# Synchronize players

URL: https://docs.grassfish.com/docs/synchronize-players

Archiviert am: 2025-07-17 18:40:14

Synchronize your players to simultaneously play spots on multiple screens. This can be useful, for example, if you want to create a video wall that displays synchronized content across all screens.

Synchronized players can operate in the following ways:

## Synchronized content with different spots

- Each player can play different content.
- The lead player controls the transition from one spot to the next. This means that all synchronized players switch to the next spot at the same time.
- For an optimal viewing experience, all content should be the same length.



## Synchronized content across all screens

- Create the appearance of one "big" spot across multiple screens.
- The individual spots start at the exact same time, controlled by the lead player.
- For an optimal viewing experience, all content should be the same length.



# System requirements and limitations

Ensure that you meet the following system requirements for player synchronization:

# Software Android Player version 11.17.0 or later Linux Player version 11.2 or later Windows Player version 11.2 or later Tizen Player version 11.11.0 or later Your players must be set up in the IXM One. Hardware The performance of the sync depends on the performance of the hardware. You can synchronize players of each technology (Android, Windows, Linux, Tizen) with each other. However, please consider the limitations of each Only Linux and Windows Player 11.15 can be synchronized with Android and Tizen. The synchronized player PCs must be connected in the same local area network (LAN). We don't recommend using a wireless network (WLAN). We have successfully tested synchronization via VPN, but your mileage may vary. Note You can't synchronize Linux and Windows Player version 11.13 with later versions. Limitations Synchronization works with different spot types and IXM One features. However, the following limitations apply: Unsupported spot types Audio Streaming Unsupported features if sync tags are not used on all spots

Spot transition
Playlist priority
Loops
Play only x spots from the playlist
Shuffle playlist

# Synchronize players

You must synchronize the lead player with the followers. You can have any number of followers.

For a seamless playback, we recommend that all synchronized spots have the same length. If not, the synchronized spot playback works in the following ways:

- If a spot on a follower is completed before the lead player has started a new spot, the screen on the follower stays black, displays the playlist background color, or the last frame until there's a new lead spot.
- If a spot on the lead player is completed before a follower has finished playing it, the follower spot is interrupted and the next lead spot starts playing.

# **How to synchronize**

There are different ways to configure the synchronized start of spots: complete synchronization, sync tags, or synchronized spot transition.

## **Complete synchronization**

With this option, the lead player informs the followers about the next spot and when the spot changes, everyone plays the same spot.

This option covers most use cases, but not video walls or special solutions.



## Sync tags

You can assign the same sync tag to the lead spot and all follower spots that should start simultaneously. The sync tag acts as a sender of sync commands on the lead spot, and as a receiver on the follower spots. This allows you to select specific spot to start simultaneously.

With this feature you can easily create a video wall.

#### How it works

- 1. Prior to the spot transition, the lead player sends a 'preload' command with the sync tag to all followers in the sync group.
- 2. The followers preload the spot with the sync tag.
- 3. When the lead player sends the sync command ('PlayNextSpot request), the preloaded spot starts on the follower players.

Note

If you want to use sync tags, you must create them in the IXM One and assign them to the desired spots. For more information, refer to the IXM One webhelp.

## Synchronized spot transition

With this option, the lead player sends a sync command ('PlayNextSpot' request) and the next spot in the playlist starts on the follower players. This allows the simultaneous start of all spots in the sync group. However, you can't select specific spots.

This option is not supported on Tizen.

#### How it works

- 1. Prior to the spot transition, the follower player preloads the next spot in the playlist.
- 2. After playing the current spot, the follower players wait for the lead player's 'Start' command.

# **Configure players**

You must configure the synchronization settings in the IXM One player configuration. The settings are similar across Windows and Linux, Android, and Tizen players, but some players have more settings depending on their capabilities.

## Note

Lead and follower players require different settings. However, you can configure this in the configuration on the player in the same configuration group.

To configure your players, perform the following steps:

- 1. In the IXM One, go to the player configuration or the configuration group:
  - For an individual player, go to **Channels > Location**. Double-click on your player and select **Edit** next to **Configuration** in the **Edit player** window.

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For a configuration group, go to **Administration > Player > Configuration groups** and double-click on the configuration group.

- 2. In the Edit configuration group window, select Display extended modules.
- 3. Under **Modules**, select **Player > Sync**.

Description
Specify the number of the screen that acts at The first screen has number 1.  Default value: -1 (deactivated)  This setting is not available on Tizen Players
Specify the number of the split that acts as le  • If the screen layout contains only one sp  • You can find the split number in the screen Default value: -1 (deactivated)
Select to enable synchronized spot transition  This setting is not required if you only want to  This setting is currently not available on Tize
Select to enable synchronized preload and to  This setting is only available on Android Play
Specify a number of your choice to assign the Default value: -1 (deactivated)
Specify a multicast IP address that the lead pure In general, you can leave the default value.
Specify a UDP port that the lead player uses You can leave the default value if you only ha

disable sync while playing events	Select to disable synchronization while the le In this case, the followers switch to regular synchronization mode.
skip spots with sync tags while sync is inactive	Select to not play spots with sync tags on the The follower ignores all sync commands fro complete. The follower switches back to sync
heartbeat interval for sync communication	Specify in which interval the lead player send The heartbeat is a signal that the lead player In general, you can leave the default value.
heartbeat timeout for sync communication	Specify a timeout after which the synchronization of the synchroniza
sync master priority	Specify a number that determines the probable Default value: 5  This setting is not available on Tizen Players
set sync master election algorithm	Select one of the following algorithms:  • ID-ELECTION: automatically assigns a want to synchronize must be set to ID-E  • MANUAL: synchronized players elect a  We recommend MANUAL for the general use  This setting is not available on Tizen Players
distribute livetags	Select to distribute live tags from the lead pla  This setting is currently not supported on Tize
allow synchronising all spots / enable exact spot sync using spot objects	Select to allow synchronizing all spots in a pl  Note that all players must use the same prog

use spot objects to synchronise

Select to use spot objects to synchronize all an event playlist.

Note that this must be set on all players.

We strongly recommend to use this setting if

This setting is the default on Tizen Players and

- 4. Click Save to save your changes.
- 5. Repeat the configuration steps for all players that you want to synchronize.

