



Adobe® Primetime **Validation Service Error Guide**

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Validation Service Error Guide

This document contains the description of errors reported by Adobe Primetime Stream Validation service when validating HDS and HLS streams.

The validation service complies with Adobe specifications for HDS and HLS. It also ensures that you can play the validated streams on PSDK and other players.

Here is a sample report generated by the Validation tool components:

```
#Version: 1.0
#Software: Adobe HDS Validator Version 3.5.0 Build r89
#Date: 2014-02-10 12:56:38
#Remark: HDS Validation Task Id - EJ9C0A0D84IFPLQ6RLHYXL17V44UAXTG
#Fields: date time x-entry-type x-entry-code x-entry-narration

2014-02-10 19:27:09 Error 30007 "Namespace "http://ns.adobe.com/f4m/2.0" is used in the
<manifest> element of the
manifest file(sample.f4m).
It is not recommended to use this namespace and it is deprecated. Use namespace
"http://ns.adobe.com/f4m/1.0" and
@version attribute with value "2.0" instead."

2014-02-10 19:27:09 Error 30012 "No valid <duration> element found in the manifest file
(sample.f4m).
A valid <duration> element is required if value of the <streamType> element is "recorded". "

2014-02-10 19:27:40 Summary 39006 "Features validated: alternate audio, bootstrapInfo, cueInfo,
dvrInfo, fragments,
manifest(SetLevel), manifest(StreamLevel)."

2014-02-10 19:27:40 Summary 39005 "1 Error(s) and 1 Warnings(s) reported."
```

Each report primarily includes details, such as the software version, date of validation, task id, and other fields, for example:

- Date: Date when the tool started writing entries to the log file
- Time: Time when the tool started writing entries to the log file
- x-entry-type: Log type, for example, info, warning, error
- x-entry-code: Error code for the error
- x-entry-narration: Description of the error

The report summary at the end specifies the number of errors and warnings reported by the tool and the list of features validated.

Validation Error Codes for HDS

The following table provides an exhaustive list of the HDS error codes along with their description.

Error /Warning code	Error Description
20100	Invalid validation parameter(s) specified. Verify whether the name and value of the specified parameter(s) is/are correct.
20101	The source manifest is not specified.

20102	The specified source manifest URL or path is not valid. Check for common URL error and check report for more details. If the HDS Validator is used with disk validation mode, check the source path accessibility and access permissions.
20104	The specified validation start time is greater than or equal to the specified validation end time.
20105	The specified validation start time is greater than the stream duration.
20106	The specified validation end time is greater than the stream duration.
20107	Cannot find the specified configuration file. This error is applicable only to the HDS Validator tool and is associated with the <code>--conf-file</code> parameter. Check the path, name, and access permissions for the configuration file.
20108	Cannot find the specified output path. This error is applicable only to the HDS Validator tool and is associated with the <code>--output-path</code> parameter. Check the path and access permissions for the specified output path.
20109	Cannot find the specified work path. This error is applicable only to the HDS Validator tool and is associated with the <code>--work-path</code> parameter. Check the path and access permissions for the specified work path.
20111	Invalid start time specified for validation
20112	Invalid end time specified for validation. Provide a positive integer value for the validation start time.
20113	The specified validation start time is greater than the current stream time, which is not supported for live streams.
20114	The specified end time offset makes the validation end time less than the start time of stream.
20500	Failed to initialize CURL. This error is applicable only to the HDS Validator tool. Ensure that the tool uses the correct version of the CURL library (see release notes for version details).
20501	An error occurred while fetching HTTP data. This error indicates a failure of the Service/Tool to fetch the stream data from HTTP. See the validation report for details around specific data that is inaccessible. Also check whether the host is reachable and responsive.
21001	An error occurred while opening a validation report file. Check whether the output path and report file are accessible and verify that there aren't any issues regarding access permissions.
21002	Validation is aborted because overwrite permission on destination assets is denied.
21003	The trial period for HDS content validation tool has expired.
21006	An error occurred while writing to the status file.
21007	An error occurred while writing to the report file.
21008	The sub module is not initialized. This error is applicable only to the HDS Validator tool and indicates that the tool might have an internal problem. Contact Adobe for help in troubleshooting the problem. For a quicker resolution, provide the tool logs file.
21009	The specified timestamp is not within the bootstrap boundary. This error is applicable only to the HDS Validator tool and indicates that the tool might have an internal problem. Contact Adobe for help in troubleshooting the problem. For a quicker resolution, provide the tool logs file.
21010	No stream could be validated completely. The error indicates that none of the streams, available in presentation, can be validated. Check the validation report for reported issues, fix the issues, and perform stream validation again.

