
MIDI Product and Port Names

Customization Guide



CONTENTS

1. Overview	3
2. Customization	3
3. Required Defines	4
KTCAT_DICE_DEVICE_x_MIDI_NAME	4
KTCAT_DICE_DEVICE_x_MIDI_PORT_n_NAME	4
4. Optional Defines for Mac OS X	4
KTCAT_DICE_DEVICE_x_MIDI_MANUFACTURER	5
KTCAT_DICE_DEVICE_x_MIDI_DEVICE_NAME	5
KTCAT_DICE_DEVICE_x_MIDI_ICON_FILE	5
5. Example	6
Acme Corporation's tcat_dice_myproduct.h	6
How Acme Corporation's products appear on Windows	7
How Acme Corporation's products appear on Mac OS X	8

1. Overview

As of driver version 3.3.3, it is now possible to customize the MIDI product and port names for each device supported by your driver.

Note: This is completely optional. If you do not provide custom names for a device's MIDI product and port names, the names will default to the same names as in previous drivers versions.

Note: This does not require any changes to the devices' firmware. The names are compiled into the host driver software.

2. Customization

MIDI product and port names can now be customized for each product listed in your `tcats_dice_myproduct.h` header file using a new set of defines:

```
kTCAT_DICE_DEVICE_x_MIDI_NAME  
kTCAT_DICE_DEVICE_x_MIDI_MANUFACTURER  
kTCAT_DICE_DEVICE_x_MIDI_DEVICE_NAME  
kTCAT_DICE_DEVICE_x_MIDI_ICON_FILE  
kTCAT_DICE_DEVICE_x_MIDI_PORT_n_NAME
```

Some of the defines listed above are only used on Mac OS X (and are optional). The minimal defines that are required and used by both Windows and Mac OS X are:

```
kTCAT_DICE_DEVICE_x_MIDI_NAME  
kTCAT_DICE_DEVICE_x_MIDI_PORT_n_NAME
```

Please send us your updated `tcats_dice_myproduct.h` header file after you have added your customizations.

3. Required Defines

These are the minimal required defines that must be added to customize a device's MIDI product and port names on Windows and Mac OS X.

kTCAT_DICE_DEVICE_x_MIDI_NAME

(required) This provides the name of the product, where 'x' is the device index number.

kTCAT_DICE_DEVICE_x_MIDI_PORT_n_NAME

(required) This provides the name for a product's MIDI port, where 'x' is the device index and 'n' is the MIDI port index. There should be one of these defines for every MIDI port that the device supports.

4. Optional Defines for Mac OS X

Mac OS X supports three levels of naming for a MIDI device (Device Name, Manufacturer, and Model) as well as some optional attributes.

DICE Driver Default Values

Level	Default Value
Device Name	kTCAT_DICE_DEVICE_x_MIDI_NAME
Manufacturer	kTCAT_DICE_VENDOR
Model	kTCAT_DICE_DEVICE_x_MIDI_NAME

The following optional defines can be added to override the defaults.

Note: The user is allowed to edit the Device Name field within the Audio MIDI Setup application, in the properties window for a device.

kTCAT_DICE_DEVICE_x_MIDI_MANUFACTURER

(optional, Mac OS X only) This provides the Manufacturer field, where 'x' is the device index. By default, the Manufacturer field is set to the value of your **kTCAT_DICE_VENDOR** define. This define allows you to override this and specify a different Manufacturer name.

kTCAT_DICE_DEVICE_x_MIDI_DEVICE_NAME

(optional, Mac OS X only) This provides the Device Name field, where 'x' is the product index. By default, the Device Name field is set to the value of **kTCAT_DICE_DEVICE_x_MIDI_NAME**. This define allows you to override this and specify a different Device Name.

kTCAT_DICE_DEVICE_x_MIDI_ICON_FILE

(optional, Mac OS X only) This define allows you to specify the filename for an icon image. This icon will be displayed in the Audio MIDI Setup application for that device. The image can be up to 128 x 128 pixels, and the file format can be any OS X supported graphic format (TIFF, PDF, etc).

The device's image file should be placed in the resource/AudioMIDISetupIcons directory within your source code tree.

Please send these image files along with your updated `tcats_dice_myproduct.h` header file so that we can add them to your source code vendor branch.

