Example

Add MIDi trigger

by:	Gregory Haynes, Sebastian Beutel June/August 2018
published:	http://forum.avolites.com/viewtopic.php?f=20&t=5726
description:	add midi triggers
remarks:	interesting to predefine some triggers in setup macros

add, midi, trigger

functions

- Triggers.SelectMappingByName
- Triggers.SetPendingTargetHardware
- Triggers.AddMidiTrigger
- Math.ToEnum
- Triggers.SetPendingTargetAction
- Triggers.SetPendingTargetHandle

affected properties

- Avolites.Menus.MenuEventTypes
- Triggers.SelectedMappingId
- Triggers.PendingTriggerTarget
- Avolites.Titan.Controllers.Console
- Avolites.Titan.Controllers.Console.PanelMidiCommands

identifiers (other than standard)

- MenuEventTypes

Code

Long lines wrapped for readability - you can as well delete all line wraps.

addmiditrigger.xml

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

  <!-- the following will add a MIDI trigger for the first playback
swop button
       (Hardware) for note 11 (Note On, After Touch and Note Off) -->

  <macro id="Avolites.Macros.AddMidi1" name="Add Midi Trgger Example
1">
```

```
    <sequence>
      <step>Triggers.SelectMappingByName("Your Mapping Name")</step>
      <step>Triggers.SetPendingTargetHardware(
        "PlaybackSelect",
        Math.ToEnum(
          "",
          "Avolites.Menus.MenuEventTypes",
          "OnSelect"),
        "Playbacks",
        0,
        "Swop")
      </step>
      <step>Triggers.AddMidiTrigger(
        Triggers.SelectedMappingId,
        Triggers.PendingTriggerTarget,
        0,
        Math.ToEnum(
          "Avolites.Titan.Controllers.Console",
          "Avolites.Titan.Controllers.Console.PanelMidiCommands",
          "Note"),
        11,
        0,
        127,
        0,
        false)
      </step>
    </sequence>
  </macro>

  <!-- Add a MIDI trigger for the first preset fader (Hardware) for
Control Change 1: -->

  <macro id="Avolites.Macros.AddMidi2" name="Add Midi Trigger Example
2">
    <sequence>
      <step>Triggers.SelectMappingByName("Your Mapping Name")</step>
      <step>Triggers.SetPendingTargetHardware(
        "PresetFader",
        Math.ToEnum(
          "",
          "Avolites.Menus.MenuEventTypes",
          "OnValueChanged"),
        "Presets",
        0,
        "")
      </step>
      <step>Triggers.AddMidiTrigger(
        Triggers.SelectedMappingId,
        Triggers.PendingTriggerTarget,
        1,
```

```
        Math.ToEnum(
          "Avolites.Titan.Controllers.Console",
          "Avolites.Titan.Controllers.Console.PanelMidiCommands",
          "Continuous"),
        1,
        0,
        127,
        0,
        false)
      </step>
    </sequence>
  </macro>

  <!-- MIDI control change 17 triggers playback button 1 -->

  <macro id="Avolites.Macros.AddMidi3" name="Add Midi Trigger Example
3">
    <sequence>
      <step>Triggers.SelectMappingByName("4")</step>
      <step>Triggers.SetPendingTargetHardware("PlaybackSelect",
OnButtonDown, "Playbacks", 1, "")</step>
      <step>Triggers.AddMidiTrigger(
        Triggers.SelectedMappingId,
        Triggers.PendingTriggerTarget,
        1,
        Math.ToEnum(
          "Avolites.Titan.Controllers.Console",
          "Avolites.Titan.Controllers.Console.PanelMidiCommands",
          "Continuous"),
        17,
        0,
        127,
        0,
        false)
      </step>
    </sequence>
  </macro>

  <!-- MIDI control change 12 triggers playback item on playbacks 1,
action="flash" -->

  <macro id="Avolites.Macros.AddMidi4" name="Add Midi Trigger Example
4">
    <sequence>
      <step>Triggers.SelectMappingByName("4")</step>
<step>Triggers.SetPendingTargetHandle("Location=Playbacks,1,1")</step>
      <step>Triggers.SetPendingTargetAction("Flash")</step>
      <step>Triggers.AddMidiTrigger(
        Triggers.SelectedMappingId,
        Triggers.PendingTriggerTarget,
        1,
```

```
        Math.ToEnum(
          "Avolites.Titan.Controllers.Console",
          "Avolites.Titan.Controllers.Console.PanelMidiCommands",
          "Continuous"),
        12,
        0,
        127,
        0,
        false)
      </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

Here, various triggers are created, simply by the same commands, with different parameters.

- `Triggers.SelectMappingByName()` defines the trigger mapping where the trigger is to be added
- for trigger type=hardware, the triggered hardware is set with `Triggers.SetPendingTargetHardware()`
- for trigger type=item, the triggered item handle is defined with `Triggers.SetPendingTargetHandle()` and the trigger action is defined with `Triggers.SetPendingTargetAction()`
- the actual trigger is then created with `Triggers.AddMidiTrigger` with all the little details (e.g. MIDi channel etc.) as parameter

How to use it

1. make this macro available

This is best used to prepare some triggers which you always use, in some setup macros.

From:
https://avosupport.de/wiki/ - **AVOSUPPORT**

Permanent link:
https://avosupport.de/wiki/macros/example/addmiditrigger?rev=1537092068

Last update: **2018/09/16 10:01**