

Example

# Playback Groups - Create and Add

<b>by:</b>	Sebastian Beutel, June 2021
<b>published:</b>	here
<b>description:</b>	basic functionality: creating a playback group and adding some playbacks
<b>remarks:</b>	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 `INenureables`.

## 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
```

```

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 playback 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 denoting a handle

## Macro 4

A playback identified by its user number (see [Macro 3](#)) is added to a specific playback group. This is denoted by its user number which requires additional casting.

- `PlaybackGroups.AddPlaybacksToGroup()` adds playbacks to a playback group
  - `handle: "playbackGroupHandleUN=1"` takes the playback group's user number in string notation and cast this into the required handle
  - `"cueHandleUN=3"` is the playback's user number in string notation. Unlike in [Macro 2](#) we don't need braces here as it is only one playback.

## Macro 5

A playback identified by its user number (see [Macro 3](#)) is added to a specific playback group. This is denoted by pointing `PlaybackGroups.CurrentPlaybackGroup` to the user number of the playback group - no additional casting required, and the property `PlaybackGroups.CurrentPlaybackGroup` is set for future operations as well.

- `PlaybackGroups.SetCurrentPlaybackGroupFromUserNumber(2)` points the property `PlaybackGroups.CurrentPlaybackGroup` to the playback group with user number 2.
- `PlaybackGroups.AddPlaybacksToGroup()` adds playbacks to a playback group.
  - `PlaybackGroups.CurrentPlaybackGroup` holds the previously set reference to playback group 2.
  - `"cueHandleUN=3"` is the playback's user number in string notation, see above. Unlike in [Macro 2](#) we don't need braces here as it is only one playback.

## How to use it

1. [make this macro available](#)

tbd

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