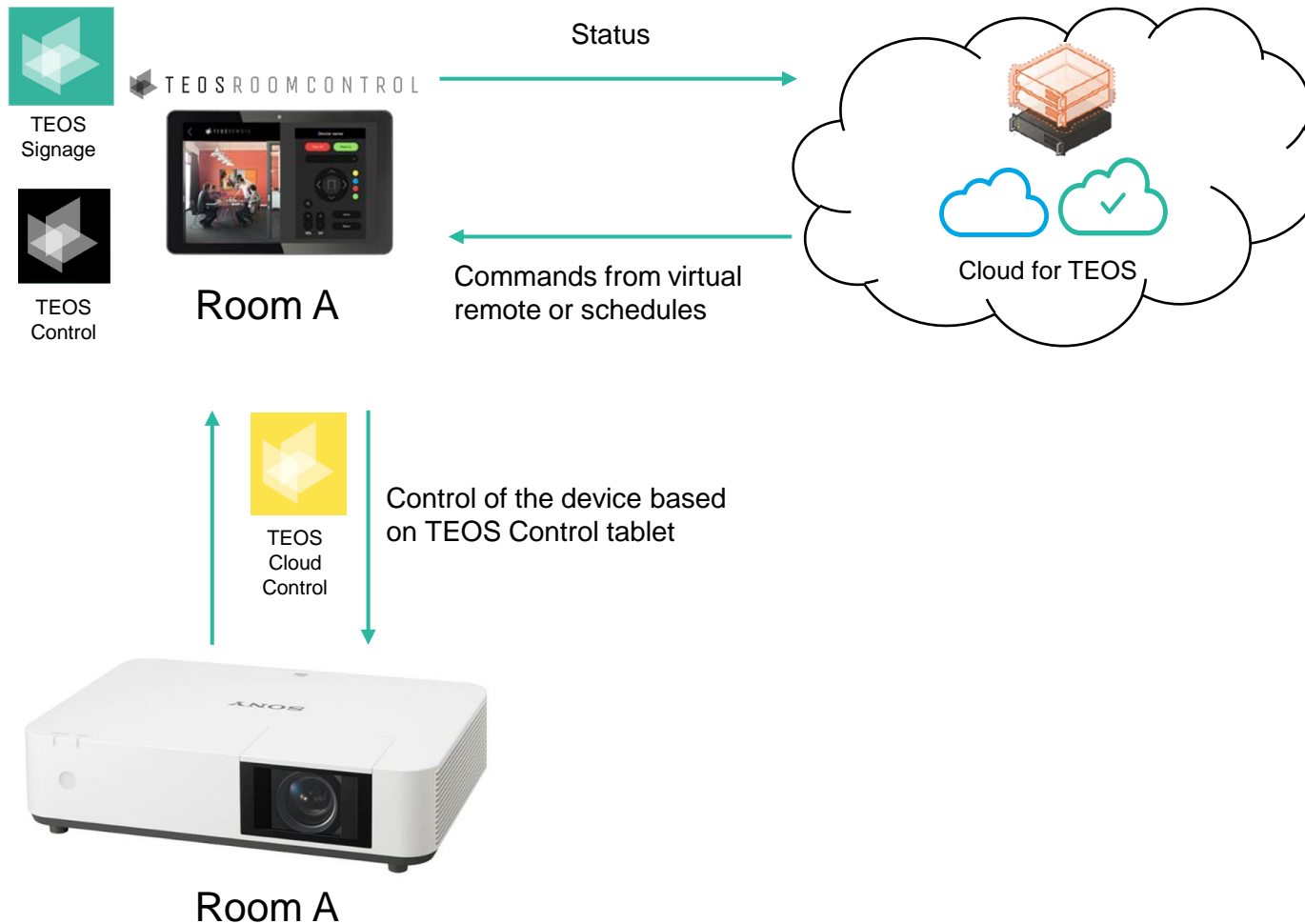
ON-PREMISE > Room control for TEOS – Workflow example

Meeting participants can take control of connected devices in the room from an interactive digital interface to adjust setting such as power or volume.



CLOUD > Room control for TEOS – Workflow example

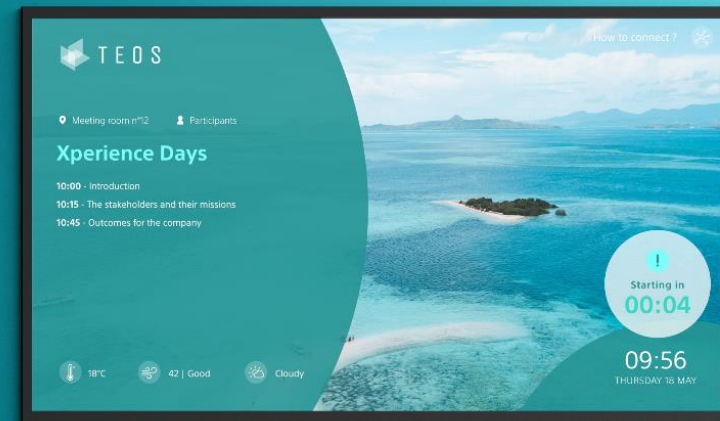
Meeting participants can take control of connected devices in the room from an interactive digital interface to adjust setting such as power or volume.