The driver looks for these image files on the system in:
/Library/Audio/MIDI Devices/{vendor}/Images
where {vendor} is your **kTCAT_DICE_VENDOR_SHORT** define.

Our Mac OS X installer installs the image files found in resource/AudioMIDISetupIcons (within your source code tree) at that location.

Note: If you create your own Mac OS X installer, you will need to add support for installing these image files.

5. Example

Here is an example of a driver for a fictional Acme Corporation that supports two products, the “KaBoom” and the “Audio Anvil”.

Acme Corporation’s `tcat_dice_myproduct.h`

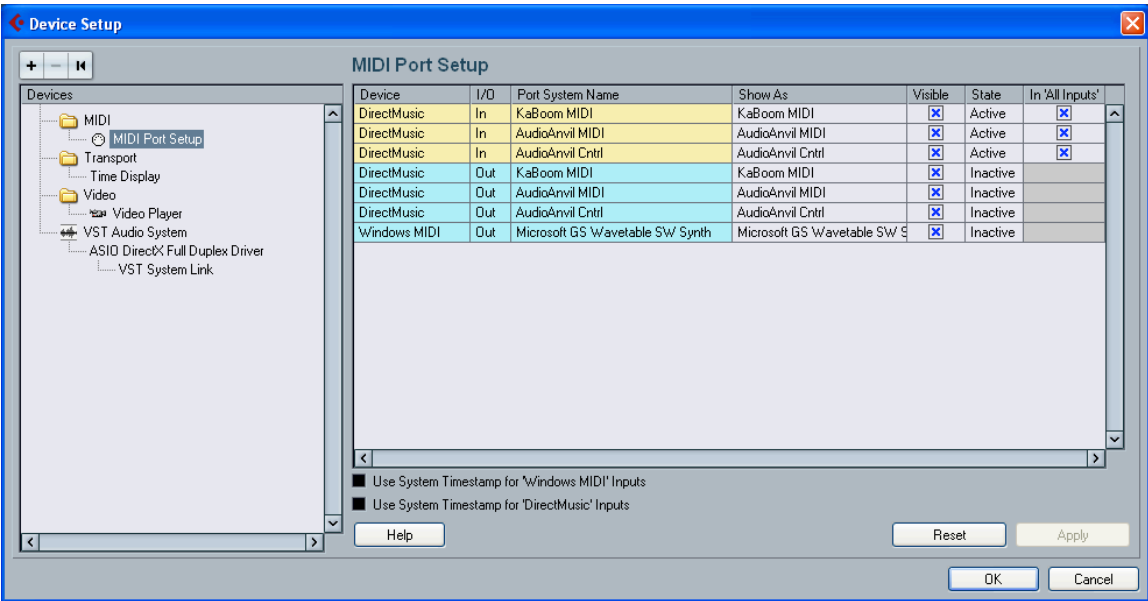
The defines in red text have been added for MIDI device name and port customization. The KaBoom product uses the minimal required defines, and the Audio Anvil product demonstrates the usage of all of the customization defines and the configuration of multiple MIDI ports.

```
////////////////////////////////////
//
// product defines
//
////////////////////////////////////
#define KTCAT_DICE_VENDOR           Acme Corporation
#define KTCAT_DICE_VENDOR_SHORT     Acme
#define KTCAT_DICE_USR              Acme Firewire
#define KTCAT_DICE_DRV              AcmeFirewire

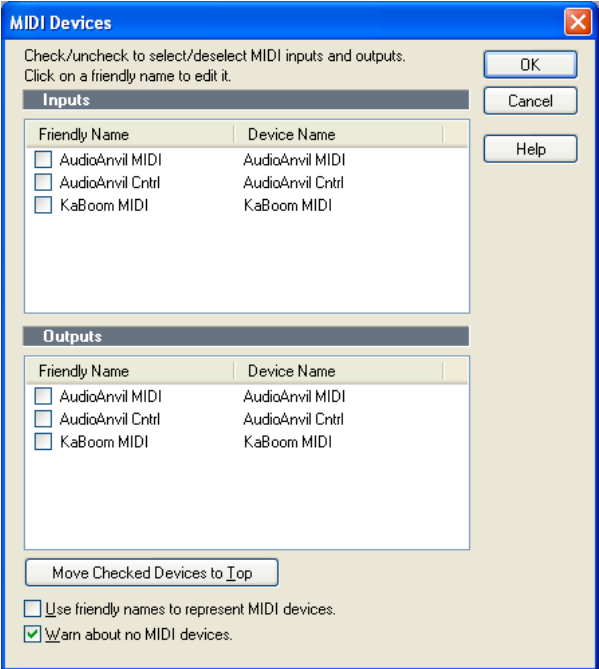
////////////////////////////////////
//
// device defines
//
////////////////////////////////////
#define KTCAT_DICE_DEVICE_1_DESC    Acme KaBoom
#define KTCAT_DICE_DEVICE_1_ID      0x1
#define KTCAT_DICE_DEVICE_1_MODEL_ID KaBoom_EvalBoard
#define KTCAT_DICE_DEVICE_1_MIDI_NAME      KaBoom
#define KTCAT_DICE_DEVICE_1_MIDI_PORT_1_NAME MIDI

#define KTCAT_DICE_DEVICE_2_DESC    Acme AudioAnvil
#define KTCAT_DICE_DEVICE_2_ID      0x2
#define KTCAT_DICE_DEVICE_2_MODEL_ID AudioAnvil_EvalBoard
#define KTCAT_DICE_DEVICE_2_MIDI_NAME      AudioAnvil
#define KTCAT_DICE_DEVICE_2_MIDI_MANUFACTURER AcmeCorp
#define KTCAT_DICE_DEVICE_2_MIDI_DEVICE_NAME ACME Anvil
#define KTCAT_DICE_DEVICE_2_MIDI_ICON_FILE AudioAnvil.tiff
#define KTCAT_DICE_DEVICE_2_MIDI_PORT_1_NAME MIDI
#define KTCAT_DICE_DEVICE_2_MIDI_PORT_2_NAME Cntrl
```

