

Corporate TV for TEOS

TEOS Installation & User manual

Document revision 1.2

Description

This guide explains what the add-on Corporate is and how it can be used and configured in Manage for TEOS. The playout from on TEOS Signage App of HLS, RTMP and UDP streams is explained in this document.

Requirements

- From Manage for TEOS 2.1
- TEOS Signage App 4.26 minimum and TEOS Control App 1.24 minimum
- TEOS Connect Receiver 1.9.4.0 minimum (For user controlling Corporate TV)
- Please refer to the Release note of the latest Manage for TEOS Version to check the latest Android apps available
- Compatible devices with TEM-DS10 (explained below) or TEM-ALxY
- Compatible devices with TEC-SC100 (explained below)
- Compatible streams with TEOS Solution (HLS, RTMP, UDP)
- iOS or Android Mobile phones for channel change with TEOS Connect Mobile (compatible with TEOS Connect 1.9.7.7)

Table of Content

1.	Corporate TV for TEOS workflow	3
1.1	Software specs Corporate TV for TEOS solution	3
1.2	Hardware Specification for Corporate TV add-on	5
2.	Install of TEOS into the compatible devices	5
2.1	Preparation of BRAVIA	5
2.2	Preparation of Android Player	5
3.	Play streams using Manage for TEOS	6
3.1	Adding streams into TEOS Signage	6
3.2	Creating a Corporate TV configuration	11
3.3	Action management in a device with Corporate TV for TEOS	14

1. Corporate TV for TEOS workflow

1.1 Software specs Corporate TV for TEOS solution

This section will explain the workflow on this Corporate TV Add-on, It Is Important to know that TEOS is only showing video streams (in HLS, RTMP and UDP) and not streaming. You will need a streaming device to send the streams and TEOS will configure It under a signage Interface and the device (BRAVIA or player will read the stream and show It). DRM not supported by TEOS.

NO PROGRAMING NEEDED



TEOS TV is easy to configure and comes with three pre-made templates: a single IPTV stream; side by side streams; picture in picture stream.

FULL CUSTOMIZATION



Administrators can create their own channel lists by simply inputting the relevant RTMP, UDP, or HLS address. Aside from content, the IPTV and device settings can also be configured, such as setting volume.

COST EFFECTIVE



TEOS TV runs on existing IP networks, so no need to set up satellite or aerial signal systems, and it can be distributed to existing displays so no need to purchase new hardware*.

SCHEDULE CONTENT & DEVICES



TEOS TV content can be scheduled so that channels play only at specific times of the day. Power schedules can also be automated so that devices turn off in evenings or on weekend.

LIVE EVENT STREAMS



TEOS TV is compatible with Virtual Production and Ubcast. If an organization is recording a live event they can share it with their workforce via live streams to displays across the office.



