

MIDI Yoke Junction NT

Version 1.59

DRAFT: 08-20-01

Description

MIDI YOKE NT is a MIDI Patch Cable driver. It is a Windows (versions NT4, 2000, XP) multimedia driver. If you are using any other version of Windows (example: Win 95, 98, ME), you should obtain the **midiyoke.exe** package from <http://www.midiox.com/>, rather than this package (**myokent.exe**).

MIDI YOKE is used to connect any Windows MIDI Application outputs to any other Applications inputs. The MIDI data stream is passed directly from output to input -- Example:

```
[ Sequencer Out ] ==> [ Out MIDI Yoke In ] ==> [ In MIDI-OX 32 ]
```

Another:

```
[MIDI Keyboard In] ==> [In MIDI-OX Out] ==> [Out MIDI Yoke In] ==> [In Sequencer]
```

This allows you to connect the MIDI output from one program to the MIDI input of a different program. MIDI Yoke can be configured to provide a varying number of MIDI Ports (from 1 to 8). In addition, each port allows multiple opens of both input and outputs: up to 3 openings per port. This flexibility provides for almost any configuration imaginable.

MIDI Feedback

The powerful nature of MIDI Yoke requires that a bit of care be exercised in it's use: do not connect the outputs of one port to the same number inputs within a single application. If you do, it will cause MIDI feedback -- this phenomena will bring a computer to it's knees, and likely crash the system.

Version 1.50+ of MIDI Yoke attempts to detect MIDI feedback by any of 3 configurable methods. The first method was supported in previous versions: it simply sends an undefined controller number out the input port every so often (once every 50 messages). It looks at the output port to see if the controller shows up: if it does it assumes MIDI feedback and disables the driver. The second (new) method analyzes the rate of messages traveling through the driver. If they exceed a certain threshold (2048 messages per second by default), the driver assumes MIDI feedback and disables the driver. The third (new) method combines the previous two: it analyzes the data rate. If the rate exceeds the threshold, the driver sends an undefined controller out the input. If the controller shows up at the output, MIDI feedback is detected, and the driver is disabled.

To recover from any of these conditions, simply close all connections attached to both ends of the particular MIDI Yoke port. After that the port may be reopened (but common sense would dictate that you

should configure the routing differently).

Re-installation

If you are re-installing MIDI Yoke, you need to first de-install and remove the existing driver via the Multimedia applet, Devices tab: Select MIDI Yoke 1, and press **[Remove]**. After you have removed MIDI Yoke, you need to reboot the system - if you don't the existing driver will still be in memory and won't let you increase your ports. After reboot, follow the installation directions, and then reboot again. Here is a pictorial series for Windows 2000 update: [MIDI Yoke update](#).

De-installation

Here is a pictorial series for Windows 2000 de-install: [MIDI Yoke removal](#).

Installation

Windows XP

Windows XP is not yet released, but MIDI Yoke NT seems to work OK in it. The install is similar to Windows 2000. An annotated pictorial series is available on the MIDI-OX website if needed: <http://www.midiox.com>.

Windows 2000

Under Windows 2000, use the Control Panel **Add/Remove Hardware** to install MIDI Yoke NT. Click Next... Choose (*) **Add/Troubleshoot**. Click Next... Choose **Add a new Device**. Click Next... Choose (*) **No, I want to select the Hardware from a list**. Choose **Sound, Video and Game Controllers**. Click Next... Press **[Have Disk]**. Browse to the directory containing the drivers (**myokent.dll** and **oemsetup.inf**). Select the **MIDI Yoke NT** driver from the list. Make sure you don't leave an expanded **MYOKENT.DLL** in your MIDI-OX directory: If Windows NT finds this file it attempts to load it instead of the system one, and anomalies result. It's perfectly okay to leave the compressed version in your MIDI-OX directory (**MYOKENT.DL_**). An annotated pictorial series is right here: [Windows 2000 install](#).

Windows NT

Under Windows NT, use the Control Panel Multimedia Applet to install MIDI Yoke NT. Select the Advanced tab, highlight the **MIDI Devices and Instruments** section, and press **Add**. Choose **Unlisted or Updated driver**, and browse to the directory containing the drivers (**myokent.dll** and **oemsetup.inf**). Select the **MIDI Yoke NT** driver from the list. Make sure you don't leave an expanded **MYOKENT.DLL** in your MIDI-OX directory: If Windows NT finds this file it attempts to load it instead of the system one, and anomalies result. It's perfectly okay to leave the compressed version in your MIDI-OX directory (**MYOKENT.DL_**)

Release Notes

1.70

The Driver has been versioned to 1.70 to differentiate it from the Windows 9x driver. This release fixes two items:

- A SysEx buffer bug has been repaired. When the buffers on the input application attachment were smaller than those on the output application attachment, data was not always split correctly into separate buffers.
- If an attached application crashed, the associated MIDI Yoke slot would become 'orphaned' and unavailable for further use until the system was rebooted. We now attempt to clean up any orphaned attachments the next time a MIDI Yoke port is opened.

1.59

The Windows NT4, 2000, XP version of MIDI Yoke will now present 8 different input and output ports. Each port can be opened by to 3 applications at each end (input and output).

1.56

The MIDI Yoke NT drivers have been updated and are versioned as **1.56**, but they are still Beta drivers: there are still some known quirks associated with its use.

VENDOR INFORMATION

MIDI Yoke driver may not be re-distributed without obtaining prior written permission. Since MIDI Yoke is freeware, our only means of compensation will come from commercial distribution of it. We welcome any and all proposals from individuals or corporations that would like to commercially distribute MIDI Yoke along with their other products.

Contact

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DISCLAIMER

MIDI YOKE JUNCTION DRIVER is provided without any warranty, expressed or implied, including but not limited to fitness for a particular purpose.