How Acme Corporation's products appear on Windows

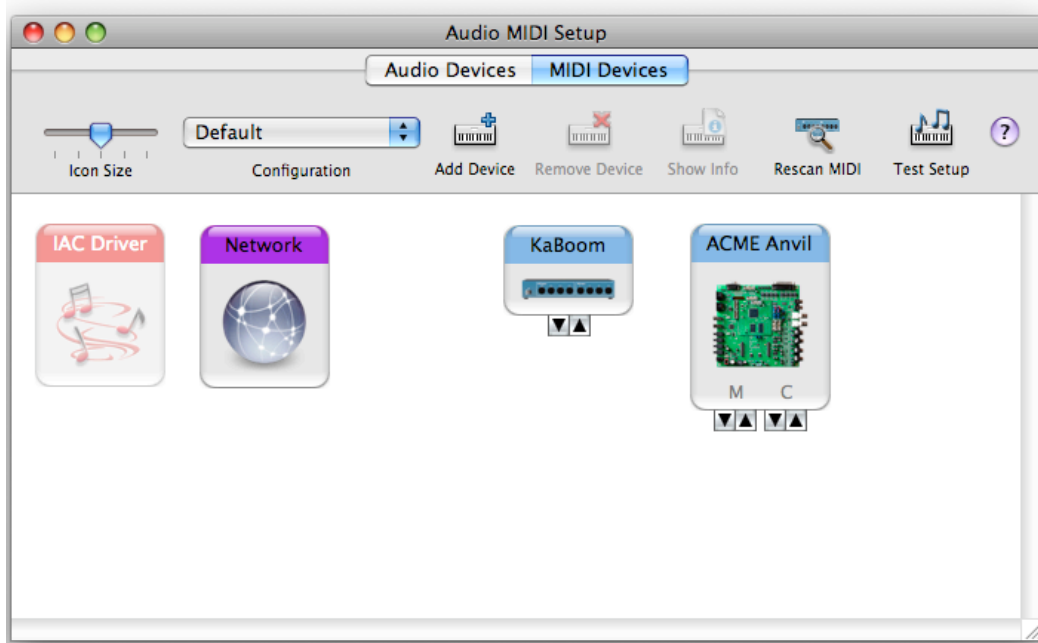


Cubase 4

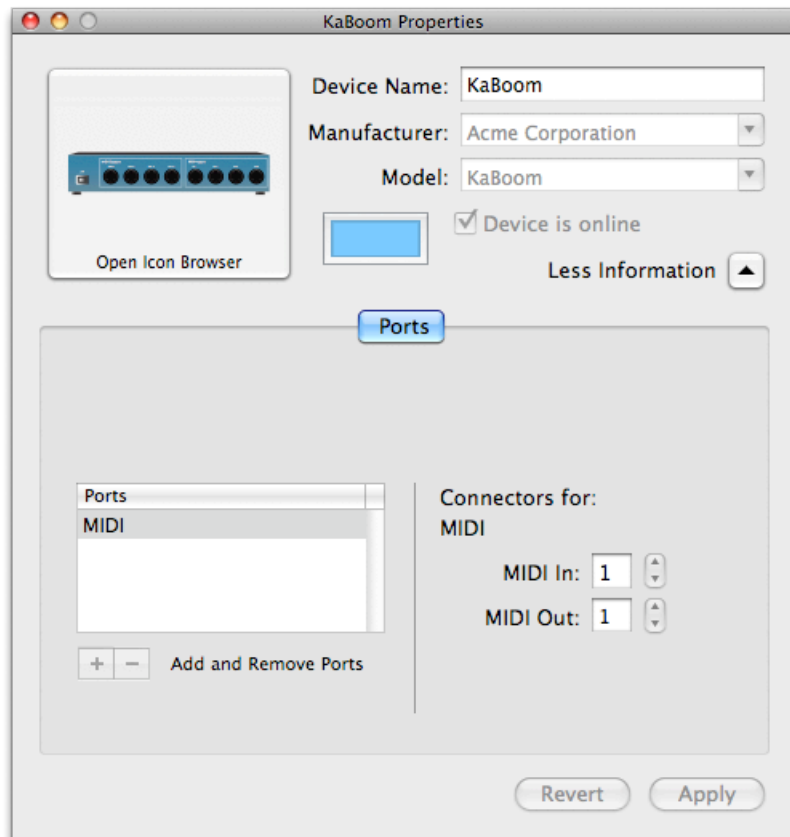


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How Acme Corporation's products appear on Mac OS X