License for device used
TEM-AL(1,3,5)Y (tablet)
TEM-EL(1,3,5)Y projector for example

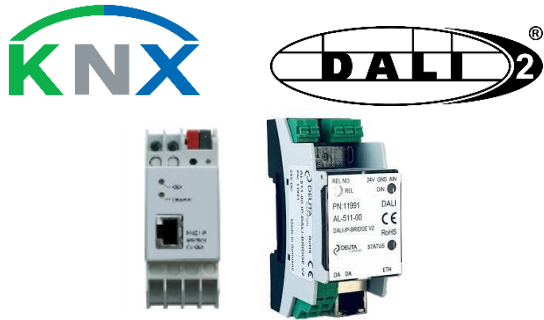
Technical workflows

Building Management – DALI & KNX (On-premise only)



Building (KNX and DALI) port communication

KNX and DALI IP interfaces



Outgoing to server (Server listening ports)

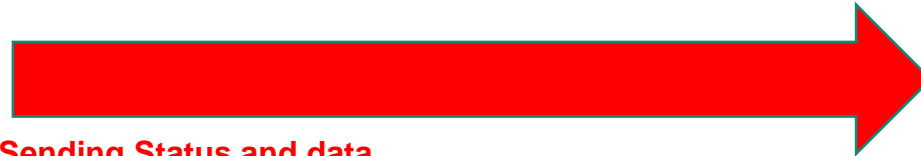
- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)
- UDP – Port 123 (NTP)

License for 20 devices used
TEM-SL20.(1,3,5)Y

Initiating the connection (push)



Sending Status and data



Manage for TEOS Server

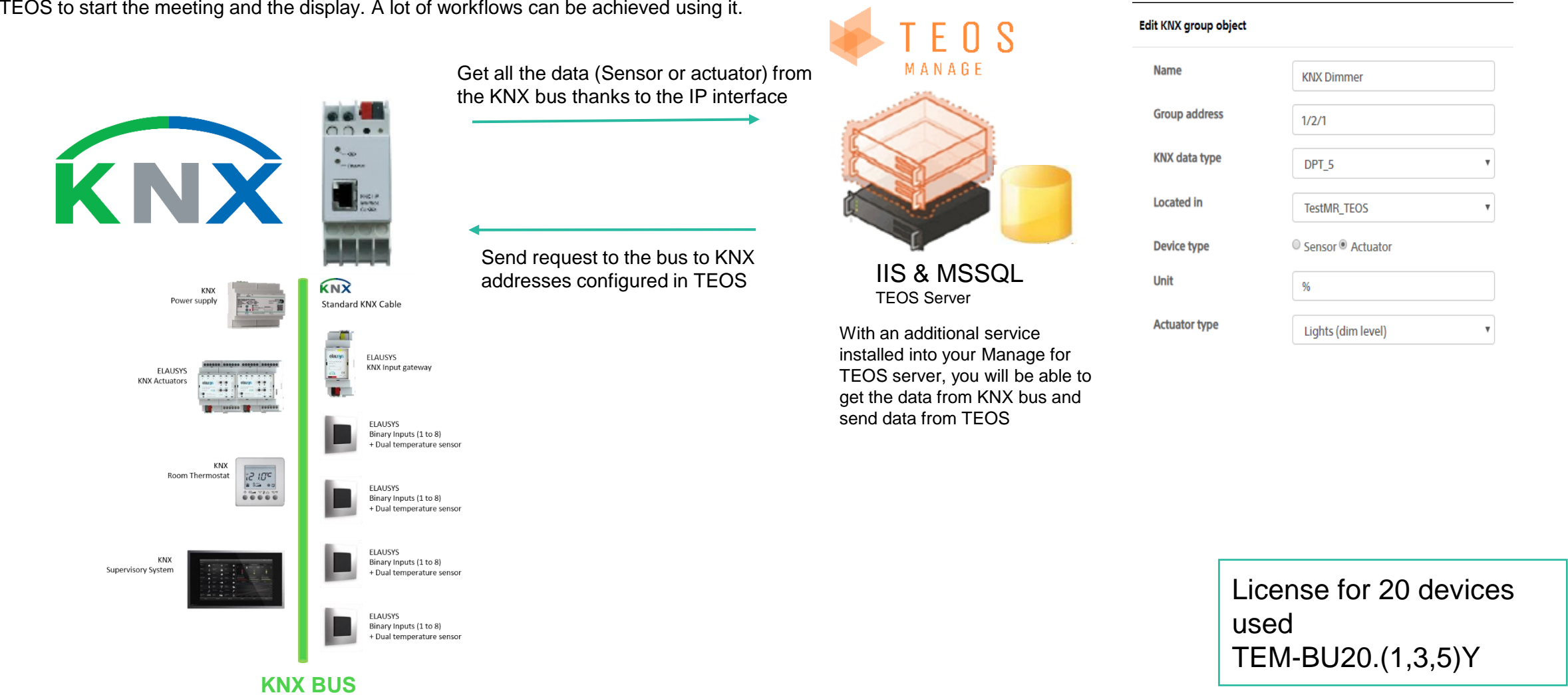


Incoming from server (devices listening ports)

