

Example

MIDI Machine Control

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| by: | Oliver Waits, December 2019/January 2020 |
| published: | here (he submitted this by email) |
| description: | macros to send some MIDI commands which control MMC-enabled devices |
| remarks: | In order to run this over other ways than real 5pin MIDI Titan v13 is required |

[MIDI](#), [MMC](#)

functions

- [Panel.Midi.Send](#)

The complete file with all commands/macros:

[midimachinecontrolmacros.xml](#)

A file with additional macros to set MIDI timecode via MMC can be found [here](#)

[mmc_settimecode.xml](#)

Code

[MidiMachineControlShortlist.xml](#)

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

  <!-- MMC Stop -->
  <macro name="MMC Stop" id="Avolites.Macros.MMCStop">
    <sequence>
      <step>Panel.Midi.Send("F0 7F 7F 06 01 F7")</step>
    </sequence>
  </macro>

  <!-- MMC Play -->
  <macro name="MMC Play" id="Avolites.Macros.MMCPlay">
    <sequence>
      <step>Panel.Midi.Send("F0 7F 7F 06 02 F7")</step>
    </sequence>
  </macro>

  <!-- MMC Pause -->
  <macro name="MMC Pause" id="Avolites.Macros.MMCPause">
    <sequence>
      <step>Panel.Midi.Send("F0 7F 7F 06 09 F7")</step>
    </sequence>
  </macro>
```

```
<!-- MMC Goto Start -->
<macro name="MMC Goto Start" id="Avolites.Macros.MMCGotoStart">
  <sequence>
    <step>Panel.Midi.Send("F0 7F 7F 06 44 06 01 00 00 00 00 00
F7")</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](#)

Upon starting such a macro a predefined MIDI command is being sent. For the available commands see https://en.wikipedia.org/wiki/MIDI_Machine_Control however it depends from the device/software which commands are supported.

The GoToStart macro is an example how to alter this to a particular timestamp:

- the message F0 7F 7F 06 44 06 01 00 00 00 00 F7 comprises of
 - F0 F7 ⇒ Universal Real Time SysEx
 - 7F ⇒ device ID. 7F is all devices
 - 06 ⇒ MIDI machine control command
 - 44 ⇒ GoTo
 - 06 ⇒ length (6 bytes to follow)
 - 01 ⇒ target (usually 01)
 - 00 00 00 00 00 ⇒ hours minutes seconds frames subframes (hexadecimal!)
 - F7 ⇒ end of Universal Real Time SysEx message

This way you can easily create your own macros to jump to a particular time: simply replace the 00 00 00 00 00 with the timestamp you want to jump to.

[Various timestamps are used in the file](#)

mmc_settimecode.xml

How to use it

1. [make this macro available](#)
2. for general information about using MIDI to control other devices see [MMC - MIDI Machine Control](#)
3. depending from your setup you might need to use virtual MIDI patchcords like LoopMIDI or rtpMidi, see [Software List](#)

4. sending out MIDI e.g. over USB or network is supported from Titan v13 on

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