

API Updates of 3.1 from 3.0:

1. Add a new DOM API: "app.metadata.deleteMarker".
2. Add a new DOM API: "app.project.deleteAsset".
3. Add "<outputXMP>true|false</outputXMP>" in TranscodeRequest and ConcatenationRequest APIs.

API Definition for Browser Panel

General explanations:

This document describes all messages, send from Premiere / Cottonwood application to a “Browser Panel”. In the following, we call the Premiere / Prelude application “Host application”

A “Browser Panel” is a CSXS panel implementation, which allows the administration of the following “assets”:

1. Clips: A representation of video file
2. The “InOut”-markers of a file, set by Prelude. In the following they are called sub-clips
3. Assemblies (also known as “Rough Cuts”): A collection of sub-clips from different clips

The information about the sub-clips of a clip is send by the “XMP” of the clip. The Browser is responsible for the “parsing” of the XMP, to determine the sub-clips.

The structure information of the Assembly is sent in a defined XML tree, so the Browser does not need to know the XML format of an Assembly file. The Browser can also implement visual representations for its sub-clips.

There is a flag in the Note field of Message with format like Note: [Library], which means the message only exists in Library mode; [Project], which means the message only exists in Project mode; [Library/Project], which means the message exists both in Library and Project Panel mode.

General XML format of messages

All messages contain a <browserID> tag. Each Browser panel implementation has a unique ID, it has to be send to the host application with the initial call. All messages use the same <browserID>. (We do not expect to have multiple Browser panels running in one host application).

All messages contain a <taskID> tag. The task ID is created from the “initializing” call, this can be done on browser side or on host side (e.g. “Import” is initialized from host, “Delete” is initialized from Browser). All messages that belong to the same task use the same <taskId>.

All messages contain a <msgID>. Every message creates its own <msgID>, except the responding “*Status” messages from host to browser, which use the same <msgID> as the responded event. A message from browser to host is called an “event”.

A messages from host to browser is called a “notification”

There are some basic types of messages:

- “Command” messages: They cause an action, but does not have much own action
- “Data” messages: They do have “full file information” (XMP for clips, Assembly structure info for assemblies)
- “Status” messages: They just “answer” another message (having a “result”, using the same <msgID>)

The most complex messages are the “Data” messages, they have information of one or more files (e.g. for Import, or open or save). The “Data” messages are build in two “layers”:

- File Data layer
- Selected Assets layer

The “File Data layer” is a list tag (<assetMediaInfoList>), containing (<assetMediaInfo> tags with the file info (filepath on local disk and XMP) of all used clips and assemblies. It is a “file-based” info list.

The selected Assets layer is a list of all selected assets (<assetItemList>), it contains <assetItem> tags, can represent sub-clips, clips and assemblies. It is a “Browser-based” info list.

The separation is done, because the XMP info is much longer than the rest of the info, and we want to avoid sending it double, if some selected assets use the same file (e.g. two sub-clips).

The most confusing thing in the Asset layer list is the “nested” <assetItemList> in <assetItem> tag, that represents an assembly. This “nested” <assetItemList> contains the complete structure info of the assembly. It allows the connection (via <mediaInfoID>) between sub-clips, used in the assembly and the file-info of the “original” file (in <assetMediaInfoList>).

Currently, we “mask” the XMP content with “<![CDATA[“ ... “]]>”, to avoid problems with special characters.

The tag <rate> is sent for Assemblies in the <assetMediaInfo> section.

API Calls:

1. Message Type: *** com.adobe.browser.event.RegisterBrowser ***

Note: [Library] The browser sends this message after it is initialized properly and ready to receive messages from the host. The "browserID" should match with the extension id in your browser's manifest.xml file:

.

```
<Extension Id="EABROWSER_SOURCE" />
```

XML:

```
<browserMessage>
```

```
  <browserID ID="EABROWSER_SOURCE"/>
```

```

    <msgID ID="c79be1ed-bcaa-42e8-b905-304afede6bd8"/>

    <taskID ID="0e3be1ed-aabc-e842-90b5-ed30 bd84af6"/>

    <initialized>true</initialized>

</browserMessage>

```

2. Message Type: *** com.adobe.host.notification.RegisterBrowserStatus ***

Note: [Library] The host sends this notification to the browser after receiving the "RegisterBrowser" event from the browser. It uses its msgID and taskID.

The message has to contain the host ID, to allow the browser to have different handlings (e.g. for Premiere Pro, we only have a limited Context menu – open and append – and do not support all messages).

The currently known host types are:

- COWO ("Cottonwood"): Full Functionality
- PPRO ("Premiere Pro"): Limited Functionality
- PRLD ("Prelude"): Full Functionality

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="c79be1ed-bcaa-42e8-b905-304afede6bd8"/>

    <taskID ID="0e3be1ed-aabc-e842-90b5-ed30 bd84af6"/>

    <host ID="COWO" />

    <result>OK</result>

</hostNotification>

```

3[not supported in Prelude]. Message Type: *** com.adobe.host.notification.ForceLoadBrowser ***

Note: The host sends this notification every time the user clicks the "Import..." menu item. If the browser is closed and you want to force open it is necessary to add the following xml to the browser manifest.xml:

```

<Lifecycle>

    <AutoVisible>true</AutoVisible>

    <StartOn>

        <Event>com.adobe.host.notification.ForceLoadBrowser</Event>

    </StartOn>

</Lifecycle>

```

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="e09be76d-1cda-77e8-ba85-bd4afede6b07"/>

    <taskID ID="f09be09d-9caf-32ed-a905-4a5afede6627"/>

</hostNotification>

```

4. Message Type: *** com.adobe.browser.event.OpenIngestDialog ***

Note: [Library/Project] The browser sends this message to the host so that the host open the ingest dialog.

The “targetBin ID” is used when user want to ingest to a sub-folder. “targetBin ID” identifies the sub-folder. It is optional if you do not want this.

XML:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="cc98e76d-98da-aae8-4a85-214afede6b03"/>

    <taskID ID="322be09d-6daf-52e4-6505-88e5fede6ad4"/>

    <targetBin ID="cc98e76d-98da-aae8-4a85-214afede6b03"/>

</browserMessage>

```

5. Message Type: *** com.adobe.host.notification.OpenIngestDialogStatus ***

Note: [Library/Project] The host sends this notification as a response to the "OpenIngestDialog" event from the browser. It uses the msgID and tasked from received message.

XML:

```

<hostNotification>

    <browserID>EABROWSER_SOURCE</browserID>

    <msgID ID="cc98e76d-98da-aae8-4a85-214afede6b03"/>

    <taskID ID="322be09d-6daf-52e4-6505-88e5fede6ad4"/>

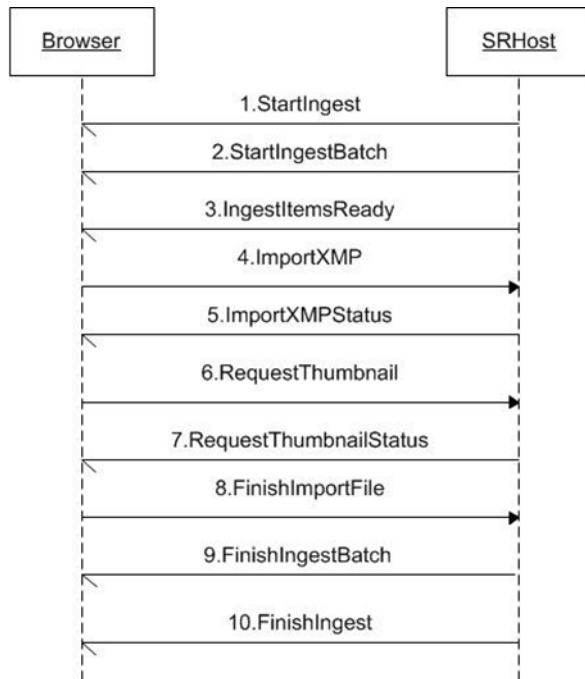
    <result>OK</result>

</hostNotification>

```

General explanations of Ingest workflow:

In Ingest workflow, there are two particular IDs: taskItemID and batchID. One batch Ingest operation means the user opens the Ingest Dialog and selects a bunch of clip to ingest for one time. If this operation is repeated again, each of them is another batch operation regardless if the previous ingest is ongoing. To distinguish the Ingest batch operation, a new API FinishIngestBatch and batchID are introduced in Prelude Ingest workflow. Please see the diagram for the work flow change.



1) Workflow without transcode or copy diagram, e.g. ingest 5 files

- There is only one message for 1.StartIngest, 2.StartIngestBatch, 3.IngestItemsReady, 9.FinishIngestBatch, 10. FinishIngest.
- There are 5 messages for 4.ImportXMP, 5.ImportXMPStatus, 6.RequestThumbnail, 7. RequestThumbnailStatus, 8.FinishImportFile.
- There is only one taskID to identify the ingest task. It is created in StartIngest and ended in FinishIngest.
- There is only one batchID. It is created in IngestItemsReady and ended in FinishIngestBatch. There will be another batchID if user selects some other files to ingest during ingest ongoing.
- There is only one taskItemID. It is created in IngestItemsReady and ended in the 5th

FinishImportFile.

2) Workflow with transcode or copy diagram, e.g. ingest 5 files

- There is only one message for 1.StartIngest, 2.StartIngestBatch, 8.FinishIngestBatch, 9.FinishIngest.
- There are 5 messages for 3.IngestItemsReady, 4.ImportXMP, 5.ImportXMPStatus, 6. RequestThumbnail, 7.RequestThumbnailStatus, 8.FinishImportFile.
- There is only one taskID to identify the ingest task. It is created in StartIngest and ended in FinishIngest.
- There is only one batchID. It is created in the 1st IngestItemsReady and the following 4 IngestItemsReady will use the same batchID. It is ended in FinishIngestBatch. There will be another batchID if user selects some other files to ingest during ingest ongoing.
- There are 5 taskItemIDs. It is created in every IngestItemsReady and ended in every FinishImportFile.

6. Message Type: *** com.adobe.host.notification.StartIngest ***

Note: [Library] The host sends the task id to the browser (before any other ingest action like transcode or copy is done). The browser should always use this task id when sending ingest related messages to the host.

(e.g.

com.adobe.host.event.ImportXMP)

XML:

<hostNotification>

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="c79be1ed-bcaa-42e8-b905-304afede6bd8"/>

<taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

</hostNotification>

7. Message Type: *** com.adobe.host.notification.StartIngestBatch ***

Note: [Library] The host sends the batch id to the browser (before any other ingest action like transcode or copy is done). The browser should always use this batch id when sending ingest related messages to the host.

The “targetBin ID” is used when user want to ingest to a sub-folder. “targetBin ID” identifies the sub-folder. It is optional if you do not want this.

XML:

<hostNotification>

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="c79be1ed-bcaa-42e8-b905-304afede6bd8"/>

```

        <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>
        <targetBin ID="cc98e76d-98da-aae8-4a85-214afede6b03"/>
        <batchID ID="2002688a-6b1e-4494-8d8b-150f792f2619"/>
    </hostNotification>

```

8. Message Type: *** com.adobe.host.notification.IngestItemsReady ***

Note: [Library/Project] The host sends a list of file paths (that are ready for ingest) to the browser.

The message contains the list of files to ingest. To allow a different UI name in Browser, for each file is send the file path and an alias name (to be used in UI). If <aliasName> is empty or omitted, the UI name is the file name (without path).

It is possible, to send multiple IngestItemsReady messages for the same taskID (but with different taskItemID to identify). If so, the job on browser is updated with the new info (add the file list to the file- list, handled on browser).

If we have a minimum metadata dialog, we will fill <customMetadata> tag. If not, this tag can be omitted.

To support folder based clip transferring and rename clip based on user defined rules, the IngestItemsReady message will include media format and extra paths.

When user set in/out points in Ingest dialog, there will be <frameRate>, <startTime> and <duration> tags for that ingestItem. If there are no these tags, then user does not set in/out point and the whole clip is used. The in/out points only affect <startTime> and <duration> in this message, they will NOT affect the clip's start Timecode or duration.

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="f493bad6-d752-4d19-96c3-53febcd3279a"/>

    <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

    <batchID ID=" c4dacda0-5a5e-43a5-85bc-2de16974f74d"/>

    <taskItemID ID="43e4e311-872b-54ab-7326-3ac80922a235"/>

    <ingestItemList>

        <ingestItem>

            <filePath path = "C:\Users\lei.ADOBENET\Desktop\dst\MVI_1135.mxf">

```



```
<aliasName>MVI_1135</aliasName>

<clipFormat>Single</clipFormat>

<frameRate>f25</frameRate>

<startTime>79</startTime>

<duration>93</duration>

</ingestItem>

<ingestItem>

  <filePath path = "D:\XDCAM_EX\BPAV\CLPR\ATVb0287_01\ATVb0287_01.MP4">

    <aliasName>ATVb0287_01</aliasName>

    <clipFormat>XDCAM</clipFormat>

    <frameRate>f30</frameRate>

    <startTime>0</startTime>

    <duration>253</duration>

    <extraPathList>

      <extraPath
        path="D:\XDCAM_EX\BPAV\CLPR\ATVb0287_01\ATVb0287_01M01.XML"
      >

      <extraPath
        path="D:\XDCAM_EX\BPAV\CLPR\ATVb0287_01\ATVb0287_01R01.BIM"
      >

      <extraPath
        path="D:\XDCAM_EX\BPAV\CLPR\ATVb0287_01\ATVb0287_01I01.PPN"
      >

      <extraPath
        path="D:\XDCAM_EX\BPAV\CLPR\ATVb0287_01\ATVb0287_01.SMI">

      <extraPath path="D:\XDCAM_EX\BPAV\MEDIAPRO.XML">

      <extraPath path="D:\XDCAM_EX\BPAV\CUEUP.XML">

    </extraPathList>
```

```

    </ingestItem>

</ingestItemList>

<customMetadata>

    <minimumMetadata>

        <namespace URI="http://ns.cnn.com/xmp/1.0/" prefix="xmpCNN" >

            <slug>New President</slug>

            <source>CNN</source>

            <photoJournalist>David Guetta</photoJournalist>

            ...

        </namespace>

        <keywords>

            <keyword>HotNews</keyword>

        </keywords>

        <storeEmptyInfo>true|false</storeEmptyInfo>

        <applyToAllDestinations>true|false</applyToAllDestinations>

    </minimumMetadata>

</customMetadata>

</hostNotification>

```

9. Message Type: *** com.adobe.browser.event.ImportXMP ***

Note: [Library] The browser requests to import the xmp for a given file path XML:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="dc280ee1-a2a2-49ed-ae8b-05de21f0e512"/>

    <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

    <batchID ID=" c4dacda0-5a5e-43a5-85bc-2de16974f74d"/>

    <taskItemID ID="43e4e311-872b-54ab-7326-3ac80922a235"/>

```

```
<hostNotification>  
  
    <browseID ID="EABROWSER_SOURCE"/>  
  
    <msgID ID="dc280ee1-a2a2-49ed-ae8b-05de21f0e512"/>  
  
    <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>  
  
    <batchID ID=" c4dacda0-5a5e-43a5-85bc-2de16974f74d"/>  
  
    <taskItemID ID="43e4e311-872b-54ab-7326-3ac80922a235"/>  
  
    <assetMediaInfoList>  
  
        <assetMediaInfo>  
  
            <filePath path="D:\Media\XDCAM-HD\Clip\C00<br/></path>" />  
  
            <assetID ID="" />  
  
            <type>masterClip</type>  
  
            <fileMetadata>  
  
                <xmp>  
  
                    <!CDATA[  
  
                        ...  
  
]]>
```

```
        </xmp>

    </fileMetadata>

    <libraryMetadata>

        <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>

        <fileCreationTime>2011-08-15T08:33:51Z</fileCreationTime>

    </libraryMetadata>

</assetMediaInfo>

</assetMediaInfoList>

<result>OK|ERROR</result>

</hostNotification>
```

11. Message Type: *** com.adobe.browser.event.RequestThumbnail ***

Note: [Library] The browser sends a thumbnail render request to the host.