- KNX: TCP/UDP – 3671 (default port)
- DALI: TCP– 23

Building Gateways – KNX

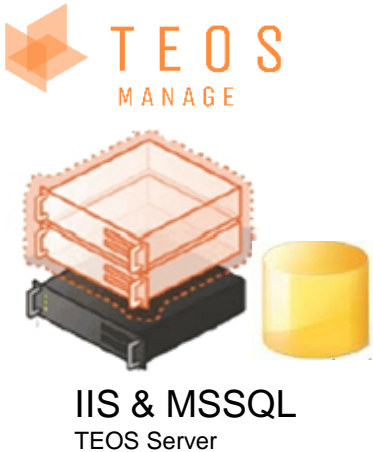
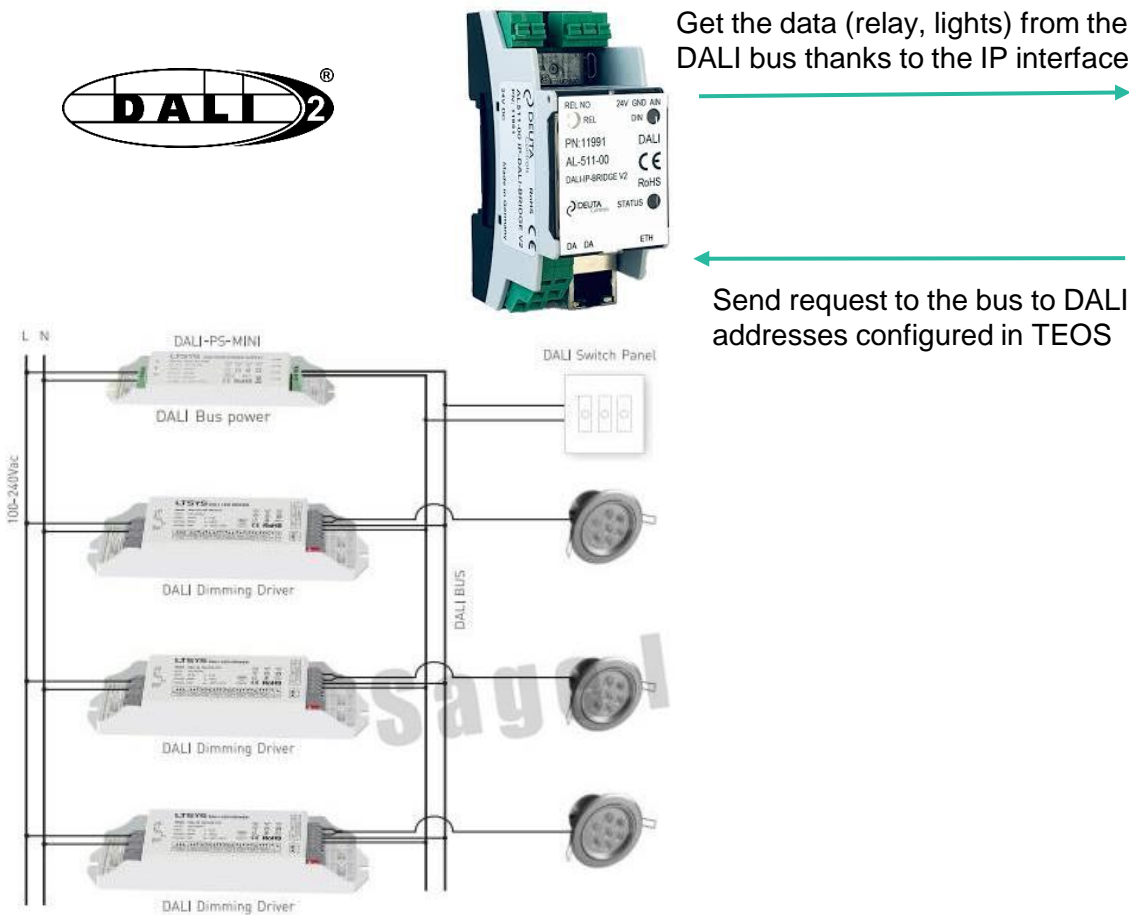
Using the Building & IoT and the automation scenario in TEOS you will be able to use for example the KNX sensor (if you have) used for the Light where data is retrieved into TEOS to start the meeting and the display. A lot of workflows can be achieved using it.



License for 20 devices used
TEM-BU20.(1,3,5)Y

Building Gateways – DALI

Using the Building & IoT and the automation scenario in TEOS you will be able to use for example the DALI 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.



With an additional service installed into your Manage for TEOS server, you will be able to get the data from DALI bus and send data from TEOS

Add DALI object

Name

Object type ☒ Device ☐ Group ☐ Scene

Address

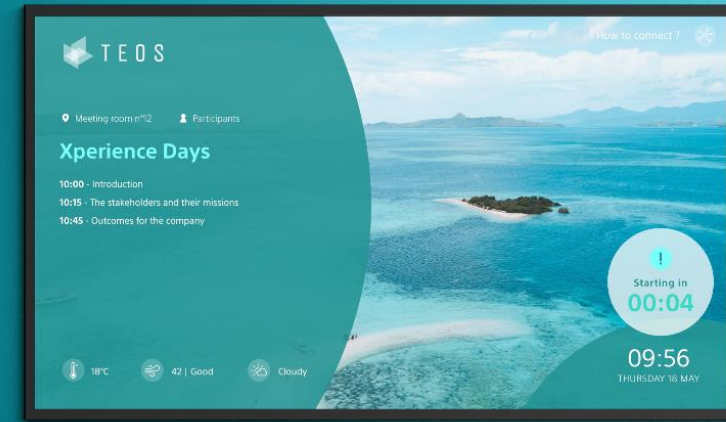
Located in

Actuator type

License for 20 devices used
TEM-BU20.(1,3,5)Y

Technical workflows

Building Management – LoRaWAN sensors



IoT (InternetofThings - LoRaWAN) port communication

TheThingsNetwork & TheThingsIndustries

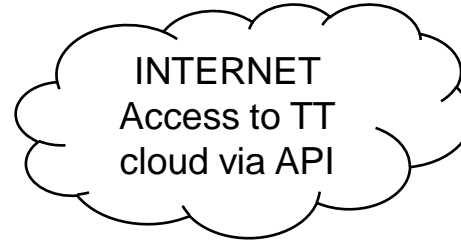


Outgoing to TEOS (Server listening ports)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)
- UDP – Port 123 (NTP)