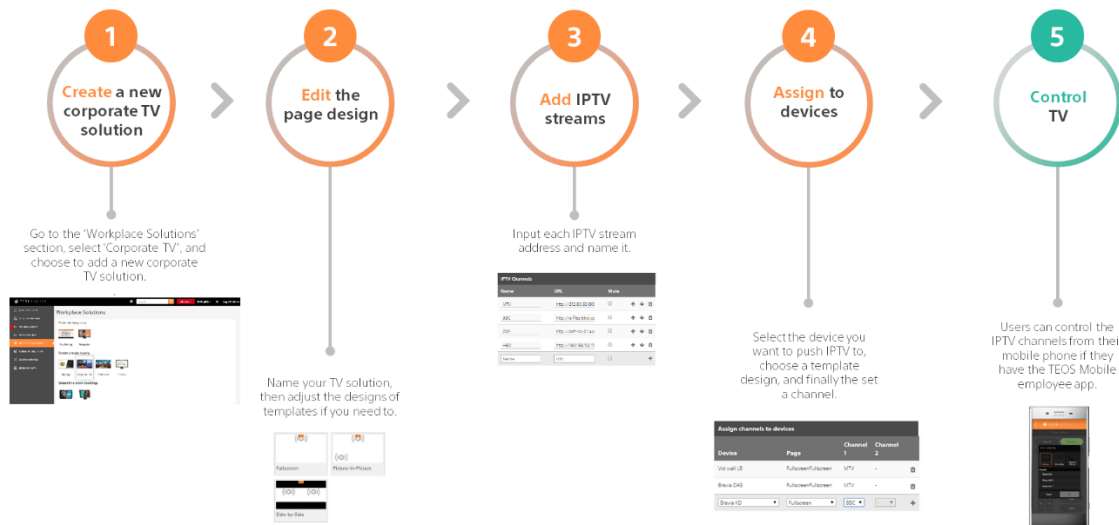
SEND ALARMS



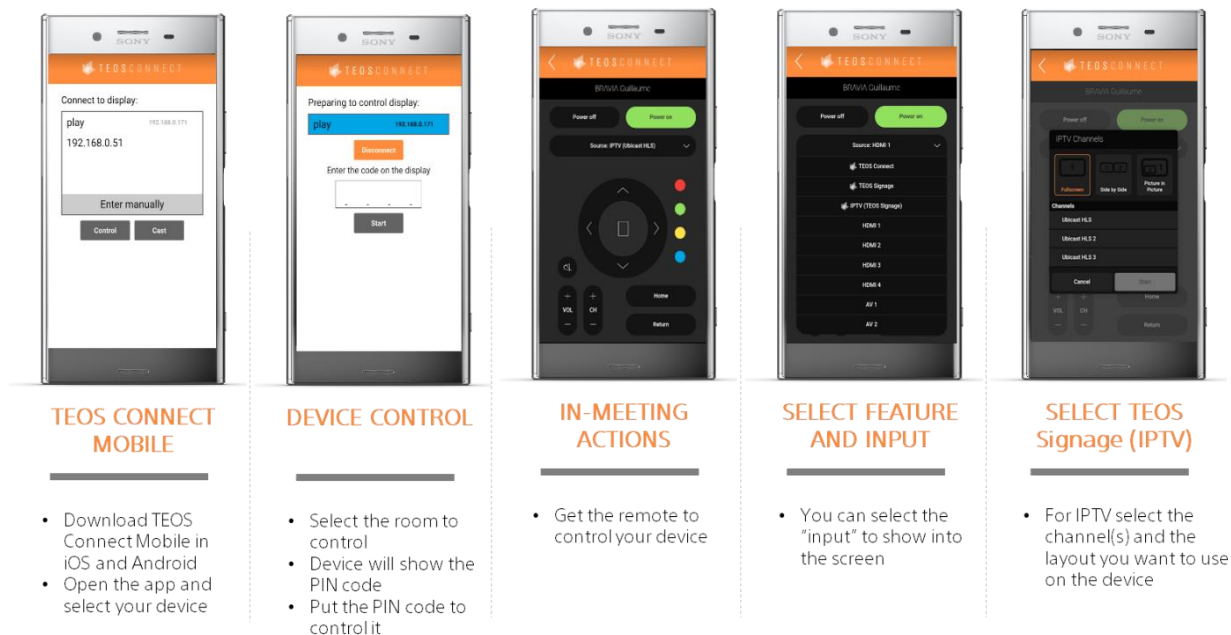
In the case of emergencies, trigger visual alarm content that can be sent to all display devices across the organization.

Formats & protocols	Streaming protocols compatible	RTMP, HLS, UDP
	Maximum resolution	1920x1080, 30fps, 4Mbps max per stream (up to 2 streams)
	IPTV compatible providers	Ubcast, Virtual Production, encoded media and third party IPTV providers
Functionalities	IPTV Streaming in Signage	Yes (only one stream)
	Scheduling	Yes (Only for Signage usage)
	Content Creation	Yes (full customization)
	Default templates	single IPTV, side-by-side, Picture In Picture stream
	Templates customisables	Yes
	Content creation elements	Text, image, website, ticker, date & time, weather etc.
	Channel control	Yes* (using TEOS Connect App available in iOS and Android)
Compatible devices	External data integration	Compatibility with Outlook 365, Microsoft Exchange, Google Agenda, Facebook, LinkedIn, Instagram & many more.
	Android BRAVIA Professional Displays, Android Player for TEOS	
	Licenses	
Warranty	TEM-DS10 License for Signage use (1 per device required) or TEM-AL1Y/3Y/5Y (new licenses)	
	TEC-SC100 (TEOS Connect for mirroring)	
	Standard warranty	1 year for support and new features firmwares
	Extensions (one per device required)	PSP.TEM100.1X, 1 additional year (no need with new licenses) PSP.TEM100.2X, 2 additional years (no need with new licenses) PSP.TEM100.4X, 4 additional years (no need with new licenses)
Additional Service	Content Creation	PSP.CET.TEOSTEMP.1
	Feature Customization	PSP.CET.CUSTOM.1
	Engineering support	PSP.CET.REMOTE.2
	Training	TRN.TEOS.REMOTE.2

TV creation workflow



To use the Corporate TV in a device, a user must use TEOS Connect Mobile App in order to get the authentication code and the control of the device. TEOS Connect Receiver needs to be installed in the device in order get the control of the device. TEOS Connect Receiver license is not mandatory to get the control, when using TEOS Connect Mobile app, the workflow is the following one:



If TEOS Connect Receiver license is not added to the device, TEOS Connect Mobile will only be able to find the device by IP Address and not by device name.

1.2 Hardware Specification for Corporate TV add-on

The device compatible with this streaming option are:

- 1) Professional BRAVIA with Android Model from FY18 (instable in older version)
- 2) Professional Android Players (please refer to the

		Android player compatible with TEOS
Performance required*	Resolutions max supported by TEOS Signage	Up to UHD (3840x2160)
	HDMI output format	16/9 formats
	Screen rotation	Landscape, portrait (hidden, only with a command or external app)
	CPU	S905X2 Quad Core with ARM Dvalin MP2 GPU, S905X3 Quad-Core 64bits, RK3318 Quad Core CPU Cortex- A53
	RAM	4GB (minimum)
	Storage	16GB (minimum), 32GB (recommended)
	Operating System	Android 8.1, Android 9, Android 10 root rights is needed
	Media compatible with TEOS	Images: JPG,PNG, GIF (Full HD max for tablets and 8MP for BRAVIA) Videos: MP4 only, up to 4K@60p 40mbps for lanscape and Full HD in portrait @ 8mbps, full HD PDF (converted in images) PowerPoint, pptx (converted in images) Audio: MP3 only Video streaming: Full HD @ 5Mbps per stream (only one stream or video uploaded per page)
Application Pre-installed And compatible TEOS License	TEOS Signage	Yes (license of TEOS Manage software side)
	TEOS Control (API)	Yes
	TEOS Cloud Control	Yes
	TEOS Connect	Yes (license not included)
	TEOS licenses	TEC-SC100 (TEOS Connect for mirroring), TEM-DS10 (TEOS Signage) or TEM-AL1Y/3Y/5Y (new license)
Example website	Reference	AAV-X96-Max
	Website	https://aavhardware.com/shop/players/aav-x96-max-signage-player/

* TEOS is not compatible with all players by default as it can depend on hardware specs

* Please contact us for other player integration/tests. They must be tested with TEOS platform before validation.

The maximum resolution tested for IPTV stream is 1080p @30fps with a bit rate of 4Mbps max, up to 2 streams can be used on the Corporate TV module

Both devices can support 4K @60fps with 60Mbps for video playout directly in TEOS Apps.