```
<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="492b9d7b-3e98-410c-bca0-8e31358b4e6b"/>

    <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

    <batchID ID=" c4dacda0-5a5e-43a5-85bc-2de16974f74d"/>

    <taskItemID ID="43e4e311-872b-54ab-7326-3ac80922a235"/>

    <thumbnailRequest>

        <assetID>0b0236b3-d89e-4d7f-b7ff-8b4cac1ff93c</assetID>

        <clipPath>D:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF</clipPath>

        <frameRate>f254016000000</frameRate>

        <startTime>0</startTime>

    </thumbnailRequest>

</browserMessage>
```

12. Message Type: *** com.adobe.host.notification.RequestThumbnailStatus ***

Note: [Library] The host sends this notification as a response to the "RequestThumbnail" event from the browser. It uses its msgID. The host sends the path of the rendered thumb to the browser.

XML:

```
<hostNotification>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="492b9d7b-3e98-410c-bca0-8e31358b4e6b"/>

  <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

  <batchID ID=" c4dacda0-5a5e-43a5-85bc-2de16974f74d"/>

  <taskItemID ID="43e4e311-872b-54ab-7326-3ac80922a235"/>

  <thumbnailRequest>

    <assetID>0b0236b3-d89e-4d7f-b7ff-8b4cac1ff93c</assetID>

    <clipPath>D:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF</clipPath>

    <thumbPath>C:\Users\marnold\AppData\Roaming\Adobe\Common\Media Cache
Files\C0001_SC0~394dc295-9582-444f-94d4-6fa2f61dd9f8.jpeg</thumbPath>

    <frameRate>f254016000000</frameRate>

    <startTime>0</startTime>

  </thumbnailRequest>

  <result>OK|ERROR</result>

</hostNotification>
```

13. Message Type: *** com.adobe.browser.event.FinishImportFile ***

Note: [Library] The browser sends the information, which the browser part of the ingesting for a file is completed (or failed: result: ERROR).

XML:

```
<browserMessage>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="ba4dc243-f581-634f-e2d0-3ca2f61ddab5"/>
```

```

<taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

<batchID ID=" c4dacda0-5a5e-43a5-85bc-2de16974f74d"/>

<taskItemID ID="43e4e311-872b-54ab-7326-3ac80922a235"/>

<actionResultList>

    <actionResult>

        <assetID ID="0b0236b3-d89e-4d7f-b7ff-8b4cac1ff93c" />

        <filePath path="D:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF" />

        <result>OK</result>

        <errorMessage></errorMessage>

    </actionResult>

</actionResultList>

</browserMessage>

```

14. Message Type: *** com.adobe.host.notification.FinishIngestBatch ***

Note: [Library] The host sends the info to the browser, when all files in batchID are finished or when ingest is finished by user cancel or other reason.

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE" />

    <msgID ID="75762982-0e90-48bd-9da0-8d8be847ec8b" />

    <taskID ID="a289e6a8-d0e8-45a5-a545-5c6c2f1f1855" />

    <batchID ID="f681c32d-1442-4854-9895-6b6c84549d9f" />

</hostNotification>

```

15. Message Type: *** com.adobe.host.notification.FinishIngest ***

Note: [Library] The host sends the info to the browser, that the ingest task is completed. XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="957f8a31-92c1-46e5-8122-65fe5fd60a62"/>

```

```
<taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>
```

```
</hostNotification>
```

16. Message Type: * com.adobe.host.notification.CancelIngest *****

Note: [Library] The host sends this message to the browser after the cancel button in the host app has been clicked.

The browser cancels the ingest process and cancels sending "com.adobe.browser.event.RequestThumbnail" and "com.adobe.browser.event.ImportXMP" messages. The browser sends no confirmation to host.

XML:

```
<hostNotification>
```

```
  <browserID ID="EABROWSER_SOURCE"/>
```

```
  <msgID ID="1c1dcbb9-96d8-435a-b15f-36c854d6abfa"/>
```

```
  <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>
```

```
</hostNotification>
```

17. Message Type: * com.adobe.host.notification.PauseIngest *****

Note: [Library] The host sends this message to the browser after the pause button in the host app has been clicked. With this message we can pause more than one task, therefore the taskID entries are given in a list. The message has still an own task ID (may identical with one of the paused taskIDs)

The browser pauses the ingest process and doesn't send further "com.adobe.browser.event.RequestThumbnail" and "com.adobe.browser.event.ImportXMP" messages.

XML:

```
<hostNotification>
```

```
  <browserID ID="EABROWSER_SOURCE"/>
```

```
  <msgID ID="0f4426fd-f39a-4bd3-9d9a-16a0969ec69f"/>
```

```
  <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>
```

```
  <taskIDList>
```

```
    <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>
```

```
  </taskIDList>
```

</hostNotification>

18. Message Type: *** com.adobe.host.notification.ResumeIngest ***

Note: [Library] The host sends this message to the browser after the resume button in the host app has been clicked. With this message we can resume more than one task, therefore the taskID entries are given in a list.

The browser continues with the ingest process and continues sending "com.adobe.browser.event.RequestThumbnail" and "com.adobe.browser.event.ImportXMP" messages.

XML:

```
<hostNotification>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="2424d570-252e-4dd2-adea-62033852b127"/>

  <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

  <taskIDList>

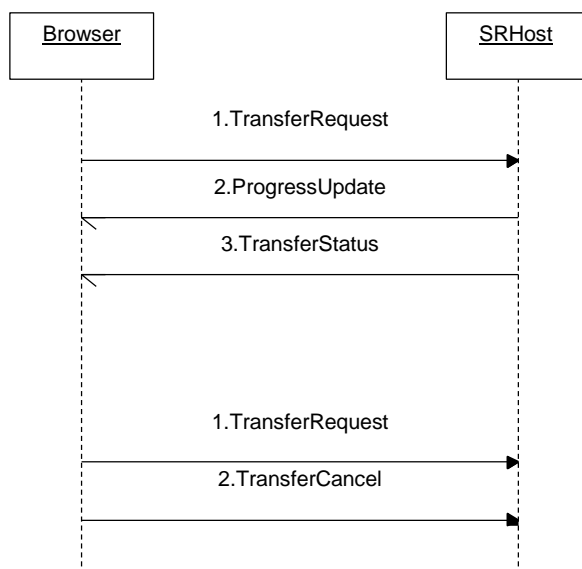
    <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

  </taskIDList>

</hostNotification>
```

General explanations of Transfer workflow:

To support 3rd party to make use transferring function in Prelude, a group of APIs is added for users to transfer media from local one driver to another driver. Please refer to workflow diagram.



19. Message Type: * com.adobe.browser.event.TransferRequest *****

Note: [Library/Project] Library should provide a path list for files to be transferred with source and destination info.

Here is the example of the usage.

```
<transferItem src=" E:\XDCAM HD Wiffle test\Clip\C0003.MXF ", dst=" D:\test\temp.MXF" />
```

When this is transferred, the destination will be D:\test\temp.MXF.

```
<transferItem src="E:\XDCAM HD Wiffle test\Clip\C0003.XML", dstParent="D:\test\" />
```

When this is transferred, the destination will be D:\test\C0003.XML.

```
<transferItem src=" E:\XDCAM HD Wiffle test\General\"", dst=" D:\test\" />
```

When this is transferred, the destination will be D:\test\. It contains all contents in "General".

```
<transferItem src=" E:\XDCAM HD Wiffle test\General\"", dstParent=" D:\test\" />
```

When this is transferred, the destination will be D:\test\General\.

There is a transfer option to allow user to specify whether to overwrite if the destination already exists.
The format is <transferOption>Overwrite</transferOption>.

XML for Transfer to local disk:

```
<browserMessage>
```

```
  <browserID ID="EABROWSER_SOURCE"/>
```

```
  <taskID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>
```

```
  <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>
```

```
  <transferItemList>
```

```
    <transferItem src="D:\Workspace\testmedia\temp.mxf" dst="d:\temp.mxf"/>
```

```
    <transferItem src="D:\Workspace\testmedia\temp.mxf" dstParent="d:\temp"/>
```

```
  </transferItemList>
```

```
  <transferOption>Overwrite</transferOption>
```

```
</browserMessage>
```

XML for Transfer to FTP server:

```
<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <taskID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

    <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

    <transferItemList>

        <transferItem src="D:\Workspace\testmedia\temp.mxf" dst="d:\temp.mxf"/>

        <transferItem src="D:\Workspace\testmedia\temp.mxf" dstParent="d:\temp"/>

    </transferItemList>

    <transferOption>Overwrite</transferOption>

    <transferType>ftp|local</transferType>

    <ftpSetting      ftpServerName="10.162.148.11"      ftpPort="21"      ftpUserName="lei"
    ftpPassword="test"/>

</browserMessage>
```

20. Message Type: *** com.adobe.host.notification.TransferProgress ***

Note: [Library/Project] The progress update is for the whole request. For example, to transfer 20 files, the user can get several progress updates 10%, 30% ... for all the 20 files.

The range is [0, 100]. Only if the transferring begins, progress update will be sent out.

XML:

```
<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="9063fb99-169d-4053-a889-bc0733f1eabc"/>

    <taskID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

    <percentage>10</percentage>

</hostNotification>
```

21. Message Type: *** com.adobe.browser.event.TransferCancel ***

Note: [Library/Project] The cancel request can only cancel a whole transfer request instead of a single path in the transfer path list.

The request to be cancelled should be identified by taskID which is used when Library sends the transfer request. If the Id to be cancelled is invalid, nothing will happen.

XML:

```
<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <taskID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

    <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

</browserMessage>
```

22. Message Type: *** com.adobe.host.notification.TransferStatus ***

Note: [Library/Project] When the transfer is completed or cancelled by Library, the transfer result will be sent out.

There is a total result OK|ERROR|Canceled for the whole request. If the request is canceled, the result is Canceled. If the request is finished, the result is OK or ERROR.

If total result is not OK, the message will contain transferring status OK|ERROR|Canceled for each path. For ERROR|Canceled result there is a message to describe the error. When transfer is done for the path, the result is OK. If transfer is not done for user cancel, the result is Canceled. If transfer is not done for access right, conflict, etc., the result is ERROR.

If the source and destination are same or the destination is a sub-folder in the source, no transfer will happen.

When transfer is ongoing and Prelude is going to quit, there should be a popup in Client to ask user to cancel the transfer. If user cancels, Client need send TransferCancel message to Prelude.

XML:

```
<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="c7f61b43-7c51-4aaf-81e9-b03e72aab200"/>

    <taskID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

    <actionResultList>

        <actionResult>

            <src path="D:\Workspace\testmedia\temp.mxf"/>

            <dst path="d:\temp.mxf"/>

            <result>OK</result>

        </actionResult>

    </actionResultList>

</hostNotification>
```

```

</actionResult>

<actionResult>

    <src path="D:\Workspace\testmedia\temp.mxf"/>

    <dst path="d:\temp"/>

    <result>OK</result>

</actionResult>

</actionResultList>

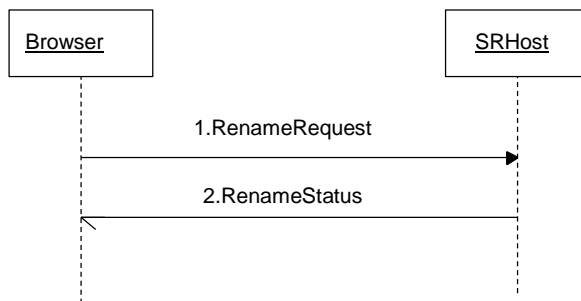
<result>OK</result>

</hostNotification>

```

General explanations of Rename workflow:

To support rename a clip on disk, a group of APIs is added. Please refer to the workflow diagram
Folder based media and spanned clip media may have some issues. For we only rename the
filename, folder based media and spanned clip media may not be recognized when a file is renamed.



23. Message Type: *** com.adobe.browser.event.RenameRequest ***

Note: [Library/Project] Library should provide a path list for files to be renamed with source and new name. Here is the example of the message format. The rename can be done on file or directory.

XML:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <taskID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

    <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

    <renameItemList>

        <renameItem src="D:\Workspace\testmedia\temp.mxf" newName="tmp.mxf"/>

    </renameItemList>

```

</browserMessage>

24. Message Type: *** com.adobe.host.notification.RenameStatus ***

Note: [Library/Project] The result contains rename status OK or ERROR for each path. For ERROR result there is a message to describe the error. When rename is done for the path, the result is OK. If rename is not done (for access right, conflict, etc.), the result is ERROR.

XML:

```
<hostNotification>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="b73ed744-a61e-47d0-8648-bb7d892d0a34"/>

  <taskID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

  <actionResultList>

    <actionResult>

      <src path="D:\Workspace\testmedia\temp.mxf"/>

      <dst path="tmp.mxf"/>

      <result>OK</result>

    </actionResult>

  </actionResultList>

  <result>OK</result>

</hostNotification>
```

***** ID EXPLANATION *****

assetID:

This denotes the unique ID that the Browser uses to identify an item ("server ID").

parentAssetID:

We need this id in case of sub-clips.

For markers the parentAssetID is the assetID of the clip.

For sub-clips in assemblies it's the assetID of the assembly

(For clips and assemblies it is identical with the assetID since they are both parents.)

mediaInfoldID:

We need this in case of assembly sub-clips. It is the assetID of the corresponding clip.

For markers the parentAssetID and the mediaInfoID are identical.

For clips and assemblies all three ids (assetID, parentAssetID, mediaInfoID) are identical.

markerID:

We use this in for sub-clips of a video clip. It contains the GUID of the marker as stored in the XMP of a clip.

clipItemID:

We use this in for sub-clips of an assembly. It contains the GUID of an assembly-entry as given in its file-content XML.

***** Storage on local disk *****

Every browser has two internal settings, to decide, which metadata should be stored on Browser alone and which are stored in local files, too (try to keep Browser info in sync with local files):

- MediaUseLocalFile: If true, changes in XMP are stored in local file. If false: XMP updates are only stored on Browser, the local file remains unchanged.
- RoughCutUseLocalFile: If true, Assembly structures (collection of clip snippets) are stored in local *.xml files. If false the Assembly structure is only stored on Browser (no local representation)

This info is send with all calls, where it is used, to inform the host, what to do.

If set to true in “opening calls”, we “trust the host”: The info (XMP / assembly structure) is read from local file (instead of using the info from Browser)

25. Message Type: * com.adobe.browser.event.OpenAsset *****

Note: [Library] The browser sends this message to the host to open a clip or assembly. For an assembly we send the info of all used clips in the <assetMediaInfoList> and the structure info in a “nested” <assetItemList>.

Ensure, that all used <mediaInfoID> IDs in <assetItemList> has are defined as an <assetID> in <assetMediaInfoList>.

If mediaUseLocalFile or roughCutUseLocalFile is send, the host does not use the send Browser info, but read the info (XMP / assembly structure) from local file.

When the entry <roughCutUseLocalFile>true|false</roughCutUseLocalFile> is false, the filePath for rough cut in OpenAsset message must be a valid path. The path can be non-existed, but it must be a valid path.

XML for a clip:

```
<browserMessage>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="51ebe534-1d33-ebd8-89fb-54c826ce2fe1"/>

  <taskID ID="44ebe5ec-9934-5bd7-ea56-27c826ce2a07"/>

  <assetMediaInfoList>

    <assetMediaInfo>

      <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

      <assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

      <type>masterClip</type>

      <aliasName>Summer</aliasName>

      <fileMetadata>

        <xmp>

          <![CDATA[

            ...

          ]]>

        </xmp>

      </fileMetadata>

    </assetMediaInfo>

  </assetMediaInfoList>

  <assetItemList>

    <assetItem order="1">

      <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

      <mediaInfoID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

      <parentAssetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

      <assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

      <name>C0004.MXF</name>

      <type>masterClip</type>
```

```
</assetItemList>

<mediaUseLocalFile>true</mediaUseLocalFile>

</browserMessage>
```

```
<browserMessage>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="e1edc79b-2e48-b13a-7e05-e4a6fede6b0b"/>

  <taskID ID="3d77a90e-55d2-820a-18a4-e364c00ea3b2"/>

  <assetMediaInfoList>

    <assetMediaInfo>

      <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"/>

      <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

      <type>roughCut</type>

      <aliasName>Test</aliasName>

      <rate>

        <timebase>24</timebase>

        <ntsc>TRUE</ntsc>

      </rate>

      <fileMetadata>

        <xmp>

          <![CDATA[

            ...

          ]]>

        </xmp>

      </fileMetadata>

    </assetMediaInfo>

  </assetMediaInfoList>

</browserMessage>
```



```

        </fileMetadata>
    </assetMediaInfo>
    <assetMediaInfo>
        <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>
        <assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>
        <type>masterClip</type>
        <aliasName>Harbor</aliasName>
        <fileMetadata>
            <xmp>
                <![CDATA[
                    ...
                ]]>
            </xmp>
        </fileMetadata>
    </assetMediaInfo>
    <assetMediaInfo>
        <filePath path="E:\Test\CARD
01\BPAV\CLPR\ATVb0284_01\ATVb0284_01.MP4"/>
        <assetID ID="30c0d333-ed92-42b1-b4f4-1b92960486ee"/>
        <type>masterClip</type>
        <aliasName>Seaside</aliasName>
        <fileMetadata>
            <xmp>
                <![CDATA[
                    ...
                ]]>
            </xmp>
        </fileMetadata>
    </assetMediaInfo>

```

```

        </assetMediaInfo>

    </assetMediaInfoList>

    <assetItemList>

        <assetItem order="1">

            <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"/>

            <mediaInfoID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

            <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

            <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

            <name>Test.xml</name>

            <type>roughCut</type>

            <assetItemList>

                <assetItem order="1">

                    <filePath path="C:\Media\XDCAM HD Seattle B-
roll\Clip\C0004.MXF" />

                    <mediaInfoID ID="cb3be534-1da7-4488-affb-210826ce2fe1" />

                    <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"
/>

                    <assetID ID="799fdca8-8dc5-4056-8195-3c3e44923ae1" />

                    <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />

                    <frameRate>f254016000000</frameRate>

                    <startTime>1923976454400</startTime>

                    <duration>11679469401600</duration>

                    <name>Subclip_01</name>

                    <type>subClip</type>

                </assetItem>

                <assetItem order="2">

                    <filePath path="E:\Test\CARD
01\BPAV\CLPR\ATVb0284_01\ATVb0284_01.MP4" />

```

```

        <mediaInfoID ID="30c0d333-ed92-42b1-b4f4-1b92960486ee"
/>

        <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"
/>

        <assetID ID="42c8eec5-09e7-4210-a071-ba3712b0c8df" />

        <frameRate>f254016000000</frameRate>

        <startTime>2881726848000</startTime>

        <duration>10721719008000</duration>

        <name>Subclip_02</name>

        <type>subClip</type>

    </assetItem>

</assetItemList>

</assetItem>

</assetItemList>

    <roughCutUseLocalFile>true</roughCutUseLocalFile>

</browserMessage>

```

26. Message Type: *** com.adobe.host.notification.OpenAssetStatus ***

Note: [Library] The host sends this message to the browser as a response to the "com.adobe.browser.event.OpenAsset" message.

The result list contains one entry for each top level asset Item.