License for 20 devices used
TEM-SL20.(1,3,5)Y

Initiating the connection (push)



Sending data

Manage for TEOS Server

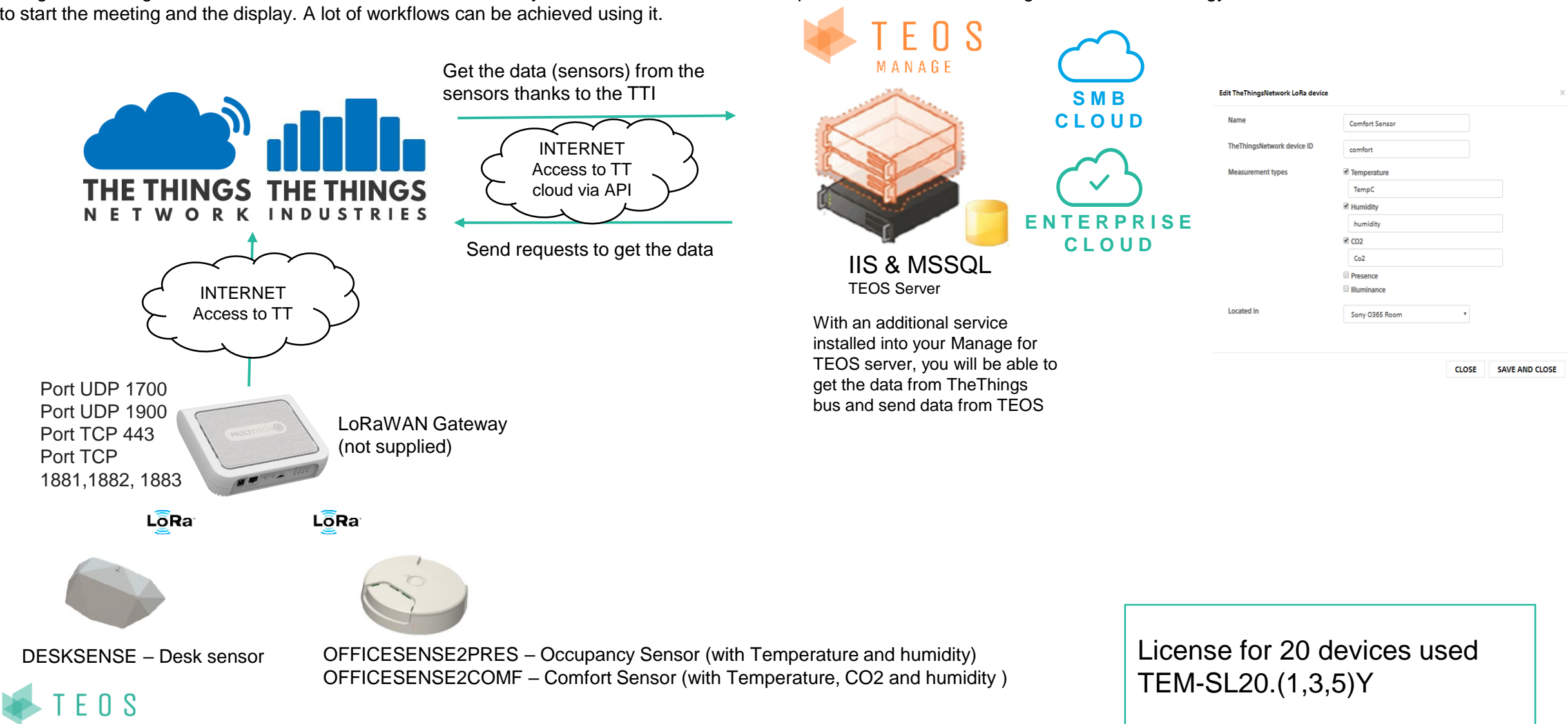


Incoming from server (TT listening ports)

- TCP – 1883 for MQTT Connection
- TCP – 80/443
- UDP – 1700 (for LoRaWAN gateway)
- UDP - 1900 (for LoRaWAN gateway)
- TCP – 443
- TCP - 1881,1882, 1883

