Use media

URL: https://docs.grassfish.com/docs/media-guidelines

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This guideline contains information on supported spot types and recommendations on how to use media in spots.

> *Note*
>
> *For more information on supported spot types and their availability, contact your Grassfish partner.*

Spot types in IXM One

IXM One supports the following spot types:

Spot type	Format	Description
Audio	MP3	**Audio recommendations** • Audio bitrate: 128 kB/sec. • Audio channels: 2 (Stereo) • Audio sample rate: 48 kHz (48,000 H • The recommended bit rate also appl • Higher bitrates may cause the media
Image	JPG PNG GIF	**Image recommendations** • Resolution: 3840 x 2160 px or 1920 • Tizen Player: max. resolution of 192(• You'll achieve the best results when • GIFs achieve a better quality than vi
Video	MP4 (recommended) MOV MKV H.264 WebM	**Video recommendations** • We recommend videos in MP4 form • You'll achieve the best results when

Full HD

All players support full HD resolution.

4K

Whether you can play 4K videos withou
display port) and the video codec. Videos

- Linux (from player version 10.1.1)

- Windows (from player version 10.0.8

- Android (from player version 8.1.0.2)

- Tizen only supports 4K videos withou

Video encoding recommendations

Videos up to 1920 x 1080

- Container: MP4 or MKV

- Codec: H.264

- Format profile: we recommend H.264

- Audio codec: MP3 or AAC

- Audio bitrate: max. 128 kB/sec.

Videos 4K 3840 x 2160

- Container: MP4

- Codec: preferred HEVC, possible H.

- Format profile: high 5.1

- Audio codec: MP3 or AAC

- Audio: 128 kB/sec.

HTML spots	HTML	

Note

Grassfish does not guarantee that c

HTML recommendations

- HTML content must be tested on the

- HTML content (specifically websites)
  the players.

HTML Basic	HTML.ZIP
HTML Wizard	ASC.ZIP
HTML Composer	HTML Composer

Implementing large media files and diffe
sources such as UDC is only possible wi

HTML5 basic spots recommendations

- Simple spots have no embedded vid
- Medium complex spots have embed
- Avoid animations in the first two sec

Standalone HTML Wizard spots recom

- With the HTML Wizard, Grassfish pr
- While there are no technical restricti
  lowest performing hardware of your
- Certain rules apply to the resolution
- The animation type and length influe

Composer spot recommendations

The performance of the HTML Composer

- Number of media, text, and widget e
- Number and complexity of animation
- Possible actions like GoTo (touch) o
- Hardware

In general, there are some elements that

- Requirements on the file format and
- The maximum number of video elem
- The videos should match the size o
  resolution and not the resolution of t
- The video length should not exceed

[*] Philips Android Player with Mstar M9

		Images within the HTML Composer
		• Consider that the number and size o… of animations.
		• The images should match the size o… not the resolution of the display.
		• The number and type of animations…
		• Animations with a higher duration l… engine Greensock for the HTML Cor…
Website spots	Website URL	Depending on the player, it's possible to… whitelist for website spots. In this case, … pages as well.
		Website recommendations
		• Websites must be compatible with th…
		• Only websites supporting iFrames w…
		• The Grassfish website spot supports…
PDF spots	PDF	The system uses open-source libraries to…
		PDF recommendations
		• Specify the correct size when you c… maximum size of 1920 x 1080 px.
		• Inserted media must not exceed the…
		• You must embed fonts as bitmaps to…
		• We recommend testing all PDF spot…
PowerPoint spots	PPT	PowerPoint presentations can only be pla… There are two options to display PowerP… • Microsoft PowerPoint Viewer 2010 (a… • Microsoft PowerPoint 2013 or 2016 (…

UDC		The player can get data from external da...
		it's possible to specify whether data shou...
		An example for this are weather forecast...
		It's also possible to distribute images or ... displayed dynamically.
		Note
		Please contact your Grassfish partn...
Streaming spots	Streaming URL	UDP streams can be played back with th...

Spot types by player

The Grassfish players support the following spot types:

Spot type	Windows and Linux Player*
Image	✓
Video	✓
Audio	✓
Website	✓
HTML Basic	✓
Standalone HTML Wizard	✓
HTML Composer	✓
HTML Wizard in Composer	✓
PDF	✓

* Windows or Linux Player version 11.11 or later

** Android Player version 11.4.7 or later

*** Tizen Player 4.0, 6.5

Screen orientation

Orientation	Description	
Portrait vs. Landscape	**Landscape orientation** All players support the playback of content in landscape format.	
	Portrait orientation Note that some display manufacturers have limitations on specific orientation modes.	
Split screen	Split screen is only supported by the following Grassfish players: • Qt-based Linux (from 10.1.1) • Qt-based Windows (from 10.0.8)	
Multiple screens	Windows or Linux-based players can display two independent screen layouts on two sc Other players only support one screen layout.	
Video wall	The Windows and Linux-based player on Windows and Linux can also be run with more	
	Note *If you have questions about video walls, please contact your Grassfish partner.*	