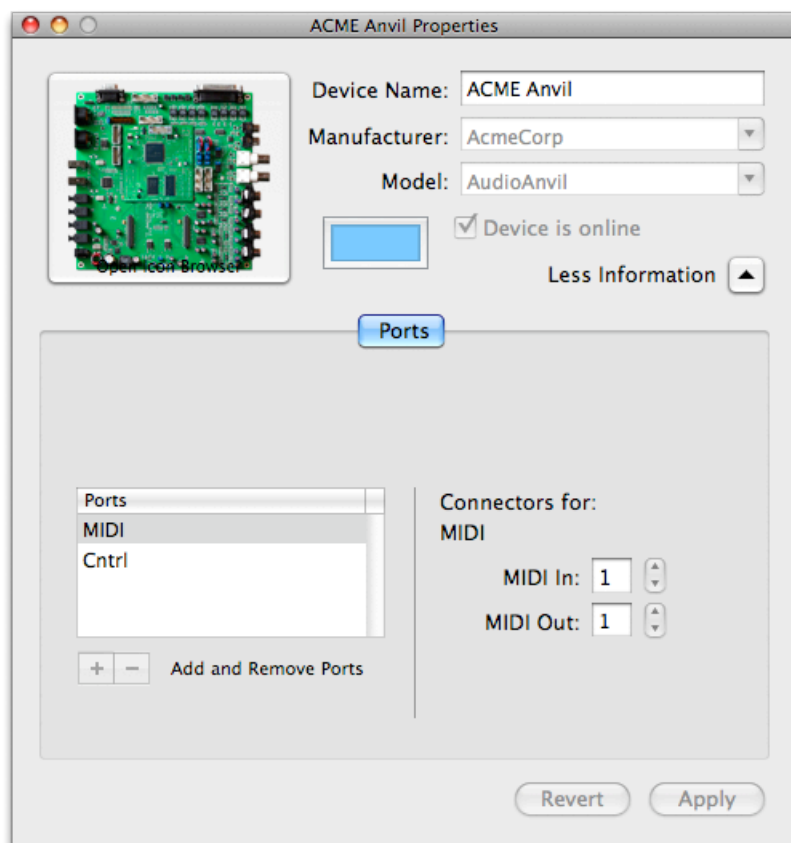


Audio MIDI Setup

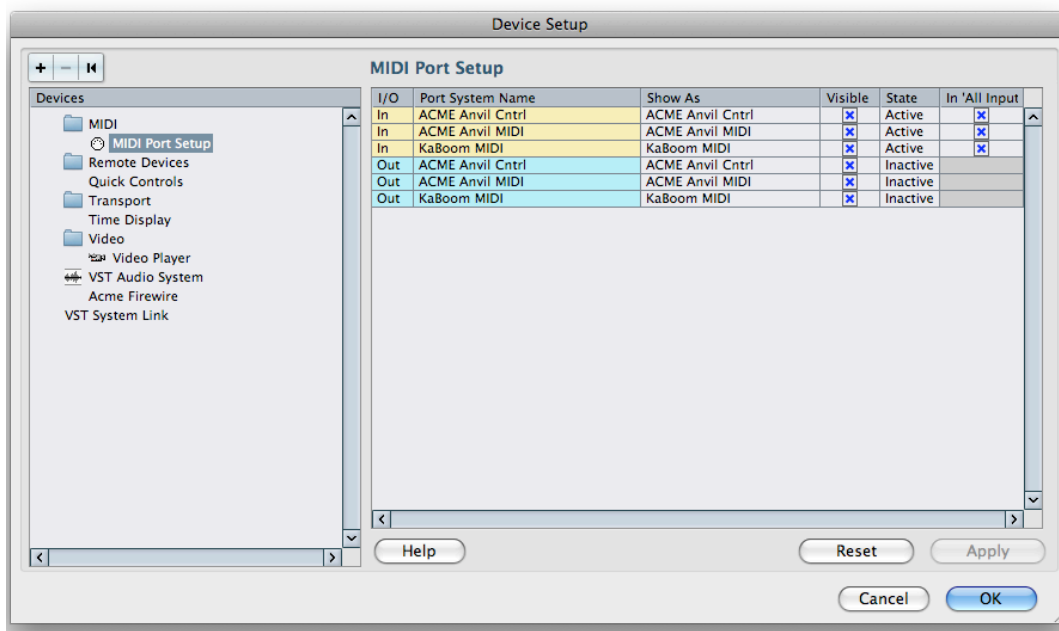


Audio MIDI Setup properties window for the "KaBoom" device

MIDI Product and Port Name Customization Guide