21011	An error occurred while opening a stream information file. Check whether the output path and stream information file are accessible. In addition, ensure that there are no access permission problems.
21012	Unknown stream validation UID encountered
30000	Failed to fetch the manifest file from server. Check whether the server is accessible and the manifest file is available.
30001	Failed to parse the manifest file. Ensure that the Manifest file is a well-formed xml file. Check the report file for details around possible reasons for parse failure.
30002	Failed to validate the manifest file. This error mostly occurs due to XML structural problems. Check the report file to ascertain the reason of validation failure.
30003	Invalid manifest file extension
30004	Failed to fetch the bootstrap information
30005	Failed to fetch DRM additional header information
30006	The specified namespace in the manifest file is invalid.
30007	The specified namespace in the manifest file is deprecated.
30008	The specified version in the manifest file is invalid.
30009	Validation for the specified version of the manifest file is not supported.
30010	The specified root element name in the manifest file is invalid.
30011	No valid <media> element found in the manifest file
30012	No valid <duration> element found in the manifest file
30013	Invalid <media> element attributes found in the manifest file
30014	An element in the manifest file not implemented for the specified version of the manifest
30015	An element in the manifest file not introduced in Manifest version 2.0
30016	An element in the manifest file introduced in Manifest version 3.0
30017	An element in the manifest file deprecated from Manifest version 2.0 onwards
30018	Multiple elements of same type found in the manifest file. In some cases, this is forbidden.
30019	Multiple elements of the same type with or without the same id present in the manifest file
30020	An unrecognized element found in the manifest file
30021	An unsupported child element specified for an element in the manifest file
30022	A <dvrInfo>/<bootstrapInfo>/<drmAdditionalHeader> element referred by the <media> element not present in the manifest file
30023	Invalid contents present in an element referred by the <media> element in the manifest file
30024	The element specified is recognized but not validated. This error indicates that the user may have to validate these elements manually.
30025	Failed to fetch data for the <dvrInfo>/<bootstrapInfo>/<drmAdditionalHeader> element of the manifest file
30026	The manifest file contains a <dvrInfo>/<bootstrapInfo>/<drmAdditionalHeader> element without embedded data/URL.

30027	The manifest file contains a <dvrInfo>/<bootstrap>/<drmAdditionalHeader> element with embedded data and URL.
30028	An unnecessary element is specified in the manifest file.
30029	An element with invalid value is found in the manifest file.
30030	A <bootstrapInfo> element with invalid data is found in the manifest file.
30031	A <bootstrapInfo> element in the manifest file contains corrupt data.
30032	A <drmAdditionalHeader> element in the manifest file contains corrupt data.
30033	A <drmAdditionalHeader> element in the manifest file contains invalid data.
30034	Invalid stream information in the media presentation
30035	Invalid cue information in the manifest file
30036	A mandatory attribute of an element is missing in the manifest file.
30037	An unnecessary attribute is specified for an element in the manifest file.
30038	The manifest file contains an attribute introduced in Manifest version 2.0.
30039	The manifest file contains an attribute that was introduced in Manifest version 3.0.
30040	The manifest file contains an attribute that has been deprecated from Manifest version 2.0 onwards.
30041	Invalid value found for an element attribute in the manifest file
30042	Mismatch between the first or last timestamps in the bootstrapInfo of multiple streams
30043	Invalid URL
30044	An optional attribute of an element missing in the manifest file.
30045	An unrecognized attribute specified for an element in the manifest file.
30046	The segment number associated with a fragment is inconsistent across MBR streams.
30047	The start timestamp of a fragment is inconsistent across MBR streams.
30048	Duration for a fragment is inconsistent across MBR streams
30049	Missing fragment(s) of a stream available in other MBR stream(s)
30050	Live stream with embedded bootstrap is not supported in SingleLevelManifest
30051	Insufficient overlap with updated bootstrap
30052	Inconsistent fragment(s) found in the updated bootstrap
30053	Inconsistent audio codec found across MBR streams
30054	Inconsistent video codec found across MBR streams
30055	The cue found is not supported as per DPI specifications.
30056	Inconsistent cue information in the refreshed (updated) manifest
30057	An element is missing in the manifest file.
30058	An element found not referred anywhere in the manifest file
30059	Multiple Primary/TrickPlay streams found with the same bitrate

