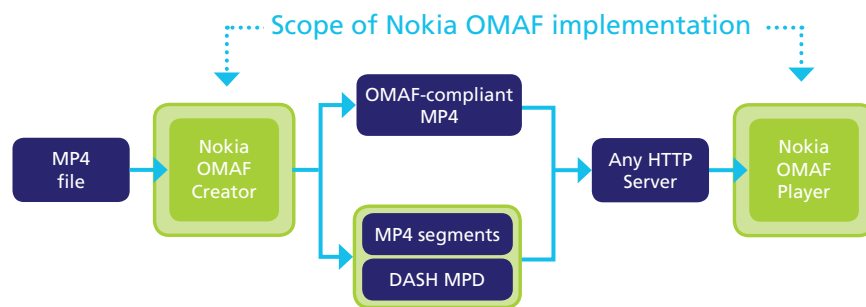


Tools for generation and playback of MPEG-OMAF content



Nokia Public Source Code Release for OMAF

- OMAF Creator: OMAF compliant MP4 & DASH Creator
- OMAF Player: OMAF compliant MP4 & DASH Player



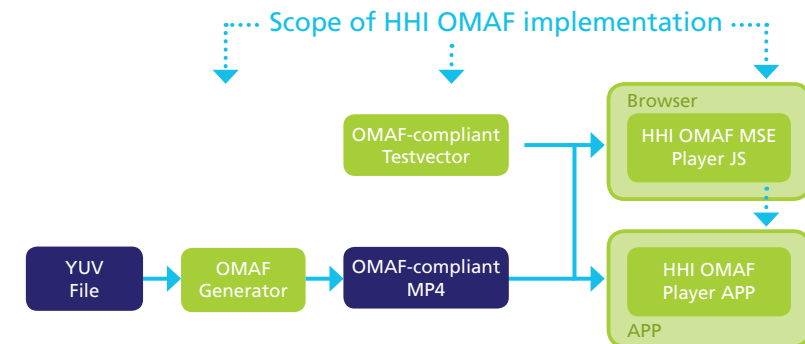
The **OMAF Creator** generates OMAF compliant content and DASH streams:

- OMAF HEVC viewport independent profile mp4 files or DASH streams from 360-degree videos in equirectangular projection
- output is either a single mp4 file, or DASH live profile MPD and segment files, in segment template mode
- supports both OMAF ISOBMFF boxes as well as HEVC omnidirectional video SEI messages

The **OMAF Player** supports playback of OMAF compliant content:

- OMAF HEVC viewport independent profile in both mono and framepacked stereo video modes
- OMAF HEVC viewport dependent profile with multiple qualities with the same resolution
- local mp4 files and DASH based streams
- equirectangular and cubemap projection formats
- DASH Live profile streams

Fraunhofer HHI – Tools for MPEG-OMAF HEVC Tile-based Viewport-Dependent Streaming



Fraunhofer HHI demonstrates tools for testing of MPEG-OMAF Viewport-Dependent Streaming.

- MPEG-OMAF VDP Tile-Based Content Generator (YUV in -> OMAF VDP package out) generates content for MPEG-OMAF compliant tile based streaming
- MPEG-OMAF VDP Tile-Based Test Vectors for OMAF compliant player
- VDP Tile-based offline player (Samsung S7/S8): Android implementation for an offline MPEG-OMAF compliant player
- MSE Playback of OMAF VDP Tile-based content: Javascript player of OMAF files for MSE playback

The generator and the player are also showcased in the "Live End to End Streaming of VR360 10K Video with MPEG-OMAF and HEVC Tiles" Demo at the Fraunhofer booth 8.B80:

<https://www.hhi.fraunhofer.de/en/events/2018/ibc-2018.html>



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Tools are publicly available for download here:

Fraunhofer HHI:
<http://www.hhi.fraunhofer.de/OMAF>

Nokia:
<https://github.com/nokiatech/omaf>

