



DVB-HbbTV Extension to DASH Conformance Software Tool







What is the DVB-HbbTV Conformance Software Tool? LVB HbbTV



- DVB-HbbTV Conformance Software Tool is an extension to DASH-IF Conformance Software
- The tool checks if
 - the provided MPEG-DASH MPD manifest
 - media content (segments) pointed to by the provided manifest
 - conform to DASH-related media specifications.
- Thus, it provides crucial information for content generators and service providers.

Enforce profile(s):



DVB-HbbTV Conformance Software Tool features



- Specifications against which conformance is performed include:
 - MPEG-DASH ISO/IEC 23009-1
 - ISO BMFF ISO/IEC 14496-12
 - DASH-IF IOP 4.1
 - CMAF ISO/IEC 23000-19
- Additionally, DVB-HbbTV Conformance extensions
 - DVB MPEG DASH Profile v1.1.1
 - HbbTV 1.5 Specification



- Checks include:
 - MPEG-DASH MPD validation (XML, DASH schema, and MPEG-DASH MPD rules)
 - Segment Validation (ISO BMFF and MPEG-DASH segment rules)
 - Cross-representation validation (MPEG-DASH cross-representation rules)
 - Live MPD segment access validation
 - Above items for above mentioned specifications

Note: The checks are done till the ISO BMFF level (no checks on track media level)

How to access the DVB-HbbTV Conformance Software Tool?



 Accesible online via DASH-IF https://conformance.dashif.org





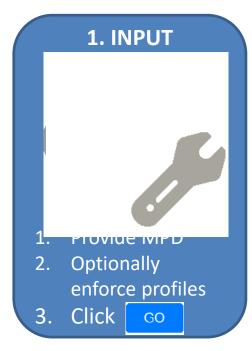


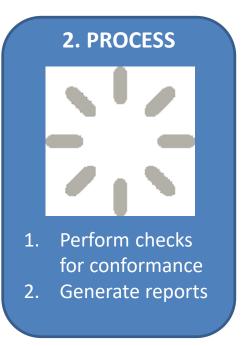
Source code and issue reporting

https://github.com/Dash-Industry-Forum/Conformance-Software

https://github.com/Dash-Industry-Forum/Conformance-and-reference-source













- MPD can be provided through the following ways:
 - URL can be provided if the MPD is located on an accessible server in the text box.
 - If MPD is stored locally, file upload or drag & drop features can be used.



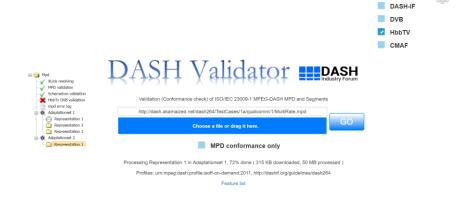
- Optionally enforce profiles for enabling conformance checks for enforced specifications (gear icon on topright).
- Click GO and wait for the results.



Enforce profile(s):

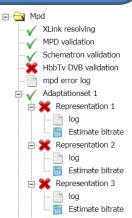


- Conformance checks are performed for the provided MPD and the media content pointed to by this MPD.
- Reports are generated for users to check and analyze.









- Generated reports are provided to users in a tree format on the web interface. Green tick indicates conformance, warning icon indicates conformance with warnings and cancel botton indicates nonconformance.
- User can double click on any report indicated by a file icon to see the results. Reports are color-coded for information, warning, and error messages for easier reading.
- User can report any issue regarding the results and/or software tool by clicking con the bottom of the web interface.



Live Conformance

- When MPD@type = dynamic
 - A link redirecting to live conformance is provided on the web interface.
 - When clicked, Live Conformance opens up on a new tab.
 - Click Start
 - Segment availability start times and segment availability end times will be checked
 - The results will be printed on "Process in detail" panel