2. Install of TEOS into the compatible devices

2.1 Preparation of BRAVIA

In order to use Corporate TV for TEOS into a BRAVIA, you will have to install both TEOS Signage Player App (from version 4.30) and TEOS Connect (from version 1.9.4.0). To do so, please follow the manuals:

- Professional BRAVIA - Install TEOS Apps for TEOS Manage - rev1.1.pdf

Both documents can be found in <https://bit.ly/sonypsetech> section technical documentations

2.2 Preparation of Android Player

In order to use Corporate TV for TEOS into a Player, you will have to install both TEOS Signage Player App (from version 4.30), TEOS Control App version 1.24 and TEOS Connect (from version 1.9.4.0). To do so, please follow the manuals:

- Professional Players for TEOS - Installation & User Manual - rev1.3.pdf

Both documents can be found in <https://bit.ly/sonypsetech> section technical documentations

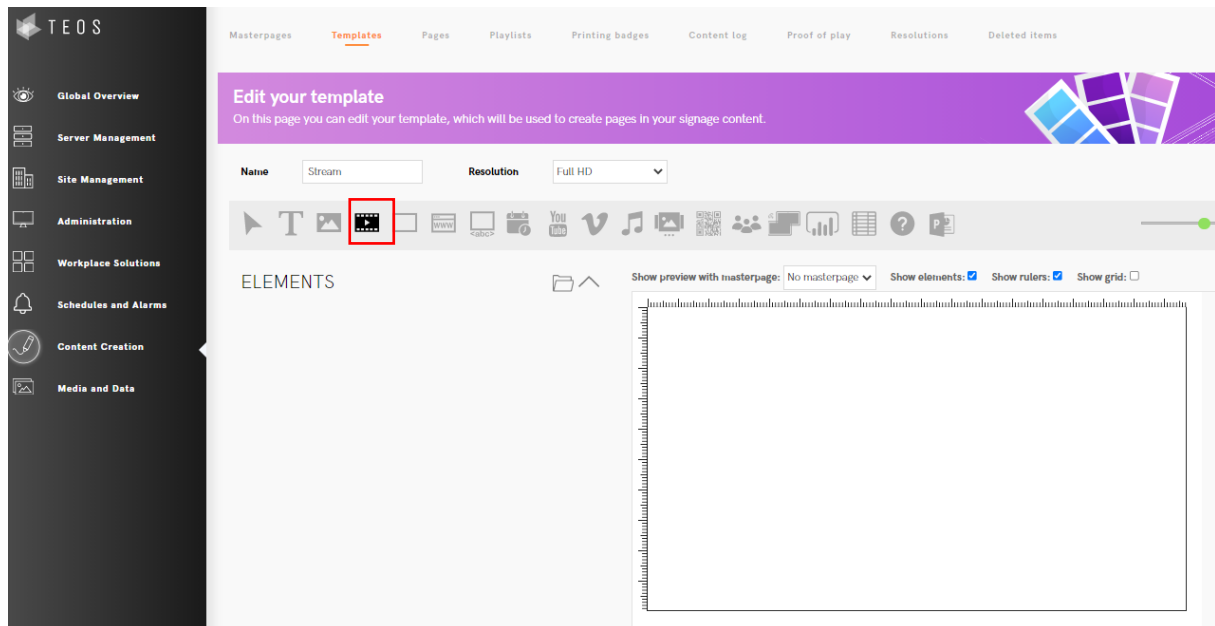
3. Play streams using Manage for TEOS

This section will explain how to configure the platform and the device to show streams under Signage and under Corporate TV Add-on.

3.1 Adding streams into TEOS Signage

Signage mode Complete

Open your Manage for TEOS interface and go to Content Creation, create a new template or use an existing template based on your resolution. Select the video element and design a zone in the template where you want to video element to be shown.



When the zone is defined, a pop-up will be shown where you will have to give a name to the element (in name field) and go to streaming tab to put your stream URL.

Video

General Layout Data Streaming Touch

Name

Editable in page ☒

Video

General Layout Data Streaming Touch

Stream url

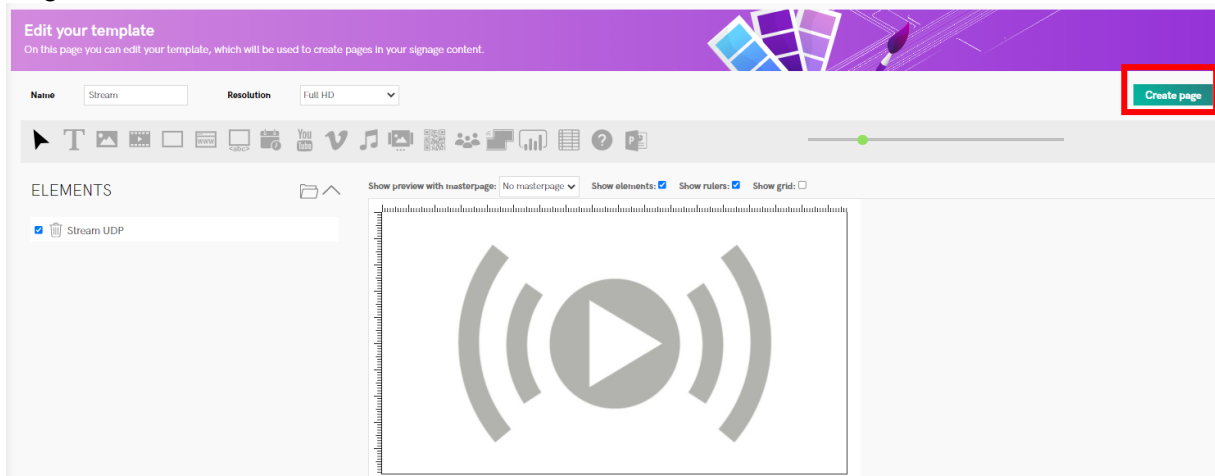
Layout positioning can be changed in the pop-up by defining position, height and width values