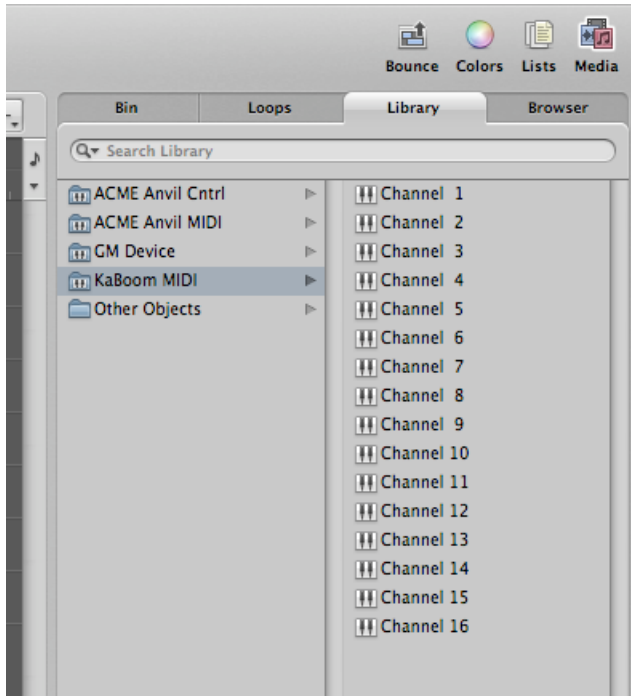


Audio MIDI Setup properties window for the "Audio Anvil" device



Cubase 4

MIDI Product and Port Name Customization Guide



Logic 8