XML for a clip:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="51ebe534-1d33-ebd8-89fb-54c826ce2fe1"/>

    <taskID ID="44ebe5ec-9934-5bd7-ea56-27c826ce2a07"/>

    <actionResultList>

```

```

        <actionResult>

            <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

            <assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

            <result>OK</result>

            <errorMessage></errorMessage>

        </actionResult>

    </actionResultList>

    <result>OK</result>

</hostNotification>

```

27. Message Type: *** com.adobe.host.notification.CreateRoughCut ***

Note: [Library] The host sends this message to the browser after the global "Create Assembly..." menu item has been clicked resp. the "Ctrl-N" short-cut has been applied.

The browser responds with a "com.adobe.browser.event.CreateRoughCut" message and decides if a local file should be used for the new assembly or not.

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="8394e188-0990-f2ea-190c-211af5de6321"/>

    <taskID ID="0e3be1ed-aabc-e842-90b5-ed30 bd84af7"/>

</hostNotification>

```

28. Message Type: *** com.adobe.browser.event.CreateRoughCut ***

Note: [Library] The browser sends this message:

- As a response to a "com.adobe.host.notification.CreateRoughCut" from the host, if so, use its taskID.

- User clicked e.g. a "New Assembly..." context menu item in the browser, creates a new taskID. The entry <roughCutUseLocalFile>true|false</roughCutUseLocalFile> decides if a local file should be used for the new assembly or not.

There is a <filePath path=""> field in the message. When roughCutUseLocalFile is true, the file path will be used as rough cut file path. When roughCutUseLocalFile is false, the file path will be rough cut name. When roughCutUseLocalFile is true, the file path can be omitted. If omitted, Host will pop up path

selection dialog. When roughCutUseLocalFile is false, the file path cannot be omitted.

The "targetBin ID" is used when user want to create to a sub-folder. "targetBin ID" identifies the sub-folder. It is optional if you do not want this.

XML:

```
<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="c79be1ed-bcaa-42e8-b905-304afede6bd9"/>

    <taskID ID="0e3be1ed-aabc-e842-90b5-ed30 bd84af7"/>

    <targetBin ID="cc98e76d-98da-aae8-4a85-214afede6b03"/>

    <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

    <roughCutUseLocalFile>true</roughCutUseLocalFile>

</browserMessage>
```

29. Message Type: * com.adobe.host.notification.CreateRoughCutStatus *****

Note: [Library] The host sends this message to the browser as a response to a "com.adobe.browser.event.CreateRoughCut" message.

- If <roughCutUseLocalFile>true</roughCutUseLocalFile> was send in "com.adobe.browser.event.CreateRoughCut":

The host displays a "choose file dialog". After a file has been chosen, default content for the new assembly will be written into the file.

The sequence rate is send with tag <rate> and the chosen file location in the tag <filePath>.

- If <roughCutUseLocalFile>>false</roughCutUseLocalFile> was send:

The host doesn't display a dialog. Since we don't want to use a local the "filePath" tag and the <libraryMetadata> section are empty. The default sequence rate is sent in contained in tag <rate>.

The "targetBin ID" is used when user want to create to a sub-folder. "targetBin ID" identifies the sub-folder. It is optional if you do not want this.

XML:

```
<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="c79be1ed-bcaa-42e8-b905-304afede6bd9"/>
```

```

<taskID ID="0e3be1ed-aabc-e842-90b5-ed30 bd84af7"/>

<assetMediaInfoList>

    <assetMediaInfo>

        <filePath
        path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"
        />

        <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <type>roughCut</type>

        <rate>

            <timebase>24</timebase>

            <ntsc>TRUE</ntsc>

        </rate>

        <libraryMetadata>

            <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>

            <fileCreationTime>2011-08-15T08:33:51Z</fileCreationTime>

        </libraryMetadata>

    </assetMediaInfo>

</assetMediaInfoList>

<targetBin ID="cc98e76d-98da-aae8-4a85-214afede6b03"/>

<result>OK</result>

</hostNotification>

```

30. Message Type: *** com.adobe.host.notification.CloseAsset ***

Note: [Library] The host sends this message to the browser, if a clip or assembly is closed in timeline (and it is not dirty or the save dialog is cancelled).

It does not contain an <assetMediaInfoList>, because nothing is saved.

XML:

```
<hostNotification>
```

```

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="df43c47c-8971-419f-a23f-9effb9efdecf"/>

<taskID ID="5f31281f-3658-4ede-a659-a28be11fbd23"/>

<assetItemList>

    <assetItem order="1">

        <filePath
path="C:\Users\marnold.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml" />

        <mediaInfoID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <name>RRR.xml</name>

        <type>roughCut</type>

    </assetItem>

</assetItemList>

</hostNotification>

```

Remarks:

If closing a clip, use <type>masterClip</type> instead of “roughCut”.

The tags <mediaInfoID> and <parentAssetID> are always set to the same value as <assetID>

The Message normally does not contain more than one <assetItem>.

31. Message Type: *** com.adobe.host.notification.SaveAsset ***

Note: [Library/Project] The host sends this message to the browser, if a clip or assembly is saved. The Message normally does not contain more than one <assetItem>.

For assemblies, we currently do not send the <assetMediaInfo> for all the used assets in the assembly, because we expect them already to be on Browser. So the <mediaInfoID> for the <assetItems> in nested

<assetItemList> are not resolved in this message, but they should be resolvable in Browser. (Maybe we will change this and add all used files like in OpenAssets message)

The Message normally does not contain more than one <assetItem>.

The tag <changePath> is used to handle a different XMP history storage file. It will be send back with the call "com.adobe.browser.event.WriteXMPToDisk" (if internal setting mediaUseLocalFile: true, else it is ignored). Default the path is set empty.

In the Prelude host, the SaveAsset is send without saving the file to local disk. The browser decides (by its internal mediaUseLocalFile setting for clip or roughCutUseLocalFile setting for roughCut), if he wants to save it to disk. If so, a WriteXMPToDisk message for clip or a WriteRoughCutToDisk is for assembly is send after the server update.

In Prelude host, we send the SaveAsset after saving to disk. So no WriteXMPToDisk message (or WriteRoughCutToDisk) is send after the SaveAsset call. (Prelude host does only support the "use local file": true workflow).

XML for a clip:

<hostNotification>

 <browserID ID="EABROWSER_SOURCE" />

 <msgID ID="e148e60d-0132-4d4d-b7ae-bee35a956e61" />

 <taskID ID="049eda6a-2fb9-4a38-9626-5b56d8c3c451" />

 <assetMediaInfoList>

 <assetMediaInfo>

 <filePath path="D:\movies\Three.MP4" />

 <assetID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99" />

 <type>masterClip</type>

 <changePath path="C:\Temp\Storage.xml" />

 <fileMetadata>

 <xmp><![CDATA[...]]></xmp>

 </fileMetadata>

 <libraryMetadata>

<fileLastModificationTime>2011-09-22T16:01:51Z</fileLastModificationTime>

<fileCreationTime>2010-10-05T17:17:20Z</fileCreationTime>

</libraryMetadata>

</assetMediaInfo>

</assetMediaInfoList>

</hostNotification>

XML for an assembly:

<hostNotification>

<browserID ID="EABROWSER_SOURCE" />

<msgID ID="efd53f63-9779-465c-86a4-60a380f56a02" />

<taskID ID="de2be5cf-58bd-45cd-948b-5cdec2707535" />

<assetMediaInfoList>

<assetMediaInfo>

<filePath

path="C:\Users\marnold.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml" />

<assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

<type>roughCut</type>

<rate>

<timebase>24</timebase>

<ntsc>TRUE</ntsc>

</rate>

<changePath path="C:\Temp\Storage.xml" />

<fileMetadata>

<xmp><![CDATA[...]]></xmp>

</fileMetadata>

```

        <libraryMetadata>

            <fileLastModificationTime>2011-09-
            22T16:01:51Z</fileLastModificationTime>

            <fileCreationTime>2011-08-30T08:52:44Z</fileCreationTime>

        </libraryMetadata>

    </assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

    <assetItem order="1" >

        <filePath
path="C:\Users\marnold.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml" />

        <mediaInfoID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <type>roughCut</type>

    <assetItemList>

        <assetItem order="1" >

            <filePath path="D:\movies\Hellboy II.mov" />

            <mediaInfoID ID="1f75e31e-f98c-4382-88f4-fac69b6f9514" />

            <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"

/>

            <assetID ID="3d90b27d-ee5c-460d-a294-7705aa9bfa97" />

            <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />

            <startTime>19631764152000</startTime>

            <duration>1758700944000</duration>

            <name>Hells Kitchen</name>

            <type>subClip</type>

```

```

        </assetItem>
        <assetItem order="2" >
            <filePath path="D:\movies\Three.MP4" />
            <mediaInfoID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99" />
            <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"
/>

            <assetID ID="e05e197a-5764-40b6-b599-02d77aee645a" />
            <frameRate>f254016000000</frameRate>
            <startTime>6070696632000</startTime>
            <duration>953512560000</duration>
            <name>Teiko</name>
            <type>subClip</type>
        </assetItem>
    </assetItemList>
</assetItem>
</assetItemList>
</hostNotification>

```

32. Message Type: *** com.adobe.browser.event.SaveAssetStatus ***

Note: [Library] The browser sends this message to the host, as a result of the SaveAsset message. It uses the same taskID and msgID.

For each saved file, we send a result. If errors occur, we can send an additional tag <errorMessage>

XML:

```

<browserMessage>
    <browserID ID="EABROWSER_SOURCE"/>
    <msgID ID="e148e60d-0132-4d4d-b7ae-bee35a956e61" />

```

```

<taskID ID="049eda6a-2fb9-4a38-9626-5b56d8c3c451" />

<actionResultList>

    <actionResult>

        <assetID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99" />

        <filePath path="D:\movies\Three.MP4" />

        <result>OK|ERROR </result>

        <errorMessage></errorMessage>

    </actionResult>

</actionResultList>

</browserMessage>

```

33. Message Type: *** com.adobe.browser.event.DeleteAsset ***

Note: [Library] The browser sends this message to the host, if entries are removed in Browser. Removing a clip will remove all sub-clips in Browser as well.

We send the XMP info of all affected files in assetMediaInfoList. The info is only used, if we remove sub-clips, without removing the parent.

We send the removed assets (sub-clips as well as clips and assemblies) in a “plain” assetItemList. (No need to send the “nested” assembly structure info). This list should not contain sub-clips of parents, that are also removed. Only sub-clips that should be removed from a parent should be send with this list. The message has a special option <deleteOnDisk>, to delete all completely removed files (clips and assemblies in assetItemList) on local disk.

If sub-clips should be removed, without removing the parent itself, the host will update the send XMP (or the XMP, read from local file, if mediaUseLocalFile is true) of the related clip.

The result of the XMP updates (removing sub-clips) will be send back to browser with a “com.adobe.host.notification.SaveAsset” calls for each updated file.

This example contains one clip and one sub-clip (from another clip) to remove, therefore it contains two entries in assetMediaInfoList (the clip to remove and the parent of the sub-clip to remove) and two entries in assetItemList (the clip and the sub-clip to remove).

XML:

<browserMessage>

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="e09be76d-1cda-77e8-ba85-bd4afede6b08"/>

<taskID ID="f09be09d-9caf-32ed-a905-4a5afede6626"/>

<assetMediaInfoList>

<assetMediaInfo>

<filePath path="D:\movies\Two.MP4"/>

<assetID ID="209c2667-500f-44e7-abcd-08c7fc6e3627"/>

<type>masterClip</type>

<fileMetadata>

<xmp><![CDATA[...]]></xmp>

</fileMetadata>

</assetMediaInfo>

<assetMediaInfo>

<filePath path="D:\movies\Three.MP4"/>

<assetID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99"/>

<type>masterClip</type>

<fileMetadata>

<xmp><![CDATA[...]]></xmp>

</fileMetadata>

</assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

<assetItem order="1">

<assetID ID="209c2667-500f-44e7-abcd-08c7fc6e3627"/>

```

        <mediaInfoID ID="209c2667-500f-44e7-abcd-08c7fc6e3627"/>
        <parentAssetID ID="209c2667-500f-44e7-abcd-08c7fc6e3627"/>
        <filePath path="D:\movies\Two.MP4"/>
        <name>Two.MP4</name>
        <type>masterClip</type>
    </assetItem>

    <assetItem order="2">
        <filePath path="D:\movies\Three.MP4"/>
        <mediaInfoID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99"/>
        <parentAssetID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99"/>
        <assetID ID="554cbf1b-6c2a-4582-aab7-3aeafb8bcb9f"/>
        <markerID ID="729ec034-ae80-48b8-9f2e-6f91959de0b0"/>
        <name>Tuareg</name>
        <type>subClip</type>
        <frameRate>f254016000000</frameRate>
        <startTime>10308530232000</startTime>
        <duration>964107144000</duration>
    </assetItem>
</assetItemList>

<mediaUseLocalFile>true</mediaUseLocalFile>

<deleteOnDisk>false</deleteOnDisk>

</browserMessage>

```

34. Message Type: *** com.adobe.host.notification.DeleteAssetStatus ***

Note: [Library] The host sends this message to the browser as a response to a "com.adobe.browser.event.DeleteAsset" message.

The taskID and msgID are the same as in DeleteAsset message.

The result list contains one entry for each entry in the assetItemList, send in DeleteAsset message. For sub-clips, the path of the parent and the assetID of the sub-clip is send.

XML:

<hostNotification>

 <browserID ID="EABROWSER_SOURCE" />

 <msgID ID="e09be76d-1cda-77e8-ba85-bd4afede6b08"/>

 <taskID ID="f09be09d-9caf-32ed-a905-4a5afede6626"/>

 <result>OK</result>

 <actionResultList>

 <actionResult>

 <assetID ID="209c2667-500f-44e7-abcd-08c7fc6e3627" />

 <filePath path="D:\movies\Two.MP4" />

 <result>OK</result>

 <errorMessage></errorMessage>

 </actionResult>

 <actionResult>

 <assetID ID="554cbf1b-6c2a-4582-aab7-3aeafb8bcb9f" />

 <filePath path="D:\movies\Three.MP4" />

 <result>OK</result>

 <errorMessage></errorMessage>

 </actionResult>

 </actionResultList>

</hostNotification>

35. Message Type: *** com.adobe.host.notification.AppendClips ***

Note: [Library] The host sends this message to the browser to trigger the Append Clips action. It is sent if the

Menu “File – Append to Assembly” is selected.

XML

```
<hostNotification>
```

```
    <browserID ID="EABROWSER_SOURCE" />
```

```
    <msgID ID="3cc43fa2-e326-4c6c-8500-ac33f87c6170" />
```

```
    <taskID ID="6f192ee9-7f7a-49a7-b380-8fe7af306729" />
```

```
</hostNotification>
```

36. Message Type: *** com.adobe.browser.event.AppendClips ***

Note: [Library] The browser sends this message to the host. This can be done as a reaction to the "com.adobe.host.notification.AppendClips" message from host (if so, use its taskID), or by a “Browser-internal” action (e.g. a context menu selection, if so, create a new taskID). This is a “Data message”

The example XML adds a sub-clip to assembly (notice the file info for the clip in <assetMediaInfoList> and the sub-clip (marker) info in the <assetItemList>).

The <assetItemList> should only contain assets with type “subClip” or “masterClip”. We can’t add assets of type “roughCut” to an Assembly.

The sub-clip contains specific tags:

<markerID>: The GUID of the marker, used to recognize it on Host (Premiere code)

<frameRate>: Given frame rate

<startTime>: Start time of the marker within the clip (matching to frameRate)

<duration>: Length of the marker (matching to frameRate).

The event has the option <mediaUseLocalFile>. If set to true, the XMP, read from local file is used instead of the send XMP.

The order in the <assetItem> tags denotes the order, in which the assets should be added to assembly (Not fully supported in our Prelude code yet). XML:

<browserMessage>

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="7826ecd4-1fd8-5c36-f9f2-ab4d5f56fc34"/>

<taskID ID="6f192ee9-7f7a-49a7-b380-8fe7af306729"/>

<assetMediaInfoList>

<assetMediaInfo>

<filePath path="D:\movies\Three.MP4"/>

<assetID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99"/>

<type>masterClip</type>

<aliasName>Mountain View</aliasName>

<fileMetadata>

<xmp><![CDATA[...]]></xmp>

</fileMetadata>

</assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

<assetItem order="1">

<filePath path="D:\movies\Three.MP4"/>

<mediaInfoID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99"/>

<parentAssetID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99"/>

<assetID ID="554cbf1b-6c2a-4582-aab7-3aeafb8bcb9f"/>

<markerID ID="729ec034-ae80-48b8-9f2e-6f91959de0b0"/>

<name>Tuareg</name>

<type>subClip</type>

<frameRate>f254016000000</frameRate>

```

        <startTime>10308530232000</startTime>

        <duration>964107144000</duration>

    </assetItem>

</assetItemList>

    <mediaUseLocalFile>true</mediaUseLocalFile>

</browserMessage>

```

37. Message Type: *** com.adobe.host.notification.AppendClipsStatus ***

Note: [Library] The host sends this message to the browser as a response to a "com.adobe.browser.event.AppendClips" message.

The result list contains an entry for each entry in the assetItemList (like in "com.adobe.host.notification.DeleteAssetStatus").