Video Save ×

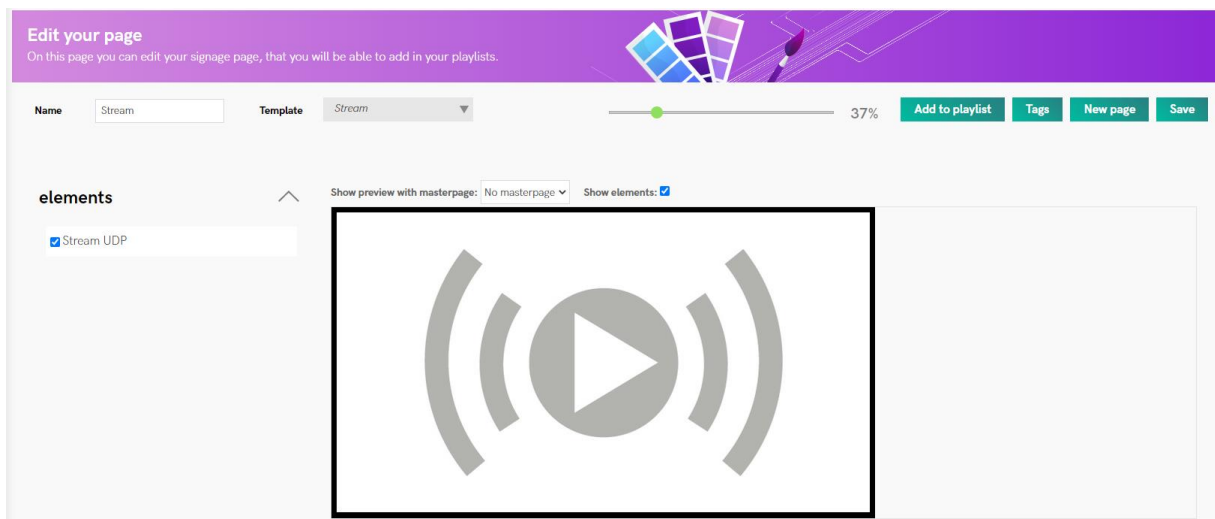
General Layout Data Streaming Touch

Left	<input type="text" value="0"/>
Top	<input type="text" value="0"/>
Width	<input type="text" value="1920"/>
Height	<input type="text" value="1080"/>

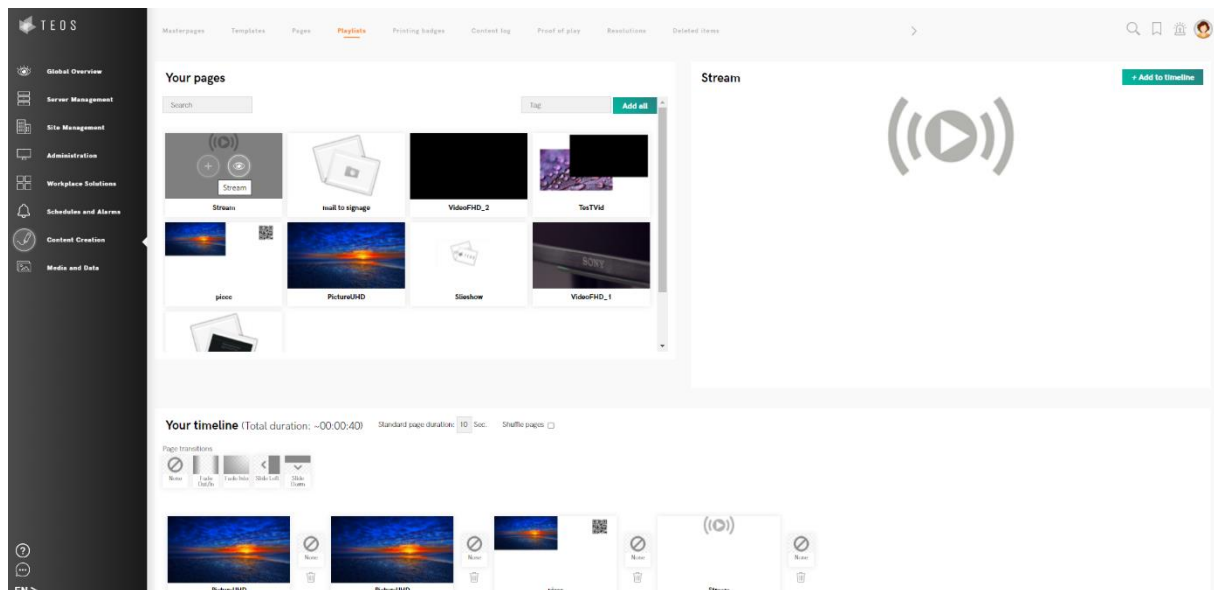
After configuring, press save, your element will be shown in your template. You can create from this same interface a page that will be included later into your playlist, press “Create Page”.