30060	No Primary stream (with matching bitrate) corresponding to a TrickPlay stream
30061	A <cue> element present in one primary MBR stream but missing from another
30062	Data within a <cue> element is inconsistent across primary MBR streams
30063	The number of media elements in the manifest changed after refresh.
30064	Multiple Primary/TrickPlay streams found with the same url/href in the Single/SetLevel Manifest
30065	A <drmAdditionalHeader> element present in an MBR stream but missing from (or invalid within) another
30066	Data within a <drmAdditionalHeader> element is inconsistent across MBR streams.
30500	Failed to fetch the fragment. Check whether the server is accessible and fragment is available. Sometimes validation tool/service may try to fetch a wrong fragment because of an incorrect bootstrap. Re-check the bootstrap if tool doesn't fetch a fragment.
30501	Failed to parse the fragment
30502	Invalid fragment
30503	No media message found in the fragment
30504	A media message contains an out-of-sync timestamp.
30505	An invalid message type is specified in the msg header.
30506	An encrypted message is found in the unencrypted media stream.
30507	Failed to fetch/parse multiple fragments
30508	Trying to fetch a fragment again
30509	A non-key frame Video message found before a key frame Video message
30510	A data message other than onMetadata or onCaptionInfo found in the fragment
30511	No video decoder config present before a video message in the fragment
30512	Multiple video keyframes found in the stream file. This is forbidden for video-keyframe-only streams.
30513	A media message other than video keyframe or video decoder config found in video-keyframe-only stream
30516	An unrecognized onCaptionInfo type found in the media stream file
30517	An invalid onCaptionInfo id found in the media stream file
30518	An invalid onCaptionInfo data found in the media stream file
30519	An unsupported onCaptionInfo type found in the media stream file
30520	Different MBR streams contain key frame(s) with inconsistent timestamp(s) for one of the fragments.
30521	The length of the media message is less than the expected length.
30522	An invalid video decoder configuration message found
30523	An unsupported video decoder configuration message found

30524	A sequence parameter found in the video decoder configuration with an unoptimized parameter
30525	The stream contains onCaptionInfo, but cc_data is missing in h264 sei nalu.
30526	The stream contains cc_data in h264 sei nalu, but onCaptionInfo is missing.
30527	The response time for HTTP request was not suitable for smooth playback.
30528	A header found missing HTTP response
30529	A header found unoptimized in HTTP response
30530	The delta bootstrap is missing in a fragment.
30531	The delta bootstrap in the fragment is inconsistent compared to the bootstrap in manifest.
30532	The codec found in the stream is not supported for HDS.
30533	The codec found in stream is different from that expected
30534	A non-encrypted message found in the encrypted media stream
31000	<baseURL> element is not supported for \"disk\" source mode.
31001	Absolute URLs not supported for \"disk\" source mode
39001	An irrecoverable error occurred. Validation can no longer be performed for the media presentation
39002	An irrecoverable error occurred while validating a stream. Validation can no longer be performed for the stream.
39003	An irrecoverable error occurred while validating a stream level manifest. Validation can no longer be performed for the manifest file and the associated stream.