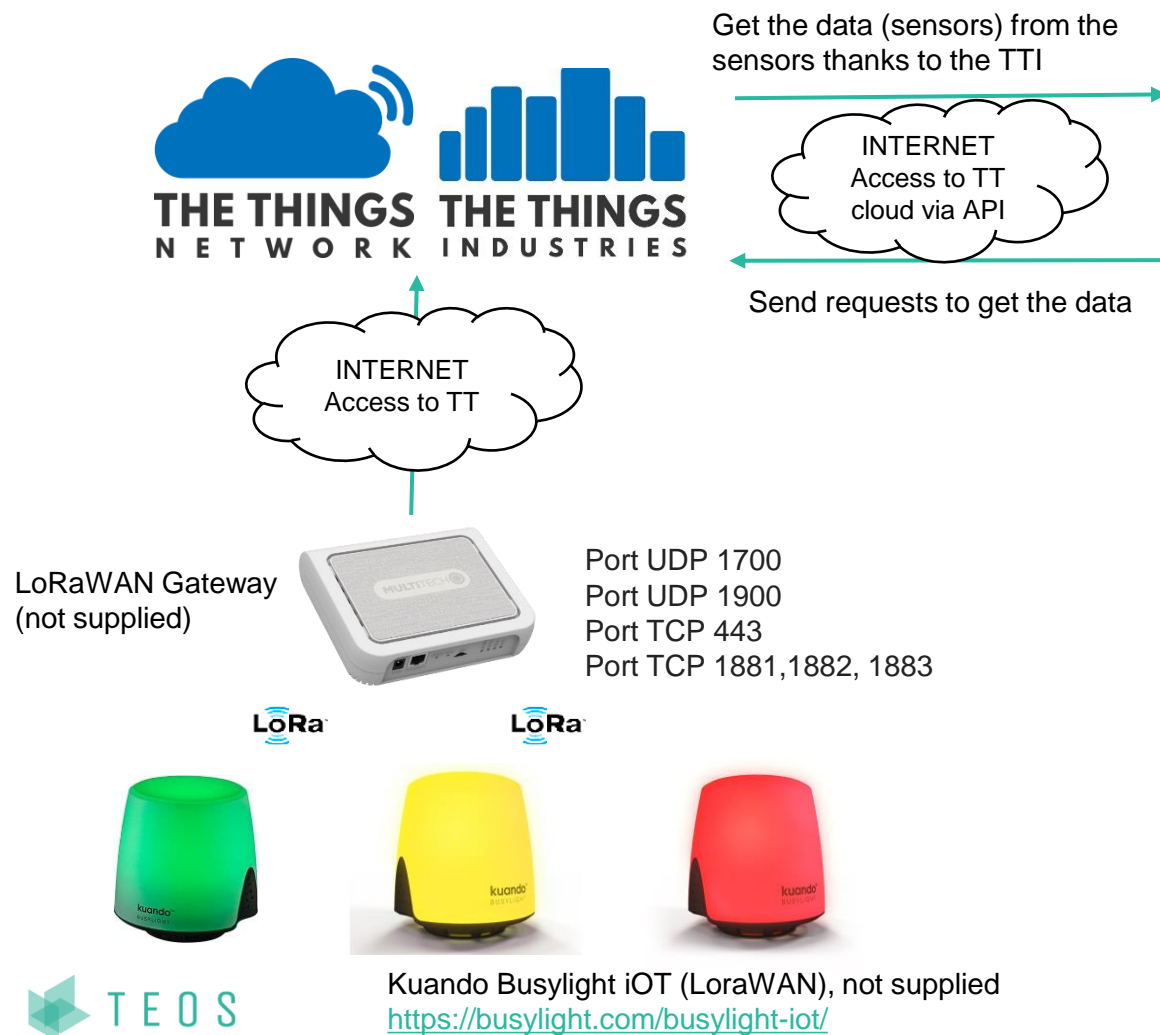
IoT (InternetofThings - LoRaWAN)

Using the Building & IoT and the automation scenario in TEOS you will be able to use for example the TEOS sensors using LoRaWAN technology data is retrieved into TEOS to start the meeting and the display. A lot of workflows can be achieved using it.



IoT (InternetofThings - LoRaWAN)

Using the Building & IoT and the automation scenario in TEOS you will be able to use for example the Kuando Busylight Lights using LoRaWAN technology. Data is retrieved into TEOS to send the color which show the status of a meeting room or a desk



The screenshot shows the TEOS Manage interface. The top bar has the TEOS logo and the word 'MANAGE'. Below the bar, there are icons for SMB CLOUD and ENTERPRISE CLOUD. The main content area shows the configuration for a LoRaWAN device. The device name is 'busy1', the device ID is 'busy1', the actuator type is 'Kuando Busylight', and the location is '0365 - Room01'. There are 'CLOSE' and 'SAVE AND CLOSE' buttons at the bottom right.

TEOS
MANAGE

SMB CLOUD

ENTERPRISE CLOUD

Edit TheThingsNetwork LoRa device

Name	busy1
TheThingsNetwork device ID	busy1
Actuator type	Kuando Busylight
Located in	0365 - Room01

CLOSE SAVE AND CLOSE

IIS & MSSQL
TEOS Server

With an additional service installed into your Manage for TEOS server, you will be able to get the data from TheThings bus and send data from TEOS

License for 20 devices used
TEM-SL20.(1,3,5)Y
TTI platform additional fee for unlimited downlink