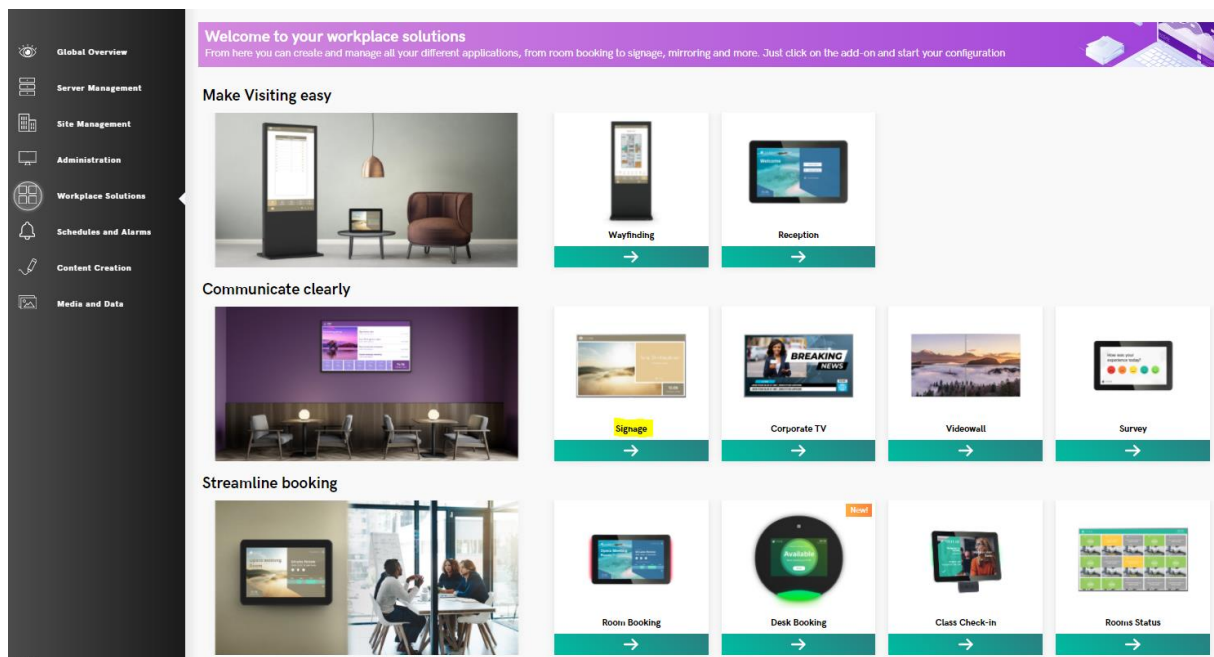
Define a name for your new page based on the template. You can change the URL of your video element in the page if you want to. The design of the page cannot be changed anymore in a page, you must go to the original template if you want to change the design of your template



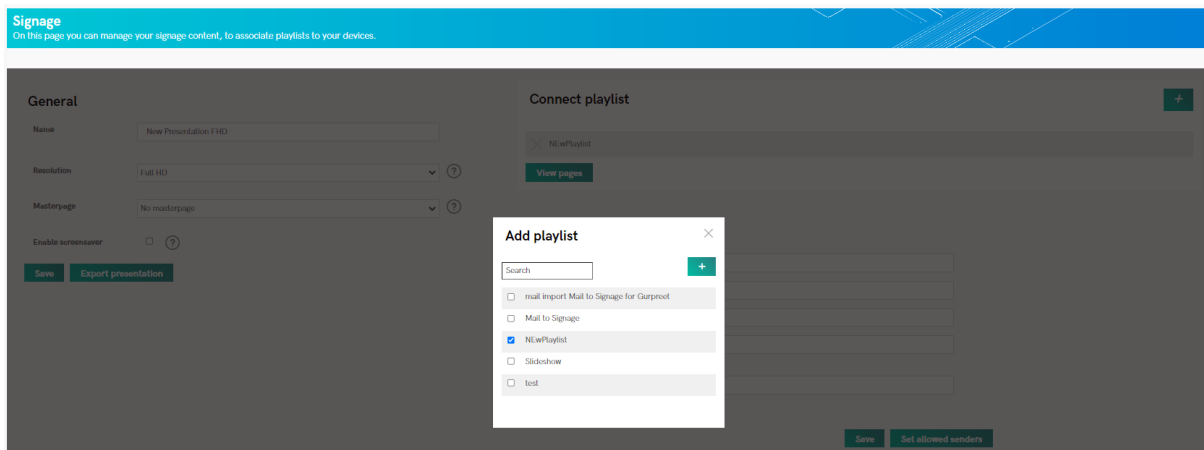
Go to Playlist and create a new playlist (or add the created page into your playlist). Search for your page created and add it to the timeline by pressing the “+” button in the page. The page will be added with a default duration. Make sure you select the page duration you want to show your stream.



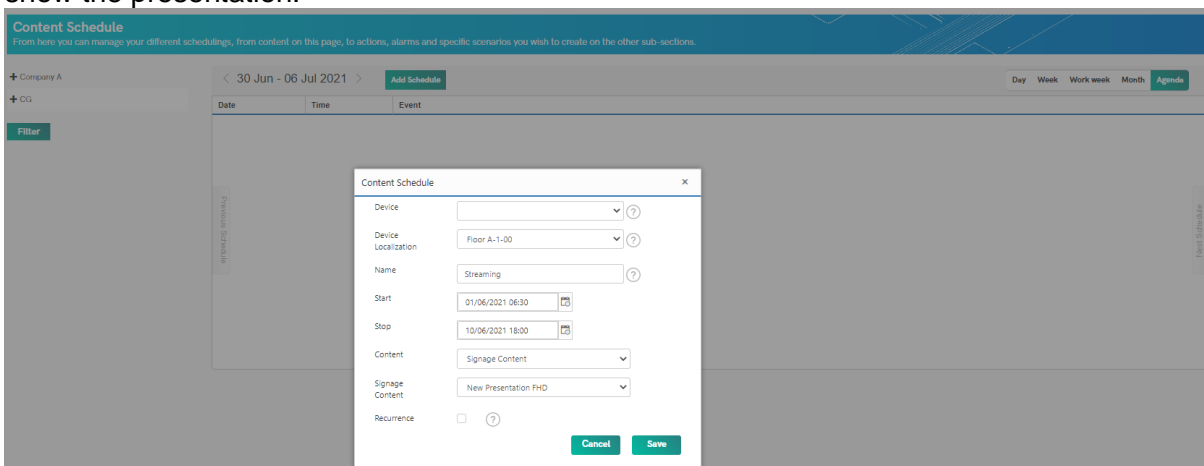
Go to workplace solutions and select “Signage”.