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE" />

    <msgID ID="7826ecd4-1fd8-5c36-f9f2-ab4d5f56fc34" />

    <taskID ID="6f192ee9-7f7a-49a7-b380-8fe7af306729" />

    <result>OK</result>

    <actionResultList>

        <actionResult>

            <filePath path="D:\movies\Three.MP4"/>

            <assetID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99"/>

            <result>OK</result>

            <errorMessage></errorMessage>

        </actionResult>

    </actionResultList>

```

</hostNotification>

38. Message Type: *** com.adobe.browser.event.SelectAssets ***

Note: [Library] The browser sends this message to the host, if the selection in the Browser is changed. This message can have multiple entries of all types ("masterClip", "subClip" and "roughCut") in <assetItemList>.

But we do not need the "full info" for assemblies ("nested" <assetItemList> for structure info and related clip info in <assetMediaInfoList>, like in the message "com.adobe.browser.event.OpenAsset") in this message. We need only the XMP of all selected clips/assemblies.

We support the option <mediaUseLocalFile> and <roughCutUseLocalFile> here. If send with option "true", the XMP read from local file is shown in the metadata panel of the host, else the send XMP is shown.

XML for a sub-clip:

<browserMessage>

 <browserID ID="EABROWSER_SOURCE"/>

 <msgID ID="cc98e76d-98da-aae8-4a85-214afede6b04"/>

 <taskID ID="322be09d-6daf-52e4-6505-88e5fede6ad5"/>

 <assetMediaInfoList>

 <assetMediaInfo>

 <filePath path="D:\movies\MVI_0579.MOV"/>

 <assetID ID="dd702f67-f0ef-40ab-b0ec-41e8807c2b50"/>

 <type>masterClip</type>

 <aliasName>Pacific Ocean</aliasName>

 <fileMetadata>

 <xmp><![CDATA[...]]></xmp>

 </fileMetadata>

 </assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

<assetItem order="1">

<filePath path="D:\movies\MVI_0579.MOV"/>

<mediaInfoID ID="dd702f67-f0ef-40ab-b0ec-41e8807c2b50"/>

<parentAssetID ID="dd702f67-f0ef-40ab-b0ec-41e8807c2b50"/>

<assetID ID="5ae8cd9b-29f3-4424-a5c4-8aa9f9421d32"/>

<markerID ID="c3c4a1ca-aa93-4292-85cc-a7a391e737ee"/>

<name>Second</name>

<type>subClip</type>

<frameRate>f254016000000</frameRate>

<startTime>2099865600000</startTime>

<duration>567302400000</duration>

</assetItem>

</assetItemList>

<mediaUseLocalFile>true</mediaUseLocalFile>

</browserMessage>

XML for an assembly:

<browserMessage>

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="c79be1ed-bcaa-42e8-b905-304afede6bd9"/>

<taskID ID="2ea5cbb3-e7b8-5593-428a-332d07e8d856"/>

<assetMediaInfoList>

<assetMediaInfo>

```

        <filePath
path="C:\Users\rwegner.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml"/>

        <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"/>

        <type>roughCut</type>

        <aliasName>RRR</aliasName>

        <fileMetadata>

            <xmp><![CDATA[...]]></xmp>

        </fileMetadata>

    </assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

    <assetItem order="1">

        <filePath
path="C:\Users\rwegner.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml"/>

        <mediaInfoID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"/>

        <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"/>

        <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"/>

        <name>RRR.xml</name>

        <type>roughCut</type>

    </assetItem>

</assetItemList>

<roughCutUseLocalFile>true</roughCutUseLocalFile>

</browserMessage>

```

39. Message Type: * com.adobe.host.notification.SelectAssetsStatus *****

Note: [Library] The host sends this message to the browser as a response to a "com.adobe.browser.event.SelectAssets" message.

XML:

```
<hostNotification>

  <browserID ID="EABROWSER_SOURCE" />

  <msgID ID="cc98e76d-98da-aae8-4a85-214afede6b04"/>

  <taskID ID="322be09d-6daf-52e4-6505-88e5fede6ad5"/>

  <actionResultList>

    <actionResult>

      <assetID ID="dd702f67-f0ef-40ab-b0ec-41e8807c2b50"/>

      <filePath path="D:\movies\MVI_0579.MOV"/>

      <result>OK</result>

      <errorMessage></errorMessage>

      <libraryMetadata>

        <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>

        <fileCreationTime>2010-10-05T17:17:20Z</fileCreationTime>

      </libraryMetadata>

    </actionResult>

  </actionResultList>

  <result>OK</result>

</hostNotification>
```

40. Message Type: *** com.adobe.browser.event.ExportAsset ***

Note: [Library/Project] The host sends this message to the browser, to export the selected nodes. This can be done as a reaction of the ExportAsset notification from host (if so, use its taskID) or as a "browser internal" action (e.g. context menu, if so, create a new taskID)

This message uses the same format as OpenAsset, to have all informations, but probably it will be enough, to send just the assetMediaInfoList.

The export will only work correctly, if the used files are stored on local disk.

When the entry <roughCutUseLocalFile>true|false</roughCutUseLocalFile> is false, the filePath for rough cut in ExportAsset message must be a valid path. The path can be non-existed, but it must be a valid path.

XML:

<browserMessage>

 <browserID ID="EABROWSER_SOURCE"/>

 <msgID ID="ee2be0a3-fd42-b28a-5ad2-dc45fede68d5"/>

 <taskID ID="9a20bd08-0276-bd52-44a6-af6f128518f4"/>

 <assetMediaInfoList>

 <assetMediaInfo>

 <filePath path="D:\movies\XDCAM-HD\250\Clip\C0005.MXF"/>

 <assetID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497"/>

 <type>masterClip</type>

 <aliasName>Lake Placid</aliasName>

 <fileMetadata>

 <xmp><![CDATA[...]]></xmp>

 </fileMetadata>

 </assetMediaInfo>

 </assetMediaInfoList>

 <assetItemList>

 <assetItem order="1">

 <filePath path="D:\movies\XDCAM-HD\250\Clip\C0005.MXF"/>

 <mediaInfoID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497"/>

 <parentAssetID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497"/>

 <assetID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497"/>

 <name>C0005.MXF</name>

```

        <type>masterClip</type>

    </assetItem>

</assetItemList>

<mediaUseLocalFile>true|false</mediaUseLocalFile>

<roughCutUseLocalFile>true|false</roughCutUseLocalFile>

</browserMessage>

```

41. Message Type: *** com.adobe.host.notification.ExportAssetStatus ***

Note: [Library/Project] The host sends this message to the browser as a response to a "com.adobe.browser.event.ExportAsset " message.

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE" />

    <msgID ID="ee2be0a3-fd42-b28a-5ad2-dc45fede68d5" />

    <taskID ID="9a20bd08-0276-bd52-44a6-af6f128518f4" />

    <result>OK</result>

    <actionResultList>

        <actionResult>

            <assetID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497" />

            <filePath path="D:\movies\XDCAM-HD\250\Clip\C0005.MXF" />

            <result>OK</result>

            <errorMessage></errorMessage>

        </actionResult>

    </actionResultList>

</hostNotification>

```

42. Message Type: *** com.adobe.host.notification.AppExit ***

Note: [Library/Project] The host sends this message to the browser resp. to the panel that does the business logic to give it the chance to shutdown services etc.

XML:


```
<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="b79be1ed-bcaa-42e8-b905-304afede6bda"/>

    <taskID ID="1e3be1ed-aabc-e842-90b5-ed30bd84af9"/>

</browserMessage>
```

43. Message Type: * com.adobe.browser.event.ExitApp *****

Note: [Library/Project] If your panel isn't busy then send <allowExit>true</allowExit> to the host and the app will shutdown.

Otherwise you send this message with <allowExit>false</allowExit> which causes the exit process stop. If your panel really wants not to exit, you need send the false message ASAP.

XML:

```
<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="bacdafd5-83a3-a5c9-4e3a-13e43ac9f4db"/>

    <taskID ID="1e3be1ed-aabc-e842-90b5-ed30bd84af9"/>

    <allowExit>true|false</allowExit>

</browserMessage>
```

44. Message Type: * com.adobe.browser.event.ReadXMPFromDisk *****

Note: [Library/Project] The browser sends this message to the host

XML:

```
<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="3c498d33-3a37-66fa-44ff-623053e901a7"/>
```

```

<taskID ID="551be134-3812-4f42-83ba-23230bd84af9"/>

<assetMedialInfoList>

    <assetMedialInfo>

        <filePath path="C:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF"/>

        <assetID ID="3a798dfc-f332-46f2-82ff-02f053e90cbb"/>

        <type>masterClip</type>

        <fileMetadata>

            <xmp/>

        </fileMetadata>

    </assetMedialInfo>

</assetMedialInfoList>

</browserMessage>

```

45. Message Type: *** com.adobe.host.notification.ReadXMPFromDiskStatus ***

Note: [Library/Project] The host sends this message to the browser as a response to "com.adobe.browser.event.ReadXMPFromDisk"

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="3c498d33-3a37-66fa-44ff-623053e901a7"/>

    <taskID ID="551be134-3812-4f42-83ba-23230bd84af9"/>

    <assetMedialInfoList>

        <assetMedialInfo>

            <filePath path="C:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF"/>

            <assetID ID="3a798dfc-f332-46f2-82ff-02f053e90cbb"/>

            <type>masterClip</type>

```

```

        <fileMetadata>
            <xmp><![CDATA[...]]></xmp>
        </fileMetadata>

        <libraryMetadata>

            <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>

            <fileCreationTime>2011-08-15T08:33:51Z</fileCreationTime>

        </libraryMetadata>

    </assetMediaInfo>

</assetMediaInfoList>

<result>OK</result>

</hostNotification>

```

46. Message Type: *** com.adobe.browser.event.WriteXMPToDisk ***

Note: [Library/Project] The browser sends this message to the host to store the XMP, used on Browser to local file

The tag <changePath> is used to handle a different XMP history storage file. Default the path is set empty.

XML:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="56298d37-5a31-4722-8272-a3b053e90c44"/>

    <taskID ID="89498a53-7534-86fc-54ba-883053490967"/>

    <assetMediaInfoList>

        <assetMediaInfo>

            <filePath path="C:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF"/>

            <assetID ID="3a798dfc-f332-46f2-82ff-02f053e90cbb"/>

```

```

        <type>masterClip</type>

        <changePath path="C:\Temp\Storage.xml" />

        <fileMetadata>

            <xmp><![CDATA[...]]></xmp>

        </fileMetadata>

    </assetMediaInfo>

</assetMediaInfoList>

</browserMessage>

```

47. Message Type: *** com.adobe.host.notification.WriteXMPToDiskStatus ***

Note: [Library/Project] The host sends this message to the browser as a response to "com.adobe.browser.event.WriteXMPToDisk".

Because the save itself may be time consuming, we have two response messages.

The WriteXMPToDiskStatus is send before the save itself is started (to give a quick response). It can have ERROR results, if the given files are missing or not writable.

This message signals the browser: Write is started (or failed), go on with the current job. The browser should not wait for the following message, because it doesn't need to have the same taskID.

If the write is finished, we send the message XMPFileTimeChanged (see next chapter).

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="56298d37-5a31-4722-8272-a3b053e90c44"/>

    <taskID ID="89498a53-7534-86fc-54ba-883053490967"/>

    <result>OK</result>

    <actionResultList>

        <actionResult>

            <assetID ID="3a798dfc-f332-46f2-82ff-02f053e90cbb" />

```

```

        <filePath path="C:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF" />

        <result>OK</result>

        <errorMessage></errorMessage>

    </actionResult>

</actionResultList>

</hostNotification>

```

48. Message Type: *** com.adobe.host.notification.XMPFileTimeChanged ***

Note: [Library] The host sends this message to the browser if the write to disk is finished.

Because the write is asynchronous, we do not store the taskID and assetID from WriteXMPToDiskStatus message. Therefore we can use a new taskID for this (the Write task is finished with the WriteXMPToDiskStatus message).

This message also allows empty assetIDs, but if possible it should use the assetID from WriteXMPToDiskStatus.

This message allows it to “group” write-jobs (e.g. from multiple WriteXMPToDisk messages), so it can contain multiple actionResults:

It contains a list of results (one for each file to write).

We send the info about the file creation and modification within the <libraryMetadata> section.

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="56298d37-5a31-4722-8272-a3b053e90c44"/>

    <taskID ID="89498a53-7534-86fc-54ba-883053490967"/>

    <result>OK</result>

    <actionResultList>

        <actionResult>

            <assetID ID="3a798dfc-f332-46f2-82ff-02f053e90cbb" />

```

```

        <filePath path="C:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF" />

        <result>OK</result>

        <errorMessage></errorMessage>

        <libraryMetadata>

            <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>

            <fileCreationTime>2010-10-05T17:17:20Z</fileCreationTime>

        </libraryMetadata>

    </actionResult>

</actionResultList>

</hostNotification>

```

49. Message Type: *** com.adobe.browser.event.ReadRoughCutFromDisk ***

Note: [Library] This message is send from browser to host, to request the data of an assembly from disk. XML:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="efd53f63-9779-465c-86a4-60a380f56a02" />

    <taskID ID="de2be5cf-58bd-45cd-948b-5cdec2707535" />

    <assetMediaInfoList>

        <assetMediaInfo>

            <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.2\CWAssemblies\Reinhard.xml"/>

            <assetID ID="3a798dfc-f332-46f2-82ff-02f053e90cbb"/>

            <type>roughCut</type>

        </assetMediaInfo>
    </assetMediaInfoList>
</browserMessage>

```

```
</assetMediaInfoList>

</browserMessage>
```

50. Message Type: *** com.adobe.host.notification.ReadRoughCutFromDiskStatus ***

Note: [Library] This message sends the structure of an assembly (as stored on local disk) to browser. The message has the same format as the "SaveAsset" message for an assembly.

XML:

```
<hostNotification>

  <browserID ID="EABROWSER_SOURCE" />

  <msgID ID="efd53f63-9779-465c-86a4-60a380f56a02" />

  <taskID ID="de2be5cf-58bd-45cd-948b-5cdec2707535" />

  <assetMediaInfoList>

    <assetMediaInfo>

      <filePath
path="C:\Users\marnold.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml" />

      <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

      <type>roughCut</type>

      <rate>

        <timebase>24</timebase>

        <ntsc>TRUE</ntsc>

      </rate>

      <fileMetadata>

        <xmp><![CDATA[...]]></xmp>

      </fileMetadata>

      <libraryMetadata>

        <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>
```

```
<fileCreationTime>2011-08-30T08:52:44Z</fileCreationTime>

</libraryMetadata>

</assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

  <assetItem order="1" >

    <filePath
path="C:\Users\marnold.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml" />

    <mediaInfoID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

    <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

    <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

    <type>roughCut</type>

    <assetItemList>

      <assetItem order="1" >

        <filePath path="D:\movies\Hellboy II.mov" />

        <mediaInfoID ID="1f75e31e-f98c-4382-88f4-fac69b6f9514" />

        <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"

/>

        <assetID ID="3d90b27d-ee5c-460d-a294-7705aa9bfa97" />

        <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />

        <frameRate>f254016000000</frameRate>

        <startTime>19631764152000</startTime>

        <duration>1758700944000</duration>

        <name>Hells Kitchen</name>

        <type>subClip</type>

      </assetItem>
```



```

        <assetItem order="2" >

            <filePath path="D:\movies\Three.MP4" />

            <mediaInfoID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99" />

            <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"

/>

            <assetID ID="e05e197a-5764-40b6-b599-02d77aee645a" />

            <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />

            <frameRate>f254016000000</frameRate>

            <startTime>6070696632000</startTime>

            <duration>953512560000</duration>

            <name>Teiko</name>

            <type>subClip</type>

        </assetItem>

    </assetItemList>

</assetItem>

</assetItemList>

    <result>OK|ERROR</result>

</hostNotification>

```

51. Message Type: *** com.adobe.browser.event.WriteRoughCutToDisk ***

Note: [Library] The browser sends this message to the host to store the Assembly, used on Browser to local file. We send the complete info (as in the OpenAsset message for assemblies), maybe some of the info is not needed and will be removed.

We send structure information (rate tag in assetMediaInfo and the list of sub-items in "nested" assetItemList.

The assetMediaInfoList does only contain the assembly itself, not the used clips (their info is not needed for write)

XML:

```
<browserMessage>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="71ebe534-1d33-ebd8-89fb-54c826ce2423"/>

  <taskID ID="94ebe5ec-9934-5bd7-ea56-27c826ce2327"/>

  <assetMediaInfoList>

    <assetMediaInfo>

      <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"/>

      <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

      <type>roughCut</type>

      <rate>

        <timebase>24</timebase>

        <ntsc>TRUE</ntsc>

      </rate>

      <fileMetadata>

        <xmp>

          <![CDATA[

            ...

          ]]>

        </xmp>

      </fileMetadata>

    </assetMediaInfo>

  </assetMediaInfoList>

  <assetItemList>

    <assetItem order="1">
```

```

        <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"/>

        <mediaInfoID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

        <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

        <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

        <name>Test.xml</name>

        <type>roughCut</type>

        <assetItemList>

            <assetItem order="1">

                <filePath path="C:\Media\XDCAM HD Seattle B-
roll\Clip\C0004.MXF" />

                <mediaInfoID ID="cb3be534-1da7-4488-affb-210826ce2fe1" />

                <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"
/>

                <assetID ID="799fdca8-8dc5-4056-8195-3c3e44923ae1" />

                <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />

                <frameRate>f254016000000</frameRate>

                <startTime>1923976454400</startTime>

                <duration>11679469401600</duration>

                <name>Subclip_01</name>

                <type>subClip</type>

            </assetItem>

            <assetItem order="2">

                <filePath path="E:\Test\CARD
01\BPAV\CLPR\ATVb0284_01\ATVb0284_01.MP4" />

                <mediaInfoID ID="30c0d333-ed92-42b1-b4f4-1b92960486ee"
/>

```

```

        <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"
/>

        <assetID ID="42c8eec5-09e7-4210-a071-ba3712b0c8df" />

        <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />

        <frameRate>f254016000000</frameRate>

        <startTime>2881726848000</startTime>

        <duration>10721719008000</duration>

        <name>Subclip_02</name>

        <type>subClip</type>

    </assetItem>

</assetItemList>

</assetItem>

</assetItemList>

</browserMessage>

```

52. Message Type: *** com.adobe.host.notification.WriteRoughCutToDiskStatus ***

Note: [Library] The host sends this message to the browser as a response to "com.adobe.browser.event.WriteRoughCutToDisk".

It contains a list of results (on for each file to write).

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="71ebe534-1d33-ebd8-89fb-54c826ce2423"/>

    <taskID ID="94ebe5ec-9934-5bd7-ea56-27c826ce2327"/>

    <result>OK</result>

    <actionResultList>

```

```

        <actionResult>

            <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81" />

            <filePath path
C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml />

            <result>OK</result>

            <errorMessage></errorMessage>

            <libraryMetadata>

                <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>

                <fileCreationTime>2010-10-05T17:17:20Z</fileCreationTime>

            </libraryMetadata>

        </actionResult>

    </actionResultList>

</hostNotification>

```

Drag & Drop handling

At drag on browser we have two different ways, to send the info to the host.