LoRa Sensors

		DESKSENSE (Desk sensor)	OFFICESENSE2PRES (occupancy sensor)	OFFICESENSE2COMF (comfort sensor)
Communication	Functionality	Desk presence detection	Presence, temperature and humidity	Co2, temperature, humidity, sound, light
	Data communication	LoRaWAN Class A	LoRaWAN Class A	LoRaWAN Class A
	Connection	LoRa Gateway and TTN (not supplied by Sony)	LoRa Gateway and TTN(not supplied by Sony)	LoRa Gateway and TTN (not supplied by Sony)
	Integration with Manage for TEOS	Yes (using TheThingsNetwork, TTN)	Yes (using TheThingsNetwork, TTN)	Yes (using TheThingsNetwork, TTN)
	Compatible license in Manage for TEOS	TEM-SL(1,3,5)Y.20 (not included)	TEM-SL(1,3,5)Y.20 (not included)	TEM-SL(1,3,5)Y.20 (not included)
Presence sensor	Presence detection	Device's intelligent software determines desk occupancy based on PIR sensor data	Device's intelligent software determines desk occupancy based on PIR sensor data	-
Temperature sensor	Temperature output range	-	[-40 °C to +80 °C], in °C or F	[-40 °C to +80 °C], in °C or F
	Temperature resolution	-	0.01°C	0.01°C
	Temperature accuracy	-	±0.4°C (typical)	±0.4°C (typical)
Humidity sensor	Relative humidity measurement range	-	0-100%	0-100%
	Relative humidity resolution	-	0.1%	0.1%
	Relative humidity accuracy	-	±2% (typical)	±2% (typical)
Co2 sensor	Co2 measurement range	-	-	0-5000 ppm
	Co2 resolution	-	-	1 ppm
	Co2 measurement accuracy	-	-	+/- (45ppm+3% of reading)
Sound Sensor	Sound range	-	-	35-99 dB
	Sound resolution	-	-	1 dB
	Sound accuracy	-	-	±5 dB
Light sensor	Light range	-	-	4 - 4000 LUX
	Light resolution	-	-	1 LUX
	Light accuracy	-	-	± 10 LUX
Power requirement	Power supply	2 Standard AA batteries (preferably long lifespan) not supplied	2 or 4 Standard AA batteries (preferably long lifespan) not supplied	4 Standard AA batteries (preferably long lifespan) not supplied
	Battery life-span	>5 years* (Based on standard factory settings and battery quality)	>10 years* (Based on standard factory settings and supplied 4 batteries)	> 12 months * (Based on standard factory)
	Operating voltage	1.2-3V (10 uA in deep sleep)	1.2-3V (10 uA in deep sleep)	1.2-3V (10 uA in deep sleep) not supplied
	Frequency plan	EU868, US915, IN865 (AU915, AS925)**	EU868, US915, IN865 (AU915, AS925)**	EU868, US915, IN865 (AU915, AS925) **
Dimension and Weight	Dimensions	137 x 75 x 27mm	115x115x40mm	115x115x40mm
	Weight	0.14 Kg (including batteries)	0.27 Kg (including batteries)	0.27 Kg (including batteries)
	Attachment	Double-sided tape	Clip or double-sided tape	Clip or double-sided tape
Processor		STM32L0, ARM Cortex-M0+	STM32L0, ARM Cortex-M0+	STM32L0, ARM Cortex-M0+
Recommended installation location		Indoor under the desk	Indoor on the ceiling in Meeting Rooms	Indoor on the ceiling (Open spaces and meeting rooms)
Detection Area		35-55 cm from the edge of the table 0.8m high x 0.8m width x 0.66m depth	44° @2.2m High and R= 2.2m	
Package content	Included in the package	1x Sensor without battery and double side tape	1x Sensor without battery, double side tape and clip	1x Sensor without battery, double side tape and clip
Warranty	Standard Warranty	3 years with advanced exchange	3 years with advanced exchange	3 years with advanced exchange

* Battery life indicated above is a theoretical value and has been verified by a fast-aging procedure. However, battery life is dependent on factors such as battery quality, moisture, temperature, etc.

** The band used depends on deployment region, contact your distributor for more information)

Employee, Mobile App and Outlook Outlook Add-in for TEOS Technical workflows



Employee and Mobile App port communication

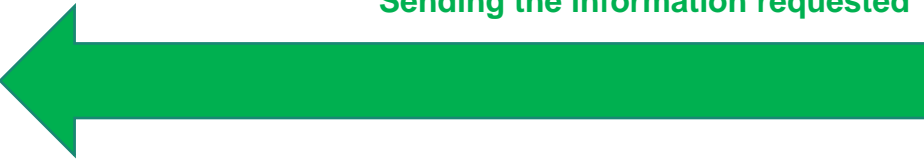
Web browser or app



Outgoing to server (server listening port)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)

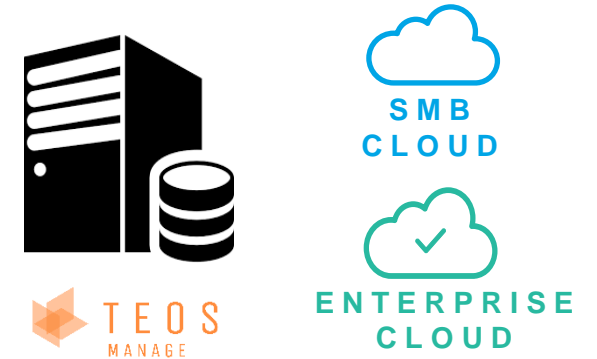
Sending the information requested



Initiating the connection



Manage for TEOS Server



Incoming from server (device listening ports)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)

Device
compatible



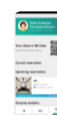
Windows (web browser)



Mac (web browser)



Android App

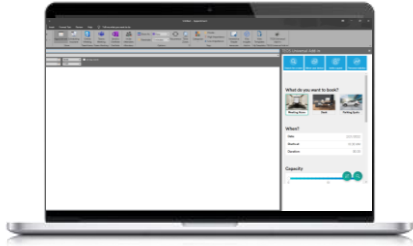


iOS App

License for 20 users
TEM-SL(1,3,5)Y.20

Mobile App port communication

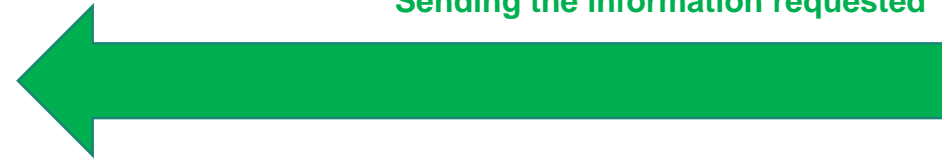
Outlook 2010+ using Office365 or Microsoft Exchange



Outgoing to server (server listening port)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)

Sending the information requested



Initiating the connection



Manage for TEOS Server



TEOS
MANAGE



SMB
CLOUD

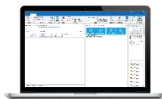


ENTERPRISE
CLOUD

Incoming from server (device listening ports)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)

compatibility



Outlook 2010+ using Office365 or Exchange back-end

License for 20 users
TEM-SL(1,3,5)Y.20

Third parties

Technical workflow



CLOUD > Third parties

Third parties devices



Outgoing to TEOS Cloud Control (BRAVIA, Tablet and Player)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)