Validation Error Codes for HLS

The following table provides an exhaustive list of the HLS error codes along with their description.

Error code	Error Description
50001	The playlist tags or tag values are incompatible with the playlist version.
50002	The playlist is ill-formatted or tag sequences do not confirm to a valid playlist.
50003	The sliding view of the playlist is inconsistent with that of the previous sliding window. The Sliding window must be incremental. Remove media segment URIs from the Playlist in the order they appear along with any tags that apply only to these segments. For more details, see sections 6.2.1 and 6.2.2 of pantos draft http://tools.ietf.org/html/draft-pantos-http-live-streaming-11 .
50004	Playlist does not update static parameters, such as version and target duration.
50100	A particular tag is either unrecognized or invalid with respect to the playlist type.
50101	An attribute of the tag is either unrecognized or invalid.
50102	The tag has an invalid value or a value that cannot be parsed.
50103	An attribute of the tag has an invalid value or a value that cannot be parsed.

50104	A duplicate attribute is present in the attribute list of the tag.
50105	Byte range information, for example offset or length is incomplete and undecidable for a particular media file. See section 3.4.1 in pantos draft http://tools.ietf.org/html/draft-pantos-http-live-streaming-11 and check the byte range specifications.
50106	Mandatory information (for example duration) for a particular media file is either missing or incomplete.
50107	Cannot find a mandatory tag with respect to the playlist type
50108	A duplicate tag present with a different value or a tag present at the wrong place
50109	A mandatory attribute of a particular tag is missing.
50200	The URL/file path of a media file, external playlist, or any external content is either invalid or irresolvable.
50201	Unable to read or fetch data of a media file, external playlist, or any external content
50301	Mismatch between the actual duration and the specified duration of media file. Ensure that the actual duration of the media file actual is specified as the value of the EXTINF tag.
50302	Unspecified discontinuity between consecutive media file
50303	The received media file is incomplete.
50304	Stream time roll-over observed. Media file time represented in error/warnings after this will be offset by 2 ³³ .
50305	The value of #EXT-X-PROGRAM-DATE-TIME is not consistent throughout the playlist with the media file start time.
50306	The bandwidth of the received stream data doesn't match with the bandwidth specified in the master playlist.
50307	If the playlist contains #EXT-X-PROGRAM-DATE-TIME tag, it should reappear with the updated value before every segment that has an #EXT-X-DISCONTINUITY tag applied to it.
50308	The Media file duration in the media playlist is either invalid or greater than the target duration.
50401	A duplicate tag present with similar attributes and values in master playlist
50402	Values of multiple attributes of a particular tag are incompatible with each other.
50403	Attribute values of the #EXT-X-STREAM-INF tag identify an invalid external playlist.
50404	Could not identify a valid multi bit rate set in the master playlist
50405	No valid audio or video codec defined for the external playlist
50406	The audio or video codec specified does not conform to standards.
50407	No alternate audio renditions group found for the group id associated with the external playlist
50408	No alternate video renditions group found for the group id associated with the external playlist
50409	Renditions within a group have inconsistent or invalid attribute values.
50410	Multiple groups associated with a multi bit rate set are not consistent with each other.
50411	Multiple PROGRAM-ID representing different presentations found. Not a valid playlist.
50412	None of the audio/video stream codecs specified with the codec attribute of the primary stream tag (EXT-X-STREAM-INF) match the content.