Create a new Presentation or take an existing presentation, select the resolution of your Playlist and press “save”. Add the Playlist by pressing the “+” button and select your playlist. Click on “+”, the playlist will be assigned to the presentation. Press Save.



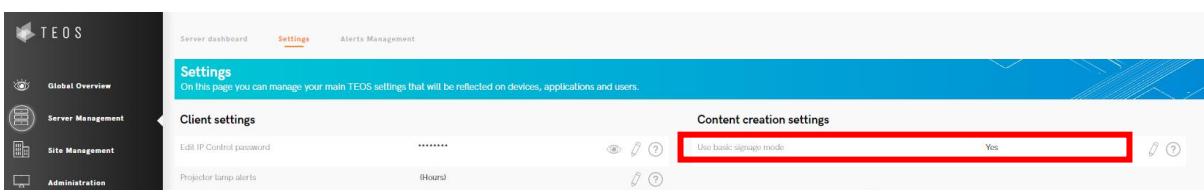
To finish, you can affect the presentation to your device or group of devices under “Schedules & Alarms” and Content Scheduling. Select in the agenda when you want to show the presentation:



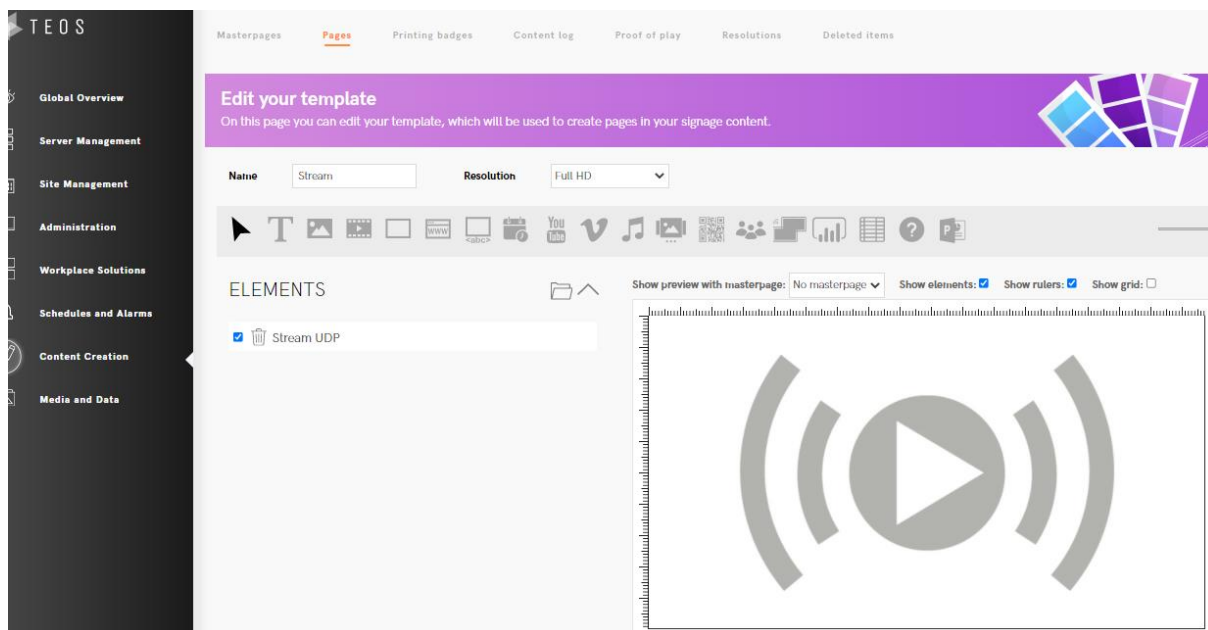
The presentation will be shown by the device at the end of the loop of the device, or you can push the content manually in Administration and pressing the “play” button on the device line.

Basic Signage mode

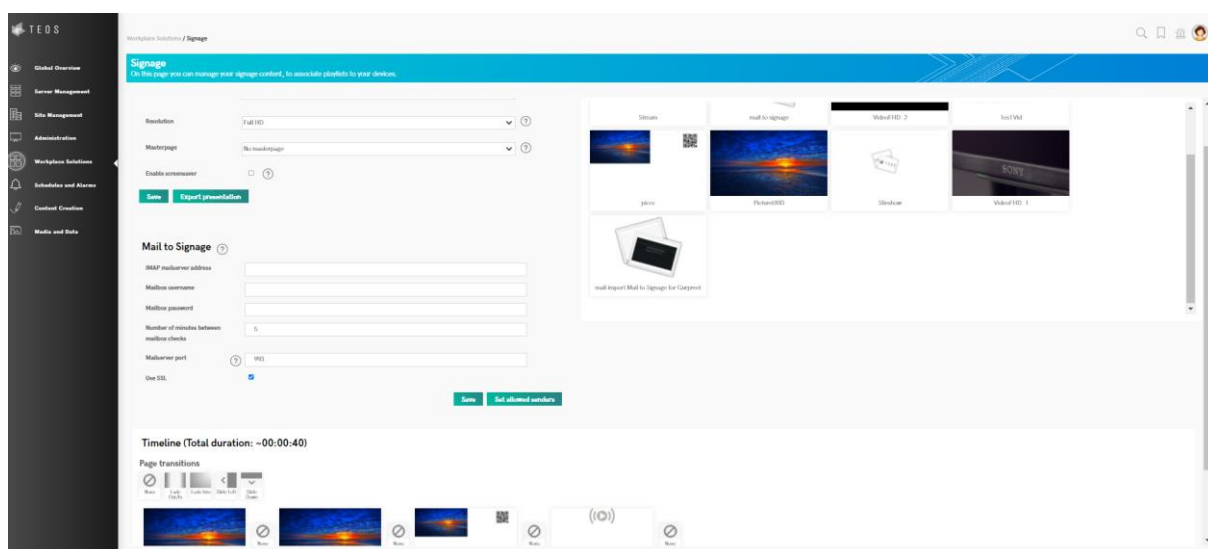
When using the Basic Signage mode, the number of steps is less than in complete mode because there is no need for the user to manage different user rights and different teams for content creation, edition, management etc.