For Cottonwood and Prelude we have to put a message text to the clipboard (in Flash: ClipboardFormats.TEXT_FORMAT) which has the same format as the following message “com.adobe.browser.event.PrepareDragDrop”.

For Cottonwood and Prelude, this is enough, but for Premiere Pro we need the following message and we have to set the file list as additional info to clipboard (in Flash: ClipboardFormats.FILE_LIST_FORMAT), to support their handling.

53[not supported in Prelude]. Message Type: *com.adobe.browser.event.PrepareDragDrop *****

Note: This message is send to host (currently only handled by Premiere Pro 6), before the clipboard is filled and the drag really starts.

It allows Premiere Pro, to be prepared to the drag (expected drop). It has the same format as the “com.adobe.browser.event.OpenAsset”

XML for a Clip:

<browserMessage>

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="3729c905-87af-6f53-f592-3a0a48fed533"/>

<taskID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

<assetMediaInfoList>

<assetMediaInfo>

<filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

<assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

<type>masterClip</type>

<aliasName>Hightower</aliasName>

<fileMetadata>

<xmp>

<![CDATA[

...

]]>

</xmp>

</fileMetadata>

</assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

<assetItem order="1">

<filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

<mediaInfoID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

<parentAssetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

<assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

```

        <name>C0004.MXF</name>

        <type>masterClip</type>

    </assetItem>

</assetItemList>

    <mediaUseLocalFile>true</mediaUseLocalFile>

</browserMessage>

```

XML for an assembly:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="827ab352-85b5-31c3-8594-949a48f8cc12"/>

    <taskID ID="9332c534-89a3-5498-05fb-b42e26cb00e6"/>

    <assetMediaInfoList>

        <assetMediaInfo>

            <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"/>

            <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

            <type>roughCut</type>

            <aliasName>Test</aliasName>

            <rate>

                <timebase>24</timebase>

                <ntsc>TRUE</ntsc>

            </rate>

            <fileMetadata>

                <xmp>

                    <![CDATA[

```

```

...

]]>

</xmp>

</fileMetadata>

</assetMediaInfo>

<assetMediaInfo>

  <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

  <assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

  <type>masterClip</type>

  <aliasName>Hightower</aliasName>

  <fileMetadata>

    <xmp>

      <![CDATA[

        ...

      ]]>

    </xmp>

  </fileMetadata>

</assetMediaInfo>

<assetMediaInfo>

  <filePath path="E:\Test\CARD
01\BPAV\CLPR\ATVb0284_01\ATVb0284_01.MP4"/>

  <assetID ID="30c0d333-ed92-42b1-b4f4-1b92960486ee"/>

  <type>masterClip</type>

  <aliasName>Seaside</aliasName>

  <fileMetadata>

    <xmp>

```



```

<![CDATA[
    ...
]]>
</xmp>
</fileMetadata>
</assetMediaInfo>
</assetMediaInfoList>
<assetItemList>
    <assetItem order="1">
        <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"/>
        <mediaInfoID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>
        <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>
        <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>
        <name>Test.xml</name>
        <type>roughCut</type>
        <assetItemList>
            <assetItem order="1">
                <filePath path="C:\Media\XDCAM HD Seattle B-
roll\Clip\C0004.MXF" />
                <mediaInfoID ID="cb3be534-1da7-4488-affb-210826ce2fe1" />
                <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"
/>
                <assetID ID="799fdca8-8dc5-4056-8195-3c3e44923ae1" />
                <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />
                <frameRate>f254016000000</frameRate>
                <startTime>1923976454400</startTime>

```

```

        <duration>11679469401600</duration>

        <name>Subclip_01</name>

        <type>subClip</type>

    </assetItem>

    <assetItem order="2">

        <filePath path="E:\Test\CARD
01\BPAV\CLPR\ATVb0284_01\ATVb0284_01.MP4" />

        <mediaInfoID ID="30c0d333-ed92-42b1-b4f4-1b92960486ee"
/>

        <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"
/>

        <assetID ID="42c8eec5-09e7-4210-a071-ba3712b0c8df" />

        <frameRate>f254016000000</frameRate>

        <startTime>2881726848000</startTime>

        <duration>10721719008000</duration>

        <name>Subclip_02</name>

        <type>subClip</type>

    </assetItem>

</assetItemList>

</assetItem>

</assetItemList>

<roughCutUseLocalFile>true</roughCutUseLocalFile>

</browserMessage>

```

54. Message Type: *** com.adobe.browser.event.ReSyncAsset ***

Note: [Library] This browser sends this message to host, to update the Browser info from local disk info.

For every file (clip or assembly) in Library, we send the last modification date of file, stored on server (get from <libraryMetadata> info in calls "ImportXMP", "SaveAsset", "CreateRoughCut", "WriteXMPToDisk", "WriteRoughCutToDisk").

If the modification date on local disk is different, we cause a "com.adobe.host.notification.SaveAsset" message, to update the info on server.

XML:

```
<browserMessage>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="ae7a7562-e5bb-81cc-a594-229a48f8c772"/>

  <taskID ID="0a32c534-19ae-b490-15f3-541e26cb0ca6"/>

  <fileInfoList>

    <fileInfo>

      <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81" />

      <filePath path=D:\Media\XDCAM HD Wiffle test\Clip\C0003.MXF >

      <fileLastModificationTime>2011-09-22T16:01:51Z</fileLastModificationTime>

    </fileInfo>

  </fileInfoList>

</browserMessage>
```

55. Message Type: *** com.adobe.host.notification.ReSyncAssetStatus***

Note: [Library] The host sends this message to the browser as a response to "com.adobe.browser.event.ReSyncAsset".

If the file does not exist on disk, the <libraryMetadata> section is empty and the result for this file is FALSE.

XML:

```
<hostNotification>

  <browserID ID="EABROWSER_SOURCE"/>
```

```

<msgID ID="ae7a7562-e5bb-81cc-a594-229a48f8c772"/>
<taskID ID="0a32c534-19ae-b490-15f3-541e26cb0ca6"/>
<result>OK</result>
<actionResultList>
  <actionResult>
    <assetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81" />
    <filePath path=D:\Media\XDCAM HD Wiffle test\Clip\C0003.MXF >
    <result>OK</result>
    <errorMessage></errorMessage>
    <libraryMetadata>
      <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>
      <fileCreationTime>2010-10-05T17:17:20Z</fileCreationTime>
    </libraryMetadata>
  </actionResult>
</actionResultList>
</hostNotification>

```

56[not supported in Prelude]. Message Type: * com.adobe.host.notification.RequestAssetInfo *****

Note: [Library] The host sends this message to browser, to get the info (XMP) of the given asset. Currently, it is only used from Premiere Pro.

XML:

```

<hostNotification>
  <browserID ID="EABROWSER_SOURCE"/>
  <msgID ID="ae7a7562-e5bb-81cc-a594-229a48f8c772"/>
  <taskID ID="57ebe5e3-a932-ebd1-5a56-65c826ce2a57"/>

```

```
<assetID ID="89dbc905-97a4-4f5c-a59c-ea0a48fedd81" />

</hostNotification>
```

57[not supported in Prelude]. Message Type: ***
"com.adobe.browser.event.RequestAssetInfoResponse ***

Note: The browser sends this message to host as a response to
"com.adobe.host.notification.RequestAssetInfo".

It contains the same info as the "com.adobe.browser.event.OpenAsset" call.

In case of ERROR (node for the given assetID does not exist), we can only send the assetID back:
For this, in assetMedialInfo the filePath, type and fileMetadata tags are omitted (or send empty) and the
assetInfoList is omitted (or empty), too.

XML for a clip:

```
<browserMessage>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="51ebe534-1d33-ebd8-89fb-54c826ce2fe1"/>

  <taskID ID="57ebe5e3-a932-ebd1-5a56-65c826ce2a57"/>

  <assetMedialInfoList>

    <assetMedialInfo>

      <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

      <assetID ID="89dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

      <type>masterClip</type>

      <aliasName>Harbor</aliasName>

      <fileMetadata>

        <xmp>

          <![CDATA[

            ...

          ]]>

        </xmp>

      </fileMetadata>

    </assetMedialInfo>

  </assetMedialInfoList>

</browserMessage>
```

```

        </fileMetadata>

    </assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

    <assetItem order="1">

        <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

        <mediaInfoID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

        <parentAssetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

        <assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

        <name>C0004.MXF</name>

        <type>masterClip</type>

    </assetItem>

</assetItemList>

    <mediaUseLocalFile>true</mediaUseLocalFile>

</browserMessage>

```

XML for an assembly:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="e1edc79b-2e48-b13a-7e05-e4a6fede6b0b"/>

    <taskID ID="57ebe5e3-a932-ebd1-5a56-65c826ce2a57"/>

    <assetMediaInfoList>

        <assetMediaInfo>

            <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"/>

            <assetID ID="89dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

```

```
<type>roughCut</type>

<aliasName>Test</aliasName>

<rate>

    <timebase>24</timebase>

    <ntsc>TRUE</ntsc>

</rate>
```

```
<fileMetadata>

    <xmp>

        <![CDATA[

            ...

        ]]>

    </xmp>

</fileMetadata>
```

```
</assetMediaInfo>
```

```
<assetMediaInfo>

    <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF"/>

    <assetID ID="cb3be534-1da7-4488-affb-210826ce2fe1"/>

    <type>masterClip</type>

    <aliasName>Harbor</aliasName>

    <fileMetadata>

        <xmp>

            <![CDATA[

                ...

            ]]>

        </xmp>

    </fileMetadata>

</assetMediaInfo>
```

```
</fileMetadata>

</assetMediaInfo>

<assetMediaInfo>

  <filePath path="E:\Test\CARD
01\BPAV\CLPR\ATVb0284_01\ATVb0284_01.MP4"/>

  <assetID ID="30c0d333-ed92-42b1-b4f4-1b92960486ee"/>

  <type>masterClip</type>

  <aliasName>Seaside</aliasName>

  <fileMetadata>

    <xmp>

      <![CDATA[

        ...

      ]]>

    </xmp>

  </fileMetadata>

</assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

  <assetItem order="1">

    <filePath
path="C:\Users\marnold\Documents\Adobe\Cottonwood\1.3\CWAssemblies\Test.xml"/>

    <mediaInfoID ID="89dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

    <parentAssetID ID="89dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

    <assetID ID="89dbc905-97a4-4f5c-a59c-ea0a48fedd81"/>

    <name>Test.xml</name>

    <type>roughCut</type>
```



```
<assetItemList>

    <assetItem order="1">

        <filePath path="C:\Media\XDCAM HD Seattle B-
roll\Clip\C0004.MXF" />

        <mediaInfoID ID="cb3be534-1da7-4488-affb-210826ce2fe1" />

        <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"
/>

        <assetID ID="799fdca8-8dc5-4056-8195-3c3e44923ae1" />

        <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />

        <frameRate>f254016000000</frameRate>

        <startTime>1923976454400</startTime>

        <duration>11679469401600</duration>

        <name>Subclip_01</name>

        <type>subClip</type>

    </assetItem>

    <assetItem order="2">

        <filePath path="E:\Test\CARD
01\BPAV\CLPR\ATVb0284_01\ATVb0284_01.MP4" />

        <mediaInfoID ID="30c0d333-ed92-42b1-b4f4-1b92960486ee"
/>

        <parentAssetID ID="99dbc905-97a4-4f5c-a59c-ea0a48fedd81"
/>

        <assetID ID="42c8eec5-09e7-4210-a071-ba3712b0c8df" />

        <frameRate>f254016000000</frameRate>

        <startTime>2881726848000</startTime>

        <duration>10721719008000</duration>

        <name>Subclip_02</name>
```

```

        <type>subClip</type>

    </assetItem>

</assetItemList>

</assetItem>

</assetItemList>

    <roughCutUseLocalFile>true</roughCutUseLocalFile>

</browserMessage>

```

58. Message Type: *** com.adobe.host.notification.AssetDirty ***

Note: [Library] The host sends a list of files with changed dirty state (changed in host UI) to the browser. The result can be set to “Dirty” and “Undirty”.

The status can be stored on server and should be set back to “Undirty” on server, if the file is closed (“CloseAsset” call) or saved (“SaveAsset” call) on host.

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="5593bad8-275a-3d19-96c3-988ebcd327bd"/>

    <taskID ID="72f6cba4-f700-549a-618f-902d07ebf057"/>

    <assetItemList>

        <assetItem>

            <assetID ID="799fdca8-8dc5-4056-8195-3c3e44923ae1" />

            <filePath path="C:\Media\XDCAM HD Seattle B-roll\Clip\C0004.MXF" />

        </assetItem >

    </assetItemList >

    <result>Dirty</result>

</hostNotification>

```

59. Message Type: *** com.adobe.browser.event.UpdateXMPWithCustomData ***

Note: [Library] This message is send from Browser to host, to merge the current XMP with given custom metadata. The custom metadata can be given by a Minimum Metadata dialog on host side (send with call com.adobe.host.notification.IngestItemsReady, see chapter 7) or an input in browser itself.

With this call we send the XMP of one or more files and the custom metadata. The host will add the custom metadata to the given XMP (values, that already exists in xmp are overwritten).

If <mediaUseLocalFile> is set to true, we use the XMP, read from local file for merge (instead of the send XMP).

If <storeEmptyInfo> is set to true, we overwrite existing tag with given empty tags. If set to false, we keep the tag value, if the value is set empty in minimumMatadata tags.

The merged XMP is send back to browser with the related status notification (see next chapter). XML:

<browserMessage>

 <browserID ID="EABROWSER_SOURCE"/>

 <msgID ID="dc280ee1-a2a2-49ed-ae8b-05de21f0e512"/>

 <taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

 <assetMediaInfoList>

 <assetMediaInfo>

 <filePath path="D:\Media\XDCAM-HD\Clip\C0001.MXF"/>

 <assetID ID="56243814-87b1-7493-018f-082d07ebf055"/>

 <type>masterClip</type>

 <fileMetadata>

 <xmp>

 <![CDATA[

 ...

]]>

 </xmp>

 </fileMetadata>

```

        </assetMediaInfo>
    </assetMediaInfoList>
    <customMetadata>
        <minimumMetadata>
            <namespace URI="http://ns.cnn.com/xmp/1.0/" prefix="xmpCNN" >
                <slug>New President</slug>
                <source>CNN</source>
                <photoJournalist>David Guetta</photoJournalist>
                ...
            </namespace>
            <keywords>
                <keyword>HotNews</keyword>
            </keywords>
            <storeEmptyInfo>true|false</storeEmptyInfo>
            <applyToAllDestinations>true|false</applyToAllDestinations>
        </minimumMetadata>
    </customMetadata>
    <mediaUseLocalFile>true|false</mediaUseLocalFile>
</browserMessage>

```

60. Message Type: *** com.adobe.host.notification.UpdateXMPWithCustomDataStatus ***

Note: [Library] This message is send from host to browser as a result of the com.adobe.browser.event.UpdateXMPWithCustomData call, as soon as the host has added the custom metadata to all given files. (If something failed: result is ERROR)

XML:

```

<hostNotification>
    <browserID ID="EABROWSER_SOURCE"/>
    <msgID ID="dc280ee1-a2a2-49ed-ae8b-05de21f0e512"/>

```

```

<taskID ID="56accba4-f7b1-4493-a18f-e82d07ebf055"/>

<assetMedialInfoList>
    <assetMedialInfo>
        <filePath path="D:\Media\XDCAM-HD\Clip\C0001.MXF"/>
        <assetID ID="56243814-87b1-7493-018f-082d07ebf055"/>
        <type>masterClip</type>
        <fileMetadata>
            <xmp>
                <![CDATA[
                    ...
                ]]>
            </xmp>
        </fileMetadata>
    </assetMedialInfo>
    ...
</assetMedialInfoList>

<result>OK</result>

</hostNotification>

```

61. Message Type: *** com.adobe.browser.event.ReportEvent ***

Note: [Library/Project] This is a “free” browser event message. The browser can send it every time, if he wants to tell the host an event.

The host does not answer to this message.

With tag <showMessage> the browser could decide, if the host should show a message for this (or if this is not needed, e.g. because the Browser already has shown the info).

XML:

```
<browserMessage>
```

```

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="44b3e60d-6136-433d-07ae-21e35a956ecc" />

<taskID ID="04952e6a-8fba-ea38-f620-0056d8c3c453" />

<event>

    <eventType>INFO|WARN|ERROR</eventType>

    <eventString>...</eventString>

    <showMessage> true|false</showMessage>

</event>

</browserMessage>

```

62. Message Type: *** com.adobe.browser.event.SendToPremiere ***

Note: [Library] The browser sends this message to the host, to send the selected nodes. This message uses the same format as OpenAsset, to have all informations.

The send will only work correctly, if the used files are stored on local disk.

XML:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="ee2be0a3-fd42-b28a-5ad2-dc45fede68d5"/>

    <taskID ID="9a20bd08-0276-bd52-44a6-af6f128518f4"/>

    <assetMediaInfoList>

        <assetMediaInfo>

            <filePath path="D:\movies\XDCAM-HD\250\Clip\C0005.MXF"/>

            <assetID ID="18cdfd4-13a3-45c9-ae3a-c3e43ac9f497"/>

            <type>masterClip</type>

            <aliasName>Lake Placid</aliasName>

            <fileMetadata>

                <xmp><![CDATA[...]]></xmp>

            </fileMetadata>

        </assetMediaInfo>
    </assetMediaInfoList>
</browserMessage>

```

```

</assetMediaInfoList>

<assetItemList>

    <assetItem order="1">

        <filePath path="D:\movies\XDCAM-HD\250\Clip\C0005.MXF"/>

        <mediaInfoID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497"/>

        <parentAssetID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497"/>

        <assetID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497"/>

        <name>C0005.MXF</name>

        <type>masterClip</type>

    </assetItem>

</assetItemList>

<mediaUseLocalFile>true|false</mediaUseLocalFile>

<roughCutUseLocalFile>true|false</roughCutUseLocalFile>

</browserMessage>

```

63. Message Type: *** com.adobe.host.notification.SendToPremiereStatus ***

Note: [Library] The host sends this message to the browser as a response to a "com.adobe.browser.event.SendToPremiere" message.