Initiating the connection



Sending Status and data

Manage for TEOS Server



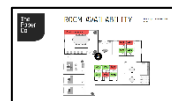
Incoming TEOS Cloud Control devices (devices listening ports)

- TCP - Port 80 (Web server & Bravia)
- TCP - Port 443 (Web server)
- TCP – 4352 (PJLink including Sony projector)
- TCP – 5000 (Phillips Monitor IP control)
- TCP – 1515 (Samsung monitors IP control)
- TCP – 10161 (LG Displays IP SNMP protocol)
- TCP – 10162 (LG Displays IP SNMP protocol)
- UDP – 161 (LG Displays IP SNMP protocol)
- UDP – 162 (LG Displays IP SNMP protocol)
- TCP – 4000 and 4001 (Barco Clickshare)
- UDP – 7 and 9 (Wake On Lan)

TEOS compatible
add-ons via Player



TEOSSIGNAGE



TEOSWAYFINDING



Corporate IPTV



TEOS Videowall



TEOSCONNECT



Rooms Status

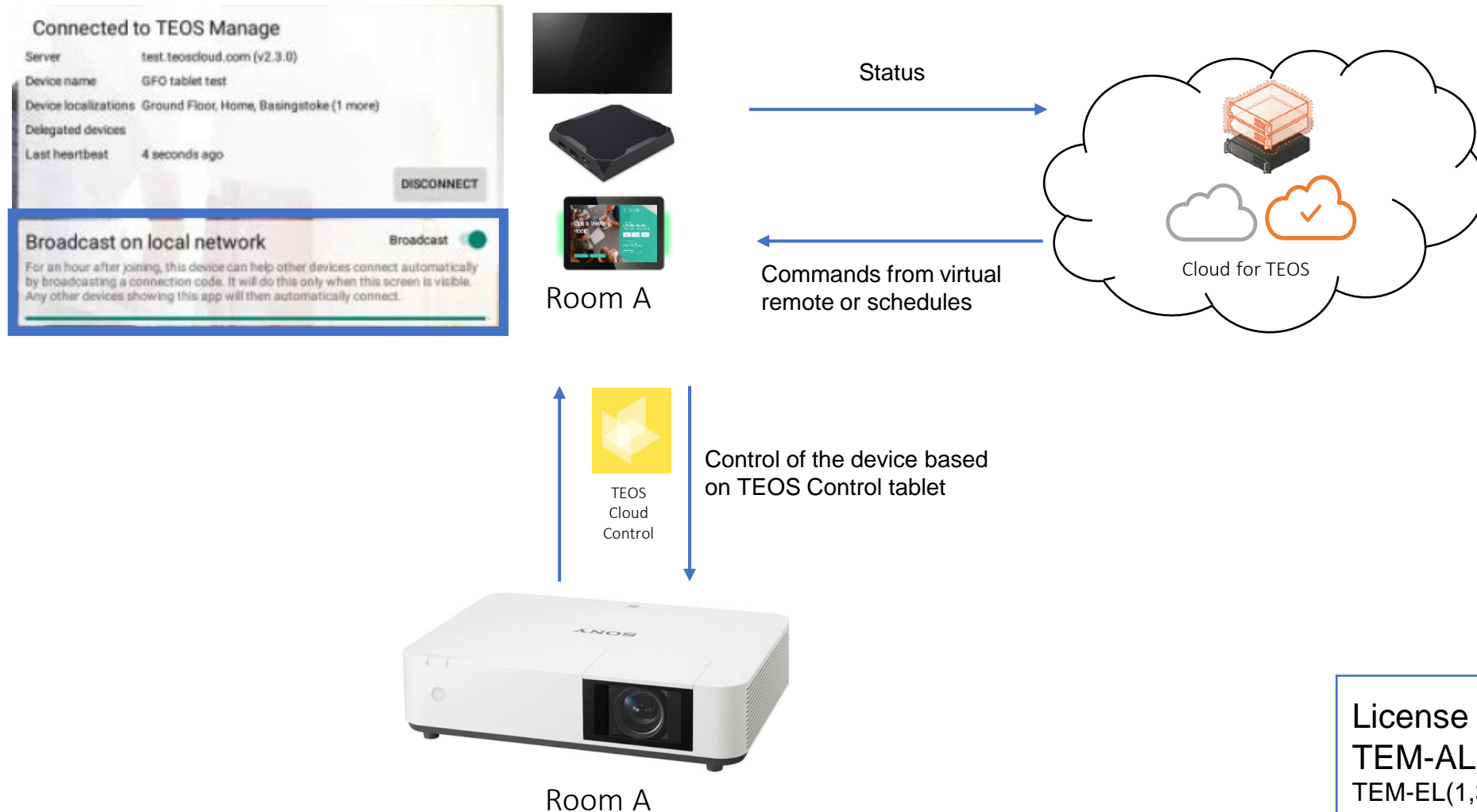


Meeting Display

License for devices used
TEM-EL(1,3,5)Y IP Control

CLOUD for TEOS – Workflow example

Meeting participants can take control of connected devices in the room from an interactive digital interface to adjust setting such as power or volume.