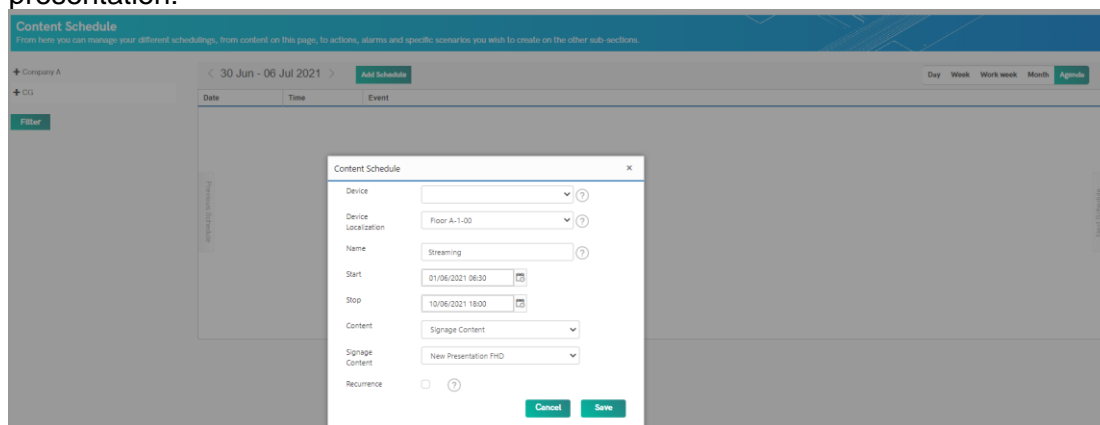
Template and pages merge into one tab “pages” where the template configuration can be done.



Playlist and Signage merge, the playlist can be filled directly from signage tab.

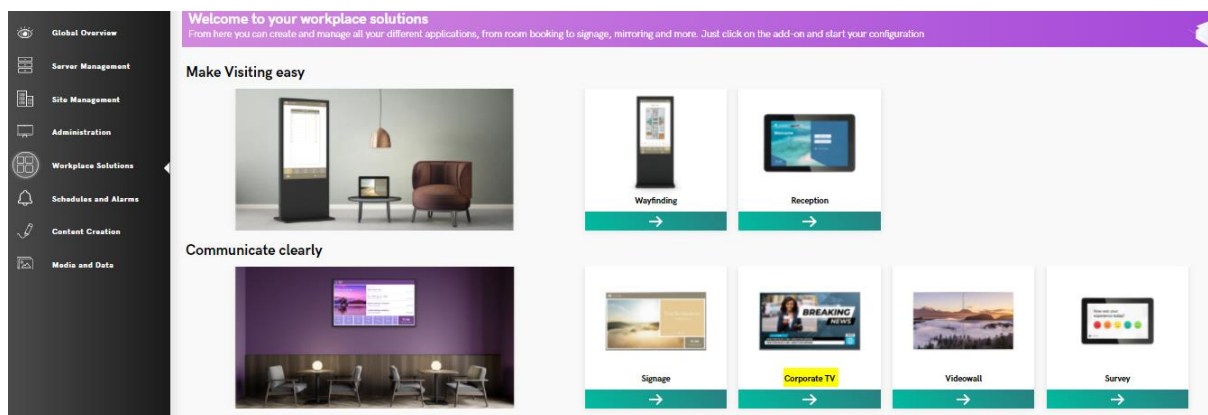


For the content assignment to the devices, the process is the same under Schedules & Alarms” and Content Scheduling. Select in the agenda when you want to show the presentation:

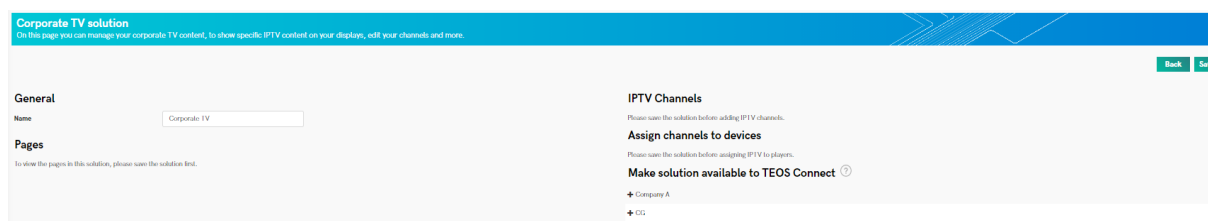


3.2 Creating a Corporate TV configuration

Open your Manage for TEOS interface and go to Workplace Solutions. Open “Corporate TV” and click on “Add new Corporate TV solution”.



