

Example

# MIDI Show Control

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| <b>by:</b>          | Sebastian Beutel, February 2020   |
| <b>published:</b>   | here  |
| <b>description:</b> | macros to send some MIDI commands which control MSC-enabled devices/software  |
| <b>remarks:</b>     | In order to run this over other ways than real 5pin MIDI Titan v13 is required<br>See <a href="https://www.facebook.com/groups/Avolites/permalink/1791621797636713/">https://www.facebook.com/groups/Avolites/permalink/1791621797636713/</a> |

[MIDI](#), [MSC](#)

## functions

- [Panel.Midi.Send](#)

The complete file with all commands/macros:

[midishowcontrolmacros.xml](#)

## Code

[MidiShowControlShortlist.xml](#)

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

  <!-- MSC Reset -->
  <macro name="MSC Reset" id="Avolites.Macros.MSC.Reset">
    <sequence>
      <step>Panel.Midi.Send("F0 7F 7F 02 01 0A F7")</step>
    </sequence>
  </macro>

  <!-- MSC Go -->
  <macro name="MSC Go" id="Avolites.Macros.MSC.Go">
    <sequence>
      <step>Panel.Midi.Send("F0 7F 7F 02 01 01 F7")</step>
    </sequence>
  </macro>

  <!-- MSC Stop -->
  <macro name="MSC Stop" id="Avolites.Macros.MSC.Stop">
    <sequence>
      <step>Panel.Midi.Send("F0 7F 7F 02 01 02 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 <http://www.richmondsounddesign.com/docs/midi-show-control-specification.pdf> however it depends from the device/software which commands are supported.

The Go macro is an example:

- the message F0 7F 7F 02 01 01 F7 comprises of
  - F0 F7 ⇒ Universal Real Time SysEx
  - 7F ⇒ device ID. 7F is all devices
  - 02 ⇒ MIDI machine control command
  - 01 ⇒ command format; 01 = General Lighting
  - 01 ⇒ command (e.g. 01 = Go)
  - F7 ⇒ end of Universal Real Time SysEx message
- When editing know that all data is hexadecimal.
- Additional data (e.g. cue numbers) need to be hex-encoded ascii chars.
  - cue 1 = 31
  - cue 1.5 = 31 2E 35

## 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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