XML:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE" />

    <msgID ID="ee2be0a3-fd42-b28a-5ad2-dc45fede68d5" />

    <taskID ID="9a20bd08-0276-bd52-44a6-af6f128518f4" />

    <result>OK</result>

    <actionResultList>

        <actionResult>

            <assetID ID="18cdafd4-13a3-45c9-ae3a-c3e43ac9f497" />

            <filePath path="D:\movies\XDCAM-HD\250\Clip\C0005.MXF" />

            <result>OK</result>

            <errorMessage></errorMessage>

        </actionResult>

    </actionResultList>

</hostNotification>

```

```

        </actionResult>

    </actionResultList>

</hostNotification>

```

***** Menu Status Update *****

Beside the defined API calls we have another CSXS message send from Browser to host, to update the status of menu entries in Host menu.

64. Message Type: *** com.adobe.browser.event.CommandStatusMessage ***

Note: [Library] The browser sends this message to host, to update the status of menu items on host, if the Browser panel is active. It contains the list of enabled commands (all commands that are not in the list but part of this handling are set as disabled).

XML:

```

<browserMessage>

    <browserID ID="EABROWSER_SOURCE"/>

    <msgID ID="66ebe53e-5d32-1bd8-89f3-1ec826ce2031"/>

    <taskID ID="536be5f3-a93e-0b21-7a5a-f5c826ce2025"/>

    <commandList>

        <command ID="cmd.file.newroughcut" />

        <command ID="cmd.file.appendtoroughcut" />

        <command ID="cmd.file.addtoquickcollection" />

        <command ID="cmd.file.showquickcollection" />

        <command ID="cmd.file.clearquickcollection" />

        <command ID="cmd.edit.clear" />

        <command ID="cmd.edit.selectall" />

        <command ID="cmd.edit.deselectall" />

    </commandList>

</browserMessage>

```

Currently our Library panel supports the following commands:

- "cmd.file.newroughcut": Menu Entry in CW 1.3: "File - New Assembly...". Enabled: Always.

If pressed, the message "com.adobe.host.notification.CreateRoughCut" is send – see above.

- "cmd.file.appendtoroughcut" Menu Entry in CW 1.3: "File – Append to Assembly". Enabled: If an assembly is opened in timeline the selection in Library is not empty and contains only appendable assets (clip or sub-clip). If pressed, the message "com.adobe.host.notification.AppendToRoughCut" is send – see above.
- "cmd.file.addtoquickcollection": Menu Entry in CW 1.3: "File – Add to Quick Collection". Enabled: If the selection in Library is not empty and contains assets that are not already in Quick Collection.
- "cmd.file.removefromquickcollection": Menu Entry in CW 1.3: "File – Remove from Quick Collection". Enabled: If the selection in Library is not empty and contains assets, that are in Quick Collection.
- "cmd.file.showquickcollection": Menu Entry in CW 1.3: "File – Show Quick Collection". Enabled: If Library is not already in Show Quick Collection mode.
- "cmd.file.clearquickcollection": Menu Entry in CW 1.3: "File – Clear Quick Collection". Enabled: If Library has entries in Quick Collection.
- "cmd.edit.cut": Menu Entry in CW 1.3: "Edit - Cut". Enabled: If we are inside a text input in Library.
- "cmd.edit.copy": Menu Entry in CW 1.3: "Edit - Copy". Enabled: If we are inside a text input in Library.
- "cmd.edit.paste": Menu Entry in CW 1.3: "Edit - Paste". Enabled: If we are inside a text input in Library.
- "cmd.edit.clear": Menu Entry in CW 1.3: "Edit - Clear". Enabled: If there are items selected in Library (in this case we remove assets from library, if menu item is selected) or we are inside a text input in Library
- "cmd.edit.selectall": Menu Entry in CW 1.3: "Edit – Select All". Enabled: If not all items are selected in Library (in this case we select all items in Library, if menu item is selected) or we are inside a text input in Library
- "cmd.edit.deselectall": Menu Entry in CW 1.3: "Edit – Deselect All". Enabled: If not all items are deselected in Library (in this case we deselect all items in Library, if menu item is selected) or we are inside a text input in Library

65. Message Type: *** com.adobe.host.notification.ExecuteCommand ***

Note: [Library] The host sends this message to browser, if the Browser tab is selected active on host and a menu item is clicked, that is ruled by the "status handling" (see chapter above). (For some of them, we have already defined API calls, in this case we do not send the ExecuteCommand but the related API call)

On Browser it should perform the related

action. XML:

```
<hostNotification>
```

```

<browserID ID="EABROWSER_SOURCE"/>

<msgID ID="3e7a7ec2-15b4-a1c0-b591-4e9a48f8c332"/>

<taskID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>

<commandList>

    <command ID="cmd.edit.selectall" />

</commandList>

</hostNotification>

```

66. Message Type: * com.adobe.events.TextFieldFocusIn *****

Note: [Library/Project] The host sends this message to host, if we set the focus on a text input field in Library.

With this message (and the following), we inform the host about the text input status in Library (needed for some handlings, like copy, paste...).

XML:

Currently none.

67. Message Type: * com.adobe.events.TextFieldFocusOut *****

Note: [Library/Project] The host sends this message to host, if we lose the focus on a text input field in Library.

XML:

Currently none.

******* Minimum Metadata *******

If there are some “mandatory” value XMP inputs for all files to be imported to Browser, we have the ability, to show a “Minimum Metadata Dialog” within the import workflow.

The “Minimum Metadata Dialog” has to be available as CSXS extension (in core extensions of CW). It has to be shown if the <Import> button in the Ingest Dialog is pressed.

It should contain input fields (or popups) for the mandatory XMP tags. If filled, it sends the input values to the host with the following message:

68. Message Type: * com.adobe.dialog.event.MinimumMetadata*****

Note: [Library/Project] The Minimum Metadata Dialog sends this event to host if finished.

If the Minimum Metadata Panel allows the input of keywords, they are sent in a separate section.

If the Minimum Metadata Panel is called for only one clip and it allows the input of a display name for the clip, it can be send with the tag <clipName>. (It will be send to Browser as tag <aliasName> in IngestItemReady)

Notice that “applyToAllDestinations” filed which indicates whether to apply minimum metadata to all destinations, including backups. If yes, both primary and backup destinations will be applied with minimum metadata, otherwise, minimum metadata will be only applied to primary destination. If message doesn’t have this field, minimum metadata will be applied to primary destination only.

If closed with <Cancel> button, the <minimumMetadata> can be omitted.

XML:

```
<dialogMessage>
  <status>OK|CANCEL</status>
  <minimumMetadata>
    <namespace URI="http://ns.cnn.com/xmp/1.0/" prefix="xmpCNN" >
      <slug>New President</slug>
      <source>CNN</source>
      <photoJournalist>David Guetta</photoJournalist>
      ...
    </namespace>
    <clipName>UserDefinedClipname</clipName>
    <keywords>
      <keyword>HotNews</keyword>
    </keywords>
    <storeEmptyInfo>true|false</storeEmptyInfo>
    <applyToAllDestinations>true|false</applyToAllDestinations>
  </minimumMetadata>
</dialogMessage>
```

69. Message Type: * com.adobe.host.notification.InitMiniMetadata *****

Note: [Library/Project] The Minimum Metadata Dialog needs some information for its initialization.

This message is sent just before Minimum Metadata Dialog shows. If no Minimum Metadata Dialog showing, there is no this message. Now it contains the user selected items in Ingest Dialog.
XML:

```
<hostNotification>

    <browserID ID="MediaCollection"/>

    <msgID ID="17e072e0-0cd5-4514-ae6e-ceaad7c46f4d"/>

    <taskID ID="d9d6ae1f-b60e-45fe-b2a3-7c0bbfc96987"/>

    <ingestItemList>

        <ingestItem>

            <filePath path="D:\Workspace\testmedia\MVI_1135.MOV"/>

        </ingestItem>

    </ingestItemList>

</hostNotification>
```

70. Message Type: * com.adobe.events.selectedMetadataEvent*****

Note: [Library/Project] Host sends this event to CustomMetadataPanel when user selects asset or clears selection. XML:

```
<metadata>

    <fileMetadata><![CDATA[ ..... ]]></fileMetadata>

</metadata>
```

71. Message Type: * com.adobe.events.markerClipMetadataEvent*****

Note: [Library/Project] Host sends this event to CustomMarkerPanel when media metadata data changed.

XML:

```
<marker>

    <clipMetadata><![CDATA[ ..... ]]></clipMetadata>

</marker>
```

72. Message Type: * com.adobe.events.selectedMarkerEvent*****

Note: [Library/Project] Host sends this event to CustomMarkerPanel to receive marker custom field data.

XML:

```
<markerData>

  <editingDisabled>false</editingDisabled>
  <markerCount>1</markerCount>
  <marker>
    <prop.list>
      <prop.pair>
        <key>comment</key>
        <string></string>
      </prop.pair>
      <prop.pair>
        <key>cuePointParams</key>
        <prop.list>
        </prop.list>
      </prop.pair>
      <prop.pair>
        <key>cuePointType</key>
        <string></string>
      </prop.pair>
      <prop.pair>
        <key>duration</key>
        <string>2015193600000</string>
      </prop.pair>
      <prop.pair>
        <key>guid</key>
        <string>d1ec0f8f-3ece-4751-9fb9-76e7105183b5</string>
      </prop.pair>
      <prop.pair>
        <key>location</key>
        <string></string>
      </prop.pair>
      <prop.pair>
        <key>name</key>
        <string></string>
      </prop.pair>
      <prop.pair>
        <key>probability</key>
        <string></string>
      </prop.pair>
      <prop.pair>
        <key>speaker</key>
        <string></string>
      </prop.pair>
    </prop.list>
  </marker>
</markerData>
```

```

    <prop.pair>
      <key>startTime</key>
      <string>1515628800000</string>
    </prop.pair>
    <prop.pair>
      <key>target</key>
      <string></string>
    </prop.pair>
    <prop.pair>
      <key>type</key>
      <string>TestCustomMarker</string>
    </prop.pair>
  </prop.list>
</marker>

```

```
</markerData>
```

73. Message Type: *** com.adobe.cottonwood.events.NewMarkerTemplate***

Note: [Library/Project] Host sends this event to CustomMarkerPanel when user saves a custom marker as template.

XML:

```

<newMarkerTemplate>
  <newTemplate>
    <Marker.TemplateName>hello</Marker.TemplateName>
    <Marker.Type>TestCustomMarker</Marker.Type>
    <Marker.Comment></Marker.Comment>
    <Marker.Location></Marker.Location>
    <Marker.Speaker></Marker.Speaker>
    <Marker.Probability></Marker.Probability>
    <Marker.Target></Marker.Target>
    <Marker.CuePointType></Marker.CuePointType>
    <Marker.CuePointCount>0</Marker.CuePointCount>
  </newTemplate>
</newMarkerTemplate>

```

74. Message Type: *** com.adobe.cottonwood.events.fileCloseOverride***

Note: [Library/Project] Host sends this event to CustomMarkerPanel when closing a clip with its custom marker opened on Marker Inspector Panel.

XML:

```
<commitMarkerChanges>

    <markerType>TestCustomMarker_A</markerType>

    <markerGuids>80b5cfd0-1ccd-40a7-bc96-c09735951190</markerGuids>

</commitMarkerChanges>
```

75. Message Type: * com.adobe.events.ExecuteCommand*****

Note: [Library/Project] Host sends this event to CustomMarkerPanel when handling “Select All” command in Custom Marker View.

XML:

```
<executeCommand>

    <command>cmd.edit.selectall</command>

</executeCommand>
```

76. Message Type: * com.adobe.events.SendUnassociatedMetadata*****

Note: [Library/Project] The browser sends this event to host when user sends unassociated metadata. Usually we choose media path as our metadataID, but this id could be a non-existed path. XML:

```
<unassociatedMetadataList>

    <unassociatedMetadata>

        <metadataID>D:\Workspace\testmedia\VTS_01_1.mp4</metadataID>

        <xmp><![CDATA[...]]></xmp>

    </unassociatedMetadata>

    ...

</unassociatedMetadataList>
```

77. Message Type: * com.adobe.events.ApplyUnassociatedMetadata*****

Note: [Library/Project] The browser sends this event to host when user applies unassociated metadata to the clip opened on timeline.

Position have 2 options here, when user chooses apply markers at “Current Player Position”, the position is Player, when choosing apply markers at “Marker Start Time”, the position is Marker.

XML:

```
<unassociatedMetadataList>

    <position>Player | Marker</position>

    <unassociatedMetadata>

        <metadataID>D:\Workspace\testmedia\VTS_01_1.mp4</metadataID>

        <xmp><![CDATA[...]]></xmp>

    </unassociatedMetadata>

    ...

</unassociatedMetadataList>
```

78. Message Type: *** com.adobe.host.notification.SelectedAssetInfo***

Note: [Project] The host sends this message to custom panel when asset item(s) are selected. Basic informations include “filePath”, “aliasName” and “type” (type of selected item, it can be “masterClip”/”subClip”/”roughCut”/”unKnown”), for subclip selection, its “frameRate”, “startTime”, “duration” and “markerID” will be shown as an extra node.

XML (*MasterClip selected*):

```
<hostNotification>
    <browserID ID="MediaCollection"/>

    <msgID ID="879a2379-fdbc-4107-86fe-5abbb4c62940"/>

    <taskID ID="879a2379-fdbc-4107-86fe-5abbb4c62940"/>

    <selectedItemInfoList>

        <selectedItemInfo>

            <filePath path="D:\Workspace\testmedia\XDCAMHD250\Clip\C0001.MXF"/>
```


<aliasName>C0001</aliasName>

<type>masterClip</type>

</selectedItemInfo>

</selectedItemInfoList>

</hostNotification>

XML (*SubClip selected*):

<hostNotification>

<browserID ID="MediaCollection"/>

<msgID ID="8d2b5bf8-f6be-495e-aced-9a5838be3909"/>

<taskID ID="8d2b5bf8-f6be-495e-aced-9a5838be3909"/>

<selectedItemInfoList>

<selectedItemInfo>

<filePath path="D:\Workspace\testmedia\XDCAMHD250\Clip\C0001.MXF"/>

<aliasName> C0001_01</aliasName>

<type>subClip</type>

<subClipInfo>

<frameRate>f30000s1001</frameRate>

<startTime>176</startTime>

<duration>59</duration>

<markerID>c902b803-5e22-4b89-842a-251004de5c88</markerID>

</subClipInfo>

</selectedItemInfo>

</selectedItemInfoList>

</hostNotification>

79. Message Type: * com.adobe.browser.event.GetMediaPropertyInfo *****

Note: [Library/Project] The browser sends this event to host when user wants to get media properties like start time, duration, framerate.

XML:

<browserMessage>

<browserID ID="EABROWSER"/>

<taskID ID="6593d616-a748-263d-2375-b37169c94e46"/>

<msgID ID="b48a2935-4c68-fcb4-d275-b37169c99775"/>

<mediaPropertyInfo>

<assetID ID="ac0dff59-c6fd-c4ce-80b6-b37169c9100a"/>

<filePath path="D:\Workspace\testmedia\CBN\LEAD243 Duever, Mike AM v5.MXF"/>

</mediaPropertyInfo>

</browserMessage>

80. Message Type: * com.adobe.host.notification.GetMediaPropertyInfoStatus *****

Note: [Library/Project] The host sends this event to browser including media properties like start time, duration, framerate.

If the result is ERROR, the media properties may be empty.

The frameRate format can be f30000s1001 or f50. The startTime and duration are in frames.

XML:

<hostNotification>

<browserID ID="EABROWSER"/>

<msgID ID="b48a2935-4c68-fcb4-d275-b37169c99775"/>

<taskID ID="6593d616-a748-263d-2375-b37169c94e46"/>

<mediaPropertyInfo>

<assetID ID="ac0dff59-c6fd-c4ce-80b6-b37169c9100a"/>

<filePath path="D:\Workspace\testmedia\CBN\LEAD243 Duever, Mike AM v5.MXF"/>

<frameRate>f30000s1001</frameRate>

<startTime>107892</startTime>

<duration>6129</duration>

</mediaPropertyInfo>

<result>OK|ERROR</result>

</hostNotification>

81. Message Type: * com.adobe.browser.event.ReadXMPFromCache *****

Note: [Project] The browser sends this message to the host to get the XMP for a file. There can only be one assetMediaInfo in assetMediaInfoList.

XML:

<browserMessage>

 <browserID ID="EABROWSER_SOURCE"/>

 <msgID ID="3c498d33-3a37-66fa-44ff-623053e901a7"/>

 <taskID ID="551be134-3812-4f42-83ba-23230bd84af9"/>

 <assetMediaInfoList>

 <assetMediaInfo>

 <filePath path="C:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF"/>

 <assetID ID="3a798dfc-f332-46f2-82ff-02f053e90cbb"/>

 <type>masterClip</type>

 <fileMetadata>

 <xmp/>

 </fileMetadata>

 </assetMediaInfo>