Define a name for your Corporate TV solution and press save

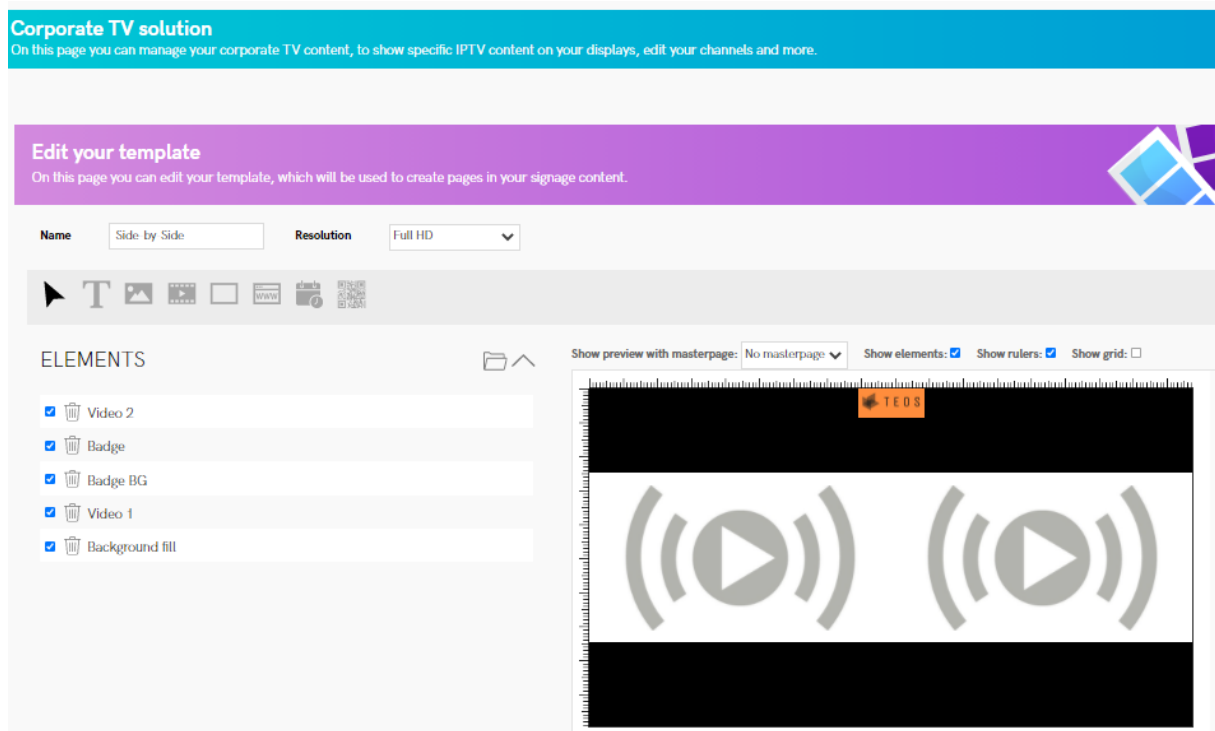


After saving, the default 3 default templates will appear:

- Fullscreen (one stream)
- Picture-in-Picture (two streams)
- Side-by-Side (two streams)



The pages can be customized. To do so, click on the name of one of the pages.



Adding another video or other type of stream (Youtube, Vimeo) is not recommended in this usage. If it is mandatory, we recommend testing the workflow before having it in production.

Add a name, a URL and define if you want your stream to be muted into the section “IPTV Channel”. The position of each channel can be changed in the list or can be removed.

IPTV Channels			
Name	URL	Mute	
Apple	http://qthttp.apple.com.edgesuite.net/1010qwoeiu	<input checked="" type="checkbox"/>	↑ ↓
2	https://bitdash-a.akamaihd.net/content/M1201105	<input type="checkbox"/>	↑ ↓
3	https://bitdash-a.akamaihd.net/content/sintel/hls/	<input type="checkbox"/>	↑ ↓
RTMP	rtmp://fms.105.net/live/rmc1	<input type="checkbox"/>	↑ ↓
Name	URL	<input type="checkbox"/>	+

Assign after the device(s) with your Corporate TV solution and define the template by default that will be shown by the device(s). When Affecting a device into the Corporate TV usage, the device will be configured by default for this purpose, select your device, the page by default and the channel, click on the “+” button to add it.

Assign channels to devices

Device	Page	Channel 1	Channel 2	
GFO Player	Fullscreen	Apple	-	+

The last configuration part in the right part of the GUI will allow you to define what device group link into the user management will be able to access to the control of the device using TEOS Connect Mobile App. Device group configuration must be done under “site

Configuration” in “Site Management”

Make solution available to TEOS Connect ?

- + Dave Company
- + Gurpreet Company
- Guillaume Company
 - Guillaume - Site
 - + Guillaume - Home
 - Guillaume - Office
 - + **Guillaume Office - Floor 01**
 - Guillaume Office - Floor 02

When the configuration is done, press save. Your Corporate TV solution is now ready to be used.

You can go to Administration and in the device selected for the Corporate TV purpose, edit the device and go to signage settings. In Signage settings, you will be able to see if your device is linked with the Corporate TV solution. You will be still able to select a default presentation.

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

General Mirroring Settings **Content Settings** Status Authentication Resources

Content Settings


Content type: Signage display ?


Default presentation: ?

Rooms Status: ?

Device is linked to corporate TV solution: Yes

Proof of play logging: ☐ ?



Press the play button  if you want TEOS to push the content directly into the device.

IPTV channel can be changed under the Corporate TV interface. For that go back to your TV Corporate Solution and remove your device configuration and add it again with your new channels or another layout.

Assign channels to devices				
Device	Page	Channel 1	Channel 2	
Display	Side-by-SideSide-by-Side	Apple	2	
GFO Player	Side-by-SideSide-by-Side	RTMP	Apple	
GFO BRAVIA A9	Picture-in-Picture	3	2	

You can also assign Signage content on top of your Corporate TV add-on by scheduling it into Manage for TEOS interface. For that go to schedules and alarm and assign in your agenda the Signage presentation to your device.

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For more information
visit **pro.sony/TEOS**

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