

**Von:** Gregory Haynes

**Gesendet:** Montag, 7. Juni 2021 16:15

**An:** Sebastian Beutel

**Betreff:** RE: macro question: adding playback to playback group

Hello,

There was an attempt to make it possible to pass in lists (IEnumerable) of handles, this was at least partially successful. If you pass in just a single user number, integer (Titan ID) or a string e.g. "cueHandleUN=3" it will treat that with a list with one item in it.

Examples:

```
PlaybackGroups.AddPlaybacksToGroup(handle:"pplaybackGroupHandleUN=1", "cueHandleUN=3")
```

```
PlaybackGroups.AddPlaybacksToGroup(PlaybackGroups.CurrentPlaybackGroup,  
Playbacks.FilterByPlaybackHandle(userNumber:2))
```

Note that in the second example I didn't just put `userNumber:2` as the parameter to `AddPlaybacksToGroup` as it would assume the user number referred to a playback group (based on the namespace/class the function is in). The `FilterByPlaybackHandle` function will take a list of any kind of handle and only return the handles which are playback handles and as it is part of `Playbacks` when automatically converting the user number it assumes it belongs to a playback.

When passing in multiple values they must all be in one string which is then split up, if the item is an integer number these will be treated as Titan IDs. You can also, at least in macros, pass in the string values as well. Over WebAPI some of the separator characters get converted so it becomes impossible to tell the difference between the equals sign and the comma (or semi-colon). It is possible that to resolve the WebAPI issue we might become stricter about which characters can be used where and perhaps do less conversions internally.

Examples:

```
PlaybackGroups.AddPlaybacksToGroup(PlaybackGroups.CurrentPlaybackGroup,  
"{cueHandleUN=3,cueListHandleUN=1}")
```

```
PlaybackGroups.AddPlaybacksToGroup(PlaybackGroups.CurrentPlaybackGroup, "{ 1812; 1999  
}")
```

At least currently the braces are optional although they probably help to show intent. The second example is referencing Titan IDs and can have whitespace however in the first example any whitespace before the handle type will cause the lookup to fail (because it doesn't trim it and attempts to find a matching string including any spaces). I haven't found any way of specifying user numbers directly (without the string notation so things such as "{ userNumber:3 }" do not work.

Specifying the playback group is slightly tricky at the moment: as it stands it will not attempt to automatically convert strings or user numbers in that parameter. You can either use the handle cast with a string as in the example at the very top or use the `PlaybackGroups.CurrentPlaybackGroup` property like this:

```
PlaybackGroups.SetCurrentPlaybackGroupFromUserNumber(2)  
PlaybackGroups.AddPlaybacksToGroup(PlaybackGroups.CurrentPlaybackGroup,  
"cueHandleUN=3")
```

It is not currently possible to lookup a playback group from just a user number or Titan ID. Even though in principle it should be able to determine the handle type as this is specifically defined in the function this is not currently used by the parser.

Another example, this time creating a new playback group:

```
Handles.SetSourceHandleRange("Playbacks", {0, 1})
PlaybackGroups.CreatePlaybackGroupWithPlaybacks("Test",
PlaybackGroups.FilterByPlaybackHandle(Handles.ContextHandles))
```

One reason for including this was the syntax of the handle indexes which you might notice is not a string in quotes. This has actually existed for a long time within the menu system itself as opposed to the parsers and converters that are used by macros and WebAPI. This syntax is specific to a list of literal integers such as handle indexes so you couldn't nest anything else inside the braces. This is another example where the `FilterByPlaybackHandle` is required because even if the source handles (`ContextHandles`) are all playback handles it is necessary to filter them otherwise the `CreatePlaybackGroupWithPlaybacks` thinks that they might be wrong and fails immediately.

Gregory

--

**Gregory Haynes**  
**Senior Developer**  
**Avolites Limited**

184 Park Avenue, Park Royal, London, NW10 7XL

[www.avolites.com](http://www.avolites.com)



Please consider the environment before printing this e-mail

This email and any attachments to it may be confidential and are intended solely for the use of the individual to whom it is addressed. If you are not the intended recipient of this email, you must neither take any action based upon its contents, nor copy or show it to anyone. Please contact the sender if you believe you have received this email in error.

**From:** Sebastian Beutel  
**Sent:** 04 June 2021 11:09  
**To:** Gregory Haynes  
**Subject:** macro question: adding playback to playback group

Hi Gregory,

another question: is it possible to add playbacks to playback groups via macro?

There is the function `PlaybackGroups.AddPlaybacksToGroup` but this requires the playbacks to be added as `IEnumerable` which afaik I cannot set within a macro. Hence, is there a way to achieve this at all, maybe with another function? Or, can I now set an `IEnumerable` in a macro?

Thanks, Sebastian