```
</assetMediaInfoList>

</browserMessage>
```

82. Message Type: *** com.adobe.host.notification.ReadXMPFromCacheStatus ***

Note: [Project] The host sends this message to the browser as a response to "com.adobe.browser.event.ReadXMPFromCache"

XML:

```
<hostNotification>

  <browserID ID="EABROWSER_SOURCE"/>

  <msgID ID="3c498d33-3a37-66fa-44ff-623053e901a7"/>

  <taskID ID="551be134-3812-4f42-83ba-23230bd84af9"/>

  <assetMediaInfoList>

    <assetMediaInfo>

      <filePath path="C:\Media\XDCAM HD Wiffle test\Clip\C0001.MXF"/>

      <assetID ID="3a798dfc-f332-46f2-82ff-02f053e90cbb"/>

      <type>masterClip</type>

      <fileMetadata>

        <xmp><![CDATA[...]]></xmp>

      </fileMetadata>

    </assetMediaInfo>

  </assetMediaInfoList>

  <result>OK|ERROR</result>

</hostNotification>
```

83. Message Type: *** com.adobe.browser.event.TriggerSaveAsset***

Note: [Library/Project] The browser sends this event to host when browser wants to save the changes in Timeline.

In the content, <assetItemList></assetItemList> is optional. If you want to specify the saved item, you can use it. If you just want to save all, it can be omitted. If <assetItemList> is not available, Prelude will save the clip and roughcut which are opened & dirty in timeline.

XML:

```

<browserMessage>

  <browserID ID="EABROWSER"/>

  <taskID ID="6593d616-a748-263d-2375-b37169c94e46"/>

  <msgID ID="b48a2935-4c68-fcb4-d275-b37169c99775"/>

    <assetItemList>

      <assetItem order="1">

        <filePath
          path="C:\Users\marnold.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssembl
            ie s\RRR.xml" />

        </assetItem>

      </assetItemList>

    </browserMessage>

```

84. Message Type: *** com.adobe.host.notification.TriggerSaveAssetStatus***

Note: [Library/Project] The host sends this message to the browser as a response to "com.adobe.browser.event.TriggerSaveAsset"

If nothing opened in timeline or the opened asset is not dirty, the result will be ERROR. If both clip and roughcut are opened and dirty, there will be two TriggerSaveAssetStatus responses. One is for clip, the other is for roughcut. The latest XMP is in the response.

XML for a clip:

```

<hostNotification>

  <browserID ID="EABROWSER_SOURCE" />

  <msgID ID="e148e60d-0132-4d4d-b7ae-bee35a956e61" />

  <taskID ID="049eda6a-2fb9-4a38-9626-5b56d8c3c451" />

  <assetMediaInfoList>

    <assetMediaInfo>

      <filePath path="D:\movies\Three.MP4" />

      <assetID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99" />

      <type>masterClip</type>

      <changePath path="C:\Temp\Storage.xml" />

      <fileMetadata>

```

```

        <xmp><![CDATA[...]]></xmp>
    >

</fileMetadata>

<libraryMetadata>
    <fileLastModificationTime>2011-09-
22T16:01:51Z</fileLastModificationTime>

    <fileCreationTime>2010-10-05T17:17:20Z</fileCreationTime>

</libraryMetadata>

</assetMediaInfo>

</assetMediaInfoList>

<result>OK|ERROR</result>

</hostNotification>

```

XML for an assembly:

```

<hostNotification>

    <browserID ID="EABROWSER_SOURCE" />

    <msgID ID="efd53f63-9779-465c-86a4-60a380f56a02" />

    <taskID ID="de2be5cf-58bd-45cd-948b-5cdec2707535" />

    <assetMediaInfoList>

        <assetMediaInfo>

            <filePath
path="C:\Users\marnold.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml" />

            <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

            <type>roughCut</type>

            <rate>

                <timebase>24</timebase>

                <ntsc>TRUE</ntsc>

            </rate>

            <changePath path="C:\Temp\Storage.xml" />

            <fileMetadata>

```

<xmp><![CDATA[...]]></xmp>

</fileMetadata>

```

<libraryMetadata>

    <fileLastModificationTime>2011-09-
    22T16:01:51Z</fileLastModificationTime>

    <fileCreationTime>2011-08-30T08:52:44Z</fileCreationTime>

</libraryMetadata>

</assetMediaInfo>

</assetMediaInfoList>

<assetItemList>

    <assetItem order="1" >

        <filePath
path="C:\Users\marnold.ADOBENET\Documents\Adobe\Cottonwood\1.3\CWAssemblies\RRR.xml" />

        <mediaInfoID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <assetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f" />

        <type>roughCut</type>

        <assetItemList>

            <assetItem order="1" >

                <filePath path="D:\movies\Hellboy II.mov" />

                <mediaInfoID ID="1f75e31e-f98c-4382-88f4-fac69b6f9514" />

                <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"

/>

                <assetID ID="3d90b27d-ee5c-460d-a294-7705aa9bfa97" />

                <clipItemID ID="c29fdce3-a3c5-2256-8ec8-4a2e44923007" />

                <startTime>19631764152000</startTime>

                <duration>1758700944000</duration>

                <name>Hells Kitchen</name>

                <type>subClip</type>

```



```

        </assetItem>

        <assetItem order="2" >

            <filePath path="D:\movies\Three.MP4" />

            <mediaInfoID ID="2cc6ec2b-2fd7-4c26-99fa-4b465f56fc99" />

            <parentAssetID ID="62b2fc0a-d91e-47bb-b6c6-3fdeb286270f"

/>

            <assetID ID="e05e197a-5764-40b6-b599-02d77aee645a" />

            <frameRate>f254016000000</frameRate>

            <startTime>6070696632000</startTime>

            <duration>953512560000</duration>

            <name>Teiko</name
                >

            <type>subClip</type
                >

        </assetItem>

    </assetItemList>

</assetItem>

</assetItemList>

<result>OK|ERROR</result>

```

</hostNotification>

85. Message Type: *** com.adobe.host.notification.ExportResultInfo***

Note: [Library/Project] The host sends this message to the browser when Export is executed.

For export to FTP, the projectFile path is

"<projectFile>username@10.162.151.14\leitest\111.prproj</projectFile>".

XML:

```

<hostNotification>
    <browserID ID="MediaCollection"/>
    <msgID ID="5b92aef0-469a-4c50-be9a-c60170636341"/>
    <taskID ID="f9cebb48-bf51-4844-8adb-d240df4ed80c"/>
    <exportResultInfo>
        <projectFile>C:\Users\lei.ADOBENET\Desktop\dst\2012-11-28_09-17-40\111.prproj</projectFile>
        <projectType>PrProj|FCP</projectType>
    </exportResultInfo>
    <result>OK|ERROR</result>
</hostNotification>

```

86. Message Type: *** com.adobe.browser.event.GetAssociatedFiles***

Note: [Library/Project] The browser sends this event to host when user wants to get paths of associated files of a specific clip.

XML:

```
<browserMessage>
  <browserID ID="EABROWSER"/>
  <taskID ID="6593d616-a748-263d-2375-b37169c94e46"/>
  <msgID ID="b48a2935-4c68-fcb4-d275-b37169c99775"/>
  <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_01\833_0044_01.MP4"/>
</browserMessage>
```

87. Message Type: *** com.adobe.host.notification.GetAssociatedFilesStatus***

Note: [Library/Project] The host sends this event to browser including all pathes of associated files.

XML:

com.adobe.host.notification.GetAssociatedFilesStatus

```
<hostNotification>
  <browserID ID="MediaCollection"/>
  <msgID ID="b48a2935-4c68-fcb4-d275-b37169c99775"/>
  <taskID ID="6593d616-a748-263d-2375-b37169c94e46"/>
  <fileList>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_01\833_0044_01.MP4"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_01\833_0044_01M01.XML"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_01\833_0044_01R01.BIM"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_01\833_0044_01I01.PPN"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_01\833_0044_01.SMI"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_01\833_0044_01M01.XMP"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_02\833_0044_02.MP4"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_02\833_0044_02M01.XML"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_02\833_0044_02R01.BIM"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_02\833_0044_02I01.PPN"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_02\833_0044_02.SMI"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_02\833_0044_02M01.XMP"/>
  </fileList>
</hostNotification>
```

```

    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\TAKR\833_0044\833_0044M01.XML"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\TAKR\833_0044\833_0044.SMI"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\MEDIAPRO.XML"/>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CUEUP.XML"/>
    <filePath path="Z:\MediaFile\video\Span clips\XDCAMEX\badminton20100620\disk1\BPAV\TAKR"/>
</fileList>
    <filePath path="Z:\MediaFile\video\Span
clips\XDCAMEX\badminton20100620\disk1\BPAV\CLPR\833_0044_01\833_0044_01.MP4"/>
    <clipFormat>XDCAMEX</clipFormat>
</hostNotification>

```

88. Message Type: *****com.adobe.browser.event.TranscodeRequest*****

Note: [Library/Project] The browser sends this event to host when user wants to transcode single file
 presetPath could be preset's fullpath or relative path to C:\Users_Current_active_user_\Documents
 when <outputFileName> is not provided, the source filename will be used for the destination filename.
 When the destination file has already existed, the transcoded file will be renamed to avoid confliction.
 The transcoded destination filename info will be given in **com.adobe.host.notification.TranscodeStatus**.
 <outputXMP>true|false</outputXMP> can control whether to generate XMP file with the destination file.

XML:

```

<browserMessage>
<browserID ID="EABROWSER"/>
<taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
<msgID ID="f493bad6-d752-4d19-96c3-53febcd3279a"/>
<presetPath> D:\Transcode\AVC-Intra Class50 720 24p.epr </presetPath >
<outputDirectory path="C:\Clips"/>
<outputXMP>true|false</outputXMP>
<transcodeItemList>
  <transcodeItem>
    <filePath path="C:\Clips\MVI_113115123.MOV"/>
    <outputFileName>Demo.avi</outputFileName>
    <frameRate>f30</frameRate>
    <startTime>90</startTime>
    <duration>124</duration>
  </transcodeItem>
</transcodeItemList>
</browserMessage>

```

89. Message Type: *****com.adobe.browser.event.TranscodeCancel*****

Note: [Library/Project] The browser sends this event to host when user wants to cancel transcode request.

XML:

```
<browserMessage>
  <browserID ID="EABROWSER"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>
</browserMessage>
```

90. Message Type: ***com.adobe.host.notification.TranscodeProgress***

Note: [Library/Project] The progress update is for single request. The range is [0, 100].
Only if the transcode begins, progress update will be sent out.

XML:

```
<hostNotification>
  <browserID ID="EABROWSER"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="9063fb99-169d-4053-a889-bc0733f1eabc"/>
  <percentage>10</percentage>
</hostNotification>
```

91. Message Type: ***com.adobe.host.notification.TranscodeStatus***

Note: [Library/Project] When the transcode is completed or cancelled by Library, the transcode result will be sent out.

There is a total result OK|ERROR|Canceled for the whole request. If the request is canceled, the result is Canceled. If the request is finished, the result is OK or ERROR

For ERROR|Canceled result, errorInfo contains detailed error info.

When transcode is done, the result is OK and OutPutFilePath contains output file's full path.

If transcode is not done for user cancel, the result is Canceled.

XML:

```
<hostNotification>
  <browserID ID="EABROWSER_SOURCE"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="c7f61b43-7c51-4aaf-81e9-b03e72aab200"/>
  <OutPutFilePath> C:\Clips\MVI_113115123.avi</OutPutFilePath>
  <!-- If output file name had been changed during transcode, we will put the result here. If result
tag is Error, OutPutFilePath is meaningless-->
  <result>OK|Error|Canceled</result>
  <errorInfo>Cancelled</errorInfo>
</hostNotification>
```

92. Message Type: ***com.adobe.browser.event.ConcatenationRequest***

Note: [Library/Project] The browser sends this event to host when user wants to concatenate multiple files

presetPath could be preset's fullpath or relative path to C:\Users_Current_active_user_\Documents

<outputXMP>true|false</outputXMP> can control whether to generate XMP file with the destination file.

XML:

```
<browserMessage>
<browserID ID="EABROWSER"/>
<taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
<msgID ID="f493bad6-d752-4d19-96c3-53febcd3279a"/>
<presetPath> Presets\AVC-Intra Class50 720 24p.epr </presetPath >
<!-- Note: Relative path which relative to C:\Users\_Current_active_user_\Documents -->
<outputDirectory path="D:\TranscodeMedia"/>
<outputFileName>Demo.avi</outputFileName>
<outputXMP>true|false</outputXMP>
<concatenationItemList>
  <concatenationItem order="2">
    <filePath path="C:\Clips\MVI_113115123.MOV"/>
    <frameRate>f25</frameRate>
    <startTime>79</startTime>
    <duration>93</duration>
  </concatenationItem >
  <concatenationItem order="1">
    <filePath path="C:\Clips\friends\Season 1\18 0118. The One With the Poker.mp4"/>
    <frameRate>f25</frameRate>
    <startTime>79</startTime>
    <duration>93</duration>
  </concatenationItem >
</concatenationItemList>
</browserMessage>
```

93. Message Type: *****com.adobe.browser.event.ConcatenationCancel*****

Note: [Library/Project] The browser sends this event to host when user wants to cancel Concatenation request.

XML:

```
<browserMessage>
  <browserID ID="EABROWSER"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>
</browserMessage>
```

94. Message Type: *****com.adobe.host.notification.ConcatenationProgress*****

Note: [Library/Project] The progress update is for single request. The range is [0, 100]. Only if the concatenation begins, progress update will be sent out.

XML:

```
<hostNotification>
  <browserID ID="EABROWSER"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
```

```
<msgID ID="9063fb99-169d-4053-a889-bc0733f1eabc"/>
<percentage>10</percentage>
</hostNotification>
```

95. Message Type: *****com.adobe.host.notification.ConcatenationStatus*****

Note: [Library/Project] When the concatenation is completed or cancelled by Library, the concatenation result will be sent out.

There is a total result OK|ERROR|Canceled for the whole request. If the request is canceled, the result is Canceled. If the request is finished, the result is OK or ERROR

For ERROR|Canceled result, errorInfo contains detailed error info.

When concatenation is done, the result is OK and OutPutFilePath contains output file's full path.

If concatenation is not done for user cancel, the result is Canceled.

XML:

```
<hostNotification>
  <browserID ID="EABROWSER_SOURCE"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="c7f61b43-7c51-4aaf-81e9-b03e72aab200"/>
  <OutPutFilePath>D:\TranscodeMedia\Demo.avi</OutPutFilePath>
  <!-- If output file name had been changed during concatenation, we will put the result here. If
result tag is Error, OutPutFilePath is meaningless-->
  <result>OK|Error|Canceled</result>
  <errorInfo>Cancelled</errorInfo>
</hostNotification>
```

96. Message Type: *****com.adobe.browser.event.GetCurrentWorkMode*****

Note: [Library/Project] The browser sends this event to host to request current work mode in host.

XML:

```
<browserMessage>
  <browserID ID="EABROWSER"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>
</browserMessage>
```

97. Message Type: *****com.adobe.host.notification.GetCurrentWorkModeStatus*****

Note: [Library/Project] The host sends this message to browser including the work mode information.

XML:

```
<hostNotification>
  <browserID ID="EABROWSER"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="9063fb99-169d-4053-a889-bc0733f1eabc"/>
  <currentWorkMode>Native|Flash</currentWorkMode>
</hostNotification>
```

98. Message Type: *com.adobe.browser.event.IsPremiereProInstalled*****

Note: [Library/Project] The browser sends this event to host to check if Premiere Pro is installed.

XML:

```
<browserMessage>
  <browserID ID="EABROWSER"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>
</browserMessage>
```

99. Message Type: *com.adobe.host.notification.IsPremiereProInstalledStatus*****

Note: [Library/Project] The host sends this message to browser to inform if Premiere Pro is installed.

XML:

```
<hostNotification>
  <browserID ID="EABROWSER"/>
  <taskID ID="511ccba4-f7b1-4493-a18f-e82d07ebf055"/>
  <msgID ID="672be504-39b2-3bd8-5156-44c826ce2288"/>
  <installed>true|false</installed>
</hostNotification>
```

100. Message Type: * com.adobe.host.notification.BackupItemsReady*****

Note: [Library/Project] The host sends this message to browser after copying backup items is finished. Client can listen to this message to do some post operation for backup items, such as applying minimum metadata.

The message contains the list of backup files, as well as their extra paths if they are folder-based.

If we have a minimum metadata dialog, we will fill <customMetadata> tag. Client can use this data to perform applying minimum metadata.

XML:

```
<hostNotification>
  <browserID ID=" EABROWSER" />
  <msgID ID="4c2a861d-927c-4db3-b664-e735944c1393" />
  <taskID ID="a289e6a8-d0e8-45a5-a545-5c6c2f1f1855" />
  <ingestItemList>
    <ingestItem>
      <filePath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-28\2013TechSummit\AVCHD\BDMV\STREAM\00005.MTS" />
      <aliasName>00005.MTS</aliasName>
      <clipFormat>AVCHD</clipFormat>
      <extraPathList>
        <extraPath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-
```