ON-PREMISE > Third parties

Third parties devices



Outgoing to server (server listening port)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)
- UDP – Port 123 (NTP)

Initiating the connection



Sending Status and data

Manage for TEOS Server



Incoming from server (devices listening ports)

- Type 8 and 0 (icmp)
- TCP - Port 80 (Web server & Bravia)
- TCP - Port 443 (Web server)
- TCP – 4352 (PJLink including Sony Projector)
- TCP – 5000 (Phillips Monitor IP control)
- TCP – 1515 (Samsung monitors IP control)
- TCP – 10161 (LG Displays IP SNMP protocol)
- TCP – 10162 (LG Displays IP SNMP protocol)
- UDP – 161 (LG Displays IP SNMP protocol)
- UDP – 162 (LG Displays IP SNMP protocol)
- TCP – 4000 and 4001 (Barco Clickshare)
- UDP – 7 and 9 (Wake On Lan)

TEOS
compatible add-
ons via Player



TEOSSIGNAGE



TEOSWAYFINDING



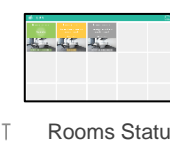
Corporate IPTV



TEOS Videowall



TEOSCONNECT



Rooms Status

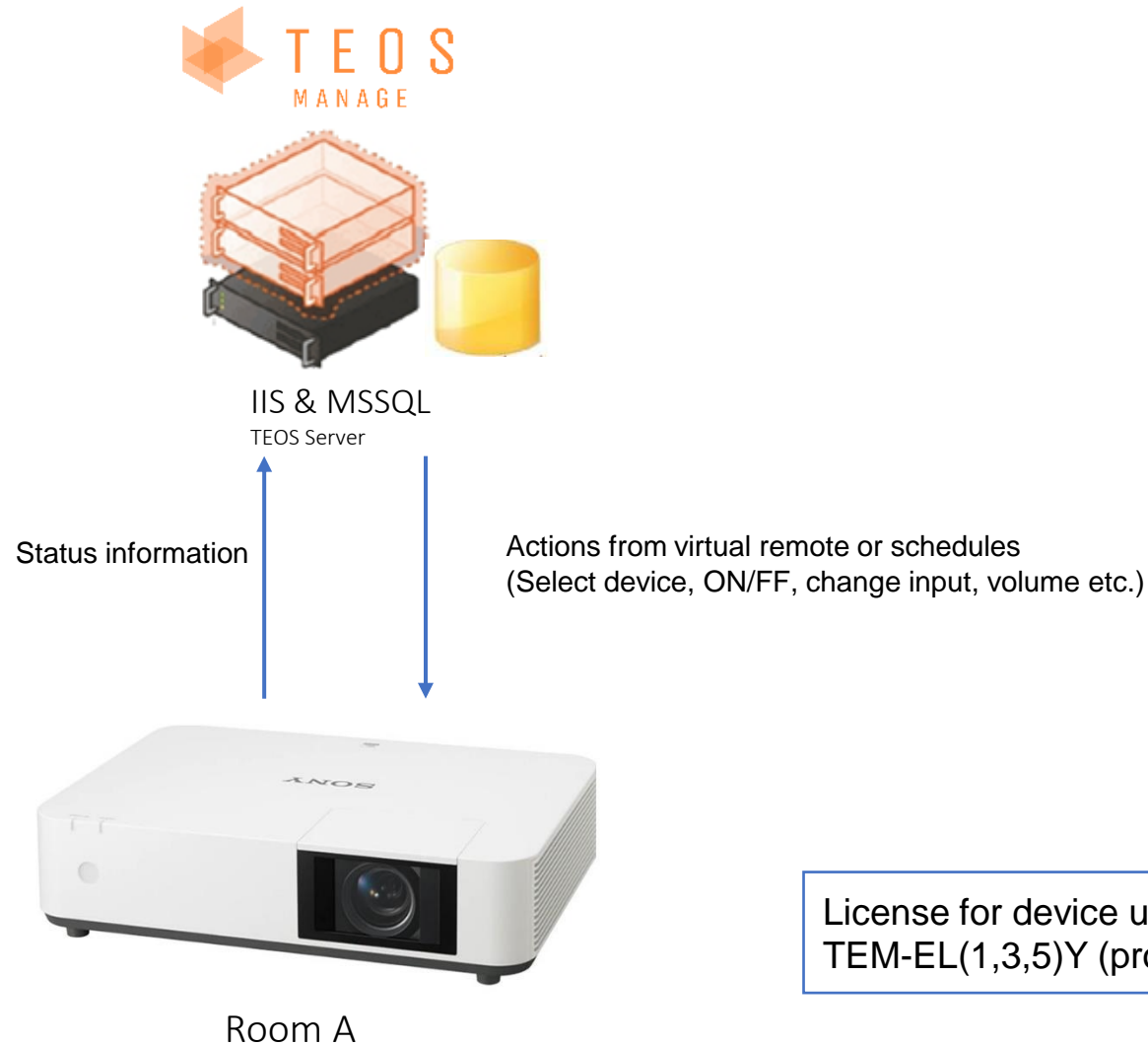


Meeting Display

License for devices
used
TEM-EL(1,3,5)Y IP
Control

ON-PREMISE > Third party control – Workflow example

Meeting participants can take control of connected devices in the room from an interactive digital interface to adjust setting such as power or volume.



Third parties

Third parties devices



Outgoing to server
(server listening port)

- TCP - Port 80 (Web server)
- TCP - Port 443 (Web server)
- UDP – Port 123 (NTP)

Initiating the connection



Sending Status and data

Manage for TEOS Server



Incoming from server (devices listening ports)

- TCP - Port 80 (Web server & Bravia)
- TCP - Port 443 (Web server)

TEOS compatible
add-ons directly
with HTML5



License for devices used
TEM-AL(1,3,5)Y IP Control

Third party HTML5 Content – Workflow example

Keep the same message no matter the space is with a centralized content managed by TEOS and sent in HTML to third party devices



<https://teos.solutions>

THANKS