50501	The downloaded external content, for example playlist or media file, is missing Time-to-live information.
50502	The downloaded external content, such as playlist or media file, has an incorrect content type.
50601	Unable to validate the media file
50602	No idr found within the media file. Define at least one key frame in each media file (preferably as the first video frame).
50603	The media file has an invalid transport stream packet(s).
50604	The media file either contains discontinuous video or is missing video packets. Split the media file at the discontinuity into two separate media files in playlist. Mark the discontinuity.
50605	The media file either contains discontinuous audio or is missing audio packets. Split the media file at the discontinuity into two separate media files in playlist. Mark the discontinuity.
50606	The program map table is either undefined or has been changed inconsistently.
50607	The audio stream information (for example, ADTS header in AAC streams) is either undefined or has been changed inconsistently.
50608	The video stream information (for example, SPS/PPS header in H.264 streams) is either undefined or has been changed inconsistently.
50609	Multiple elementary video streams present in the transport media file
50610	A particular media file of the audio and video stream has video gap.
50611	The stream has been identified as audio-only from the master playlist. Apart from audio, it contains additional data.
50612	The stream has been identified as video-only from the master playlist. Apart from video, it contains additional data.
50613	The Media file has data packets that are inconsistent as per the media file URL extension or mime type. For example, a media file with .aac extension has mp3 packets.
50614	Media file content type is either unsupported or unknown. HTTP Content type or file extensions are used to identify the content type.
50615	The byte range of an I-frame segment with an #EXT-X-BYTERANGE tag applied to it cannot include a PAT/PMT. In this case, PAT/PMT must be notified using the #EXT-X-MAP tag introduced in version 5.
50616	The Media file is encrypted as per playlist tags. Cannot validate its contents.
50650	The Media map file has audio/video data other than PAT/PMT. Specifying a proper BYTERANGE that only includes information about PAT/PMT may correct the issue.
50651	The Media file has an unnecessary external map file association. The Media file already contains PAT/PMT.
50652	The Media map file doesn't contain a valid program map table.
50653	A specific #EXT-X-MAP tag is not associated with any media file because of its placement. Ensure #EXT-X-MAP appears after the #EXT-X-DISCONTINUITY tag.
50701	Invalid value of the Cue tag attribute
50702	The value of the Cue tag attribute is changed in the repeated tag with same id. Change in value of this attribute is not allowed.

50703	The Elapsed attribute is missing in repeated cue of the same id.
50704	The specified cue is overlapping with another cue in time
50705	The Cue elapsed time has reduced or is greater than cue duration in simple mode.
50706	The current time of Cue as per time or the elapsed time attribute is less than the stream's current time. The Cue should not appear after the corresponding stream time elapsed.
50707	Validation of CUE of type #EXT-X-CUE-CONT is not supported. Only DPI specifications are supported.
50901	The specified MBR stream in the set failed.
50902	Mismatch in the discontinuities across multiple streams of the multi-bit rate set
50903	Mismatch in the keyframe position across multiple streams of the multi-bit rate set
50904	The Target duration of the stream is different from other streams in the multi-bit rate set.
50905	A particular multi-bit rate stream lags in time with respect to other streams.
50906	Streams in the multi-bit rate set have different playlist property (Live/VOD).
50907	Streams in the multi-bit rate set are not synchronized with the value of the #EXT-X-PROGRAM-DATE-TIME tag and media file time association.
50908	Iframe-only streams have key frames that are not aligned with the primary streams.
50909	Iframe and primary streams are not in sync with the #EXT-X-DISCONTINUITY tags at certain times.
50910	VOD streams in the multi-bit rate set have start times later than that of others possibly due to truncated recording of VOD streams. Ensure that the start times of all VOD streams in multi-bit rate set are the same.
50911	One or more streams in the multi-bit rate set are not encrypted.
51001	The DRM Metadata could not be parsed either because it is an invalid base64 string or it is corrupt.
51002	Invalid #EXT-X-KEY attributes, such as URI, IV, KEYFORMAT, and KEYFORMATVERSION in case METHOD=none
51003	No valid IV as per specifications. IV is either not 16 byte long or is corrupt.
51004	No valid URI or Base64 metadata is defined with the #EXT-X-FAXS-CM tag.
51005	#EXT-X-KEY URI is not a secured URI.
60000	General report information
60001	Summary of errors and warnings
60002	Suppression of the log based on code or description
60003	The provided Validation start and end offsets are out of bound.