```

28\2013TechSummit\AVCHD\BDMV\CLIPINF\00005.CPI" />
    <extraPath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-
28\2013TechSummit\AVCHD\BDMV\STREAM\00005.xmp" />
    <extraPath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-
28\2013TechSummit\AVCHD\BDMV\PLAYLIST\00000.MPL" />
    <extraPath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-
28\2013TechSummit\AVCHD\BDMV\MOVIEOBJ.BDM" />
    <extraPath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-
28\2013TechSummit\AVCHD\BDMV\index.bdm" />
    <extraPath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-
28\2013TechSummit\AVCHD\BDMV\STREAM\" />
    <extraPath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-
28\2013TechSummit\AVCHD\BDMV\PLAYLIST\" />
    <extraPath path="C:\Users\xinchen.ADOBENET\Desktop\Export_EFT\2013-10-21_17-46-
28\2013TechSummit\AVCHD\BDMV\CLIPINF\" />
  </extraPathList>
</ingestItem>
</ingestItemList>
<customMetadata>
  <minimumMetadata>
    <namespace URI="http://ns.cnn.com/xmp/1.0/" prefix="xmpCNN">
      <city />
      <country />
      <county />
      <otherLocation />
      <photoJournalist>Test1</photoJournalist>
      <shotDate>10/21/2013</shotDate>
      <slug>Test2</slug>
      <source>Test3</source>
      <state />
      <summary>Test4</summary>
    </namespace>
    <storeEmptyInfo> true|false</storeEmptyInfo>
    <applyToAllDestinations> true|false</applyToAllDestinations>
  </minimumMetadata>
</customMetadata>
  <batchID ID="54d613bf-2309-4c9f-9945-4cdb4f6cd9c" />
</hostNotification>

```

101. Message Type: ***com.adobe.browser.event.SendTagTemplate***

Note: [Library/Project] The browser sends this event to host to add a new tag template into tag template panel.

XML:

```

<browserMessage>
  <browserID ID="MediaCollection"/>
  <taskID ID="bcf7cd44-30ec-d77d-b925-91940bd1b383"/>
  <msgID ID="7795db23-106a-5b4a-6c02-f923555a8791"/>

```



```

<tagTemplateInfoList>
  <tagTemplateInfo>
    <tagTemplateInfoID>test tag template</tagTemplateInfoID>
    <tagTemplateInfoContent>
      {
        "version": "1.0",
        "guid": "bd2b034b-287e-48f9-bfe2-3bc99998ce24",
        "name": "Untitled Tag Template",
        "dimension":
        {
          "rows": "6",
          "columns": "5"
        },
        "size":
        {
          "width": "100",
          "height": "100"
        },
        "margin":
        {
          "width": "0",
          "height": "0"
        },
        "tags": ""
      }
    </tagTemplateInfoContent>
  </tagTemplateInfo>
</tagTemplateInfoList>
<tagTemplateOption>Overwrite</tagTemplateOption>
</browserMessage>

```

102. Message Type: ***com.adobe.host.notification.SendTagTemplateStatus***

Note: [Library/Project] The host sends this message to browser to inform tag template sending result.

XML:

```

<hostNotification>
  <browserID ID="MediaCollection"/>
  <msgID ID="7795db23-106a-5b4a-6c02-f923555a8791"/>
  <taskID ID="bcf7cd44-30ec-d77d-b925-91940bd1b383"/>
  <tagTemplateResultList>
    <tagTemplateResult>
      <tagTemplateInfoID>test tag template</tagTemplateInfoID>
      <result>OK|ERROR</result>
    </tagTemplateResult>
  </tagTemplateResultList>
</hostNotification>

```

103. Message Type: ***com.adobe.host.notification.MarkerChanged***

Note: [Library/Project] The host sends this message to browser to inform one or more markers changed.

XML:

```
<hostNotification>
  <browserID ID="MediaCollection"/>
  <msgID ID="c62ac3d8-90f9-4b85-8935-0cbcf5a6c976"/>
  <taskID ID="e83a1d5b-b801-4d69-8ff0-023b43a4fb54"/>
  <markerInfoList>
    <markerInfo>

      <ownerClipPath>C:\Users\lei.ADOBENET\Desktop\temp\P2_AVCI\Commute\CONTENT
      S\VIDEO\000441.MXF</ownerClipPath>
    <marker>
      <prop.list>
        <prop.pair>
          <key>comment</key>
          <string>jh</string>
        </prop.pair>
        <prop.pair>
          <key>cuePointParams</key>
          <prop.list>
            </prop.list>
          </prop.pair>
        <prop.pair>
          <key>cuePointType</key>
          <string></string>
        </prop.pair>
        <prop.pair>
          <key>duration</key>
          <string>21940</string>
        </prop.pair>
        <prop.pair>
          <key>frameRate</key>
          <string>f30000s1001</string>
        </prop.pair>
        <prop.pair>
          <key>guid</key>
          <string>9584e186-ea2b-4f00-a4f2-4c46986ec40c</string>
        </prop.pair>
        <prop.pair>
          <key>location</key>
          <string></string>
        </prop.pair>
        <prop.pair>
          <key>name</key>
```

```

        <string>asdfsalfjjj</string>
    </prop.pair>
    <prop.pair>
        <key>probability</key>
        <string></string>
    </prop.pair>
    <prop.pair>
        <key>speaker</key>
        <string></string>
    </prop.pair>
    <prop.pair>
        <key>startTime</key>
        <string>0</string>
    </prop.pair>
    <prop.pair>
        <key>tagList</key>
        <prop.list>
            </prop.list>
        </prop.pair>
    <prop.pair>
        <key>target</key>
        <string></string>
    </prop.pair>
    <prop.pair>
        <key>type</key>
        <string>Comment</string>
    </prop.pair>
</prop.list>
</marker>
</markerInfo>
</markerInfoList>
</hostNotification>

```

104. Message Type: ***com.adobe.host.notification.MarkerAdded***

Note: [Library/Project] The host sends this message to browser to inform one or more markers added.

XML:

```

<hostNotification>
    <browserID ID="MediaCollection"/>
    <msgID ID="c62ac3d8-90f9-4b85-8935-0cbcf5a6c976"/>
    <taskID ID="e83a1d5b-b801-4d69-8ff0-023b43a4fb54"/>
    <markerInfoList>
        <markerInfo>

            <ownerClipPath>C:\Users\lei.ADOBENET\Desktop\temp\P2_AVCI\Commute\CONTENT
            S\VIDEO\000441.MXF</ownerClipPath>
        </marker>
    </markerInfo>
    </markerInfoList>
</hostNotification>

```

```
<prop.list>
  <prop.pair>
    <key>comment</key>
    <string>jh</string>
  </prop.pair>
  <prop.pair>
    <key>cuePointParams</key>
    <prop.list>
    </prop.list>
  </prop.pair>
  <prop.pair>
    <key>cuePointType</key>
    <string></string>
  </prop.pair>
  <prop.pair>
    <key>duration</key>
    <string>21940</string>
  </prop.pair>
  <prop.pair>
    <key>frameRate</key>
    <string>f30000s1001</string>
  </prop.pair>
  <prop.pair>
    <key>guid</key>
    <string>9584e186-ea2b-4f00-a4f2-4c46986ec40c</string>
  </prop.pair>
  <prop.pair>
    <key>location</key>
    <string></string>
  </prop.pair>
  <prop.pair>
    <key>name</key>
    <string>asdfsalfjjj</string>
  </prop.pair>
  <prop.pair>
    <key>probability</key>
    <string></string>
  </prop.pair>
  <prop.pair>
    <key>speaker</key>
    <string></string>
  </prop.pair>
  <prop.pair>
    <key>startTime</key>
    <string>0</string>
  </prop.pair>
</prop.list>
```

```

        <prop.pair>
            <key>tagList</key>
            <prop.list>
            </prop.list>
        </prop.pair>
        <prop.pair>
            <key>target</key>
            <string></string>
        </prop.pair>
        <prop.pair>
            <key>type</key>
            <string>Comment</string>
        </prop.pair>
    </prop.list>
</marker>
</markerInfo>
</markerInfoList>
</hostNotification>

```

105. Message Type: ***com.adobe.host.notification.MarkerDeleted***

Note: [Library/Project] The host sends this message to browser to inform one or more markers deleted.

XML:

```

<hostNotification>
    <browserID ID="MediaCollection"/>
    <msgID ID="c62ac3d8-90f9-4b85-8935-0cbcf5a6c976"/>
    <taskID ID="e83a1d5b-b801-4d69-8ff0-023b43a4fb54"/>
    <markerInfoList>
        <markerInfo>

            <ownerClipPath>C:\Users\lei.ADOBENET\Desktop\temp\P2_AVCI\Commute\CONTENT
            S\VIDEO\000441.MXF</ownerClipPath>
        <marker>
            <prop.list>
                <prop.pair>
                    <key>comment</key>
                    <string>jh</string>
                </prop.pair>
                <prop.pair>
                    <key>cuePointParams</key>
                    <prop.list>
                    </prop.list>
                </prop.pair>
                <prop.pair>
                    <key>cuePointType</key>
                    <string></string>
                </prop.pair>
            </prop.list>
        </marker>
    </markerInfoList>
</hostNotification>

```

```
<prop.pair>
  <key>duration</key>
  <string>21940</string>
</prop.pair>
<prop.pair>
  <key>frameRate</key>
  <string>f30000s1001</string>
</prop.pair>
<prop.pair>
  <key>guid</key>
  <string>9584e186-ea2b-4f00-a4f2-4c46986ec40c</string>
</prop.pair>
<prop.pair>
  <key>location</key>
  <string></string>
</prop.pair>
<prop.pair>
  <key>name</key>
  <string>asdfsalfjjj</string>
</prop.pair>
<prop.pair>
  <key>probability</key>
  <string></string>
</prop.pair>
<prop.pair>
  <key>speaker</key>
  <string></string>
</prop.pair>
<prop.pair>
  <key>startTime</key>
  <string>0</string>
</prop.pair>
<prop.pair>
  <key>tagList</key>
  <prop.list>
  </prop.list>
</prop.pair>
<prop.pair>
  <key>target</key>
  <string></string>
</prop.pair>
<prop.pair>
  <key>type</key>
  <string>Comment</string>
</prop.pair>
</prop.list>
```

```

    </marker>
  </markerInfo>
</markerInfoList>
</hostNotification>

```

106. Message Type: *****com.adobe.host.notification.MarkerSelectionChanged*****

Note: [Library/Project] The host sends this message to browser to inform one or more markers selected.

XML:

```
<hostNotification>
  <browserID ID="MediaCollection"/>
  <msgID ID="c62ac3d8-90f9-4b85-8935-0cbcf5a6c976"/>
  <taskID ID="e83a1d5b-b801-4d69-8ff0-023b43a4fb54"/>
  <markerInfoList>
    <markerInfo>

      <ownerClipPath>C:\Users\lei.ADOBENET\Desktop\temp\P2_AVCI\Commute\CONTENT
      S\VIDEO\000441.MXF</ownerClipPath>
      <marker>
        <prop.list>
          <prop.pair>
            <key>comment</key>
            <string>jh</string>
          </prop.pair>
          <prop.pair>
            <key>cuePointParams</key>
            <prop.list>
              </prop.list>
            </prop.pair>
            <prop.pair>
              <key>cuePointType</key>
              <string></string>
            </prop.pair>
            <prop.pair>
              <key>duration</key>
              <string>21940</string>
            </prop.pair>
            <prop.pair>
              <key>frameRate</key>
              <string>f30000s1001</string>
            </prop.pair>
            <prop.pair>
              <key>guid</key>
              <string>9584e186-ea2b-4f00-a4f2-4c46986ec40c</string>
            </prop.pair>
            <prop.pair>
              <key>location</key>

```

```

        <string></string>
    </prop.pair>
    <prop.pair>
        <key>name</key>
        <string>asdfsalfjjj</string>
    </prop.pair>
    <prop.pair>
        <key>probability</key>
        <string></string>
    </prop.pair>
    <prop.pair>
        <key>speaker</key>
        <string></string>
    </prop.pair>
    <prop.pair>
        <key>startTime</key>
        <string>0</string>
    </prop.pair>
    <prop.pair>
        <key>tagList</key>
        <prop.list>
            </prop.list>
    </prop.pair>
    <prop.pair>
        <key>target</key>
        <string></string>
    </prop.pair>
    <prop.pair>
        <key>type</key>
        <string>Comment</string>
    </prop.pair>
</prop.list>
</marker>
</markerInfo>
</markerInfoList>
</hostNotification>

```

107. DOM API: “app.metadata.addMarker(markerXML)”

Note: [Library/Project] The custom panel can call this API to add a new marker for the opened clip.

There must be a clip opened in timeline. Or this function will fail.

Param markerXML content is in XML format as shown below.

If custom panel does not want to set a marker property, the property is not needed to include in the markerXML content and the default value will be used. For example, if comment is not included in markerXML, the new marker’s comment is empty. If guid is not included, a new guid will be generated for the new marker. If the marker type is not set, the marker will be a Comment marker.

If the guid is present but the clip has a marker with the same guid, then this function will fail.

<marker>


```
<prop.list>
  <prop.pair>
    <key>comment</key>
    <string>jh</string>
  </prop.pair>
  <prop.pair>
    <key>cuePointParams</key>
    <prop.list>
    </prop.list>
  </prop.pair>
  <prop.pair>
    <key>cuePointType</key>
    <string></string>
  </prop.pair>
  <prop.pair>
    <key>duration</key>
    <string>21940</string>
  </prop.pair>
  <prop.pair>
    <key>frameRate</key>
    <string>f30000s1001</string>
  </prop.pair>
  <prop.pair>
    <key>guid</key>
    <string>9584e186-ea2b-4f00-a4f2-4c46986ec40c</string>
  </prop.pair>
  <prop.pair>
    <key>location</key>
    <string></string>
  </prop.pair>
  <prop.pair>
    <key>name</key>
    <string>asdfsalfjjjj</string>
  </prop.pair>
  <prop.pair>
    <key>probability</key>
    <string></string>
  </prop.pair>
  <prop.pair>
    <key>speaker</key>
    <string></string>
  </prop.pair>
  <prop.pair>
    <key>startTime</key>
    <string>0</string>
  </prop.pair>
```

```

    <prop.pair>
      <key>tagList</key>
      <prop.list>
      </prop.list>
    </prop.pair>
    <prop.pair>
      <key>target</key>
      <string></string>
    </prop.pair>
    <prop.pair>
      <key>type</key>
      <string>Comment</string>
    </prop.pair>
  </prop.list>
</marker>

```

108. DOM API: “app.metadata.updateMarker(markerXML)”

Note: [Library/Project] The custom panel can call this API to update an existed marker in the opened clip. There must be a clip opened in timeline. Or this function will fail.

Param markerXML content is in XML format as shown below.

If custom panel does not want to update a marker property, the property is not needed to include in the markerXML content and the value will not be changed. For example, if comment is not included in markerXML, the marker’s comment will not be changed.

If the clip cannot find the marker with the same guid, then this function will fail.

```

<marker>
  <prop.list>
    <prop.pair>
      <key>comment</key>
      <string>jh</string>
    </prop.pair>
    <prop.pair>
      <key>cuePointParams</key>
      <prop.list>
      </prop.list>
    </prop.pair>
    <prop.pair>
      <key>cuePointType</key>
      <string></string>
    </prop.pair>
    <prop.pair>
      <key>duration</key>
      <string>21940</string>
    </prop.pair>
    <prop.pair>
      <key>frameRate</key>
      <string>f30000s1001</string>
    </prop.pair>
  </prop.list>
</marker>

```

```

<prop.pair>
  <key>guid</key>
  <string>9584e186-ea2b-4f00-a4f2-4c46986ec40c</string>
</prop.pair>
<prop.pair>
  <key>location</key>
  <string></string>
</prop.pair>
<prop.pair>
  <key>name</key>
  <string>asdfsalfjjj</string>
</prop.pair>
<prop.pair>
  <key>probability</key>
  <string></string>
</prop.pair>
<prop.pair>
  <key>speaker</key>
  <string></string>
</prop.pair>
<prop.pair>
  <key>startTime</key>
  <string>0</string>
</prop.pair>
<prop.pair>
  <key>tagList</key>
  <prop.list>
  </prop.list>
</prop.pair>
<prop.pair>
  <key>target</key>
  <string></string>
</prop.pair>
<prop.pair>
  <key>type</key>
  <string>Comment</string>
</prop.pair>
</prop.list>
</marker>

```

109. DOM API: “app.metadata.setMetadataValue(namespace, key, value)”

Note: [Library/Project] The custom panel can call this API to change a metadata value in the selected clip. Params are shown below.

Namespace is the metadata namespace, for example, <http://ns.adobe.com/xmp/1.0/DynamicMedia/>.

Key is the metadata property, for example, shotName.

Value is the new value for the metadata, for example, test.

So the panel can call

`app.metadata.setMetadataValue("http://ns.adobe.com/xmp/1.0/DynamicMedia/", "shotName","test")`
then the metadata "Dynamic Media/shotName" will be "test".

110. DOM API: "app.getAppSystemPrefPath"

Note: [Library/Project] The custom panel can call this API to get Prelude system preference path. It takes no param.

In Win, the path is [Drive]:/Program Files/Common Files/Adobe/[AppName]/

In MAC, the path is /Library/Application Support/Adobe/[AppName]/

111. DOM API: "app.metadata.deleteMarker(markerXML)"

Note: [Library/Project] The custom panel can call this API to delete an existed marker in the opened clip. There must be a clip opened in timeline. Or this function will fail.

Param markerXML content is in XML format as shown below.

If the clip cannot find the marker with the guid, then this function will fail.

```
<marker>
  <prop.list>
    <prop.pair>
      <key>guid</key>
      <string>9584e186-ea2b-4f00-a4f2-4c46986ec40c</string>
    </prop.pair>
  </prop.list>
</marker>
```

112. DOM API: "app.project.deleteAsset(assetPath)"

Note: [Project] The custom panel can call this API to delete an existed asset from the project.

Param assetPath is the asset's path.

If the clip cannot find the asset with the path, then an error event will be report.