Example

Playback Groups - Create and Add

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description:	basic functionality: creating a playback group and adding some playbacks
remarks:	with great support by Gregory Haynes

PlaybackGroup, group, create, add, ienumerable

Playback Groups were introduced with Titan v13, January 2020. This functionality is not available in earlier versions.

This example is meant to show how Playback Groups are created, how playbacks are added, how the various parameters are conveyed, and which caveats need to be taken care of. Particular attention should be paid to setting IEnureables.

functions

- Handles.SetSourceHandleRange
- Handles.ClearSelection
- PlaybackGroups.CreatePlaybackGroupWithPlaybacks
- Playbacks.FilterByPlaybackHandle
- PlaybackGroups.SetCurrentPlaybackGroupFromUserNumber

affected properties

- Handles.ContextHandles
- PlaybackGroups.CurrentPlaybackGroup

Code

PlaybackGroupsBasics.xml

```
<?xml version="1.0" encoding="utf-8"?>
<avolites.macros>

<!-- 1 -->
<!-- adding playbacks selected by location to a new playback group -->

  <macro id="Wiki.Macros.PlaybackGroups.Test.AddPB12tonewPBG" name="Add
Playbacks 1 and 2 to new PBG">
    <sequence>
      <step>Handles.SetSourceHandleRange("Playbacks", {0, 1})</step>
      <step>PlaybackGroups.CreatePlaybackGroupWithPlaybacks("Test",
Playbacks.FilterByPlaybackHandle(Handles.ContextHandles))</step>
```

```
      <step>Handles.ClearSelection()</step>
    </sequence>
  </macro>

<!-- the new PBG is also current as in
PlaybackGroups.CurrentPlaybackGroup -->

<!-- 2 -->
<!-- adding playbacks selected by user numbers (string notation) to the
current playback group -->

  <macro id="Wiki.Macros.PlaybackGroups.Test.AddCue3CL1tocurrPBG"
name="Add Cue 3 CL 1 to curr PBG">
    <sequence>
<step>PlaybackGroups.AddPlaybacksToGroup(PlaybackGroups.CurrentPlayback
Group, "{cueHandleUN=3,cueListHandleUN=1}")</step>
    </sequence>
  </macro>

<!-- 3 -->
<!-- adding a playback selected by its user number to the current
playback group -->
<!-- this requires Playbacks.FilterByPlaybackHandle() to make sure it
is a playback handle -->

  <macro id="Wiki.Macros.PlaybackGroups.Test.AddPB2tocurrPBG" name="Add
PB 2 to curr PBG">
    <sequence>
<step>PlaybackGroups.AddPlaybacksToGroup(PlaybackGroups.CurrentPlayback
Group, Playbacks.FilterByPlaybackHandle(userNumber:2))</step>
    </sequence>
  </macro>

<!-- 4 -->
<!-- adding a playback selected by its user number to a specific
playback group selected by its user number -->
<!-- this requires the handle cast with a string
(handle:"playbackGroupHandleUN=1") to identify the playback group -->

  <macro id="Wiki.Macros.PlaybackGroups.Test.AddPB3toPBG1" name="Add PB
3 to PBG 1">
    <sequence>
<step>PlaybackGroups.AddPlaybacksToGroup(handle:"playbackGroupHandleUN=
1", "cueHandleUN=3")</step>
    </sequence>
  </macro>

<!-- 5 -->
<!-- adding a playback selected by its user number to a specific
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```
playback group selected by its user number -->
<!-- this time the playback group is selected by pointing
PlaybackGroups.CurrentPlaybackGroup to the user number -->

  <macro id="Wiki.Macros.PlaybackGroups.Test.AddCue3tocurrPBG2"
name="Add Cue 3 to curr PBG 2">
    <sequence>
<step>PlaybackGroups.SetCurrentPlaybackGroupFromUserNumber(2)</step>
<step>PlaybackGroups.AddPlaybacksToGroup(PlaybackGroups.CurrentPlayback
Group, "cueHandleUN=3")</step>
    </sequence>
  </macro>

<!-- 6 -->
<!-- adding playbacks identified by their TitanID to the current
playback group -->
<!-- No practical use as the TitanIDs are not really accessible -->

  <macro id="Wiki.Macros.PlaybackGroups.AddPBsByTitanId" name="Adding
PBs to PBG by TitanID">
    <sequence>
<step>PlaybackGroups.AddPlaybacksToGroup(PlaybackGroups.CurrentPlayback
Group, "{ 1812; 1999 }")</step>
    </sequence>
  </macro>

</avolites.macros>
```

Explanation

This explains the functional steps within the sequence. For all the other XML details please refer to Formats and syntax

These macros were created in order to show various ways to specify single or multiple playbacks. Basically `PlaybackGroups.CreatePlaybackGroupWithPlaybacks()` requires a name for the new group and an IEnumerable of playbacks handles to be added to the new group while `PlaybackGroups.AddPlaybacksToGroup()` requires the playback group handle and - again - an IEnumerable of playback handles.

- playback groups live only in their special window, hence there is no location to identify their handle
- you cannot set the playback group's user number when creating it. Thus you need to rely on the automatic numbering
- selecting a playback group by its user number requires extra casting
- there are some ways to pass handles as list to the required IEnumerable however some details need to be watched

Macro 1

Here the playbacks to be added to a new group are selected via SetSourceHandleRange which takes a handle group (window) and index - this operates always on the current page of this window, the index being 0-based. the set SourceHandleRange is then referenced as `Handles.ContextHandles`. Additionally this needs to be filtered by playback handles: the function `PlaybackGroups.CreatePlaybackGroupWithPlaybacks` lives in the namespace PlaybackGroups and would search for passed handles in its own namespace if not told otherwise.

- `Handles.SetSourceHandleRange("Playbacks", {0, 1})` selects playbacks 1 and 2 on the current playbacks page
- `PlaybackGroups.CreatePlaybackGroupWithPlaybacks()` creates a new playback group and adds some playbacks
    - "`Test`" is the name (legend) of the new playback group
    - `Playbacks.FilterByPlaybackHandle()` makes sure the passed list is assumed in the playbacks namespace, not in PlaybackGroups how the namespace of the function would imply
    - `Handles.ContextHandles` refers to the playbacks being selected with `Handles.SetSourceHandleRange()` in the first step
- `Handles.ClearSelection()` deselects the handles after everything is done

Macro 2

Two playbacks, identified by their user numbers in string notation, are added to the current playback group. Note that this relies on the current playback group being set previously (creating it in the macro above makes it current).

- `PlaybackGroups.AddPlaybacksToGroup()` adds playbacks to a playback group
    - `PlaybackGroups.CurrentPlaybackGroup` is the system property which denotes the currently selected playback group, e.g. still current after previously been created
    - "`{cueHandleUN=3,cueListHandleUN=1}`" list of playback user numbers in string notation to make clear these are playbacks of some type

Macro 3

A playback identified by its user number in standard notation is added to the current playback group (e.g. still current from previously being created, see above). As the playback's user number is in standard notation `Playbacks.FilterByPlaybackHandle()` is required to make sure it is a playback and not a playback group.

- `PlaybackGroups.AddPlaybacksToGroup()` adds playbacks to a playback group
    - `PlaybackGroups.CurrentPlaybackGroup` is the system property which denotes the currently selected playback group, e.g. still current after previously been created
    - `Playbacks.FilterByPlaybackHandle()` makes sure the passed list is looked up in the playbacks namespace
    - `userNumber:2` is the standard notation of a user number when denotin a handle

How to use it

1. make this macro available

tbd

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