



## EigenD System Release Notes

Eigenlabs Ltd.  
+44 (0) 1392 823000  
[support@eigenlabs.com](mailto:support@eigenlabs.com)

Release: **1.4.6-testing**  
Release Category: Testing

Download location: <http://www.eigenlabs.com/downloads/releases>

This release marks the end of development of the 1.4 line. 1.4 will now receive only bug fixes until it can be promoted to stable.

## Release Chronology:

- Release 1.4.1      24<sup>th</sup> May 2011
- Release 1.4.2      13<sup>th</sup> July 2011
- Release 1.4.3      2<sup>nd</sup> September 2011
- Release 1.4.4      9<sup>th</sup> September 2011
- Release 1.4.5      12<sup>th</sup> September 2011
- Release 1.4.6      23<sup>rd</sup> September 2011

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# 1 – Introduction

The 1.4 branch is built from the Open Source Release which can be found on GitHub at <http://github.org/Eigenlabs>.

The 1.4 series is currently tagged as 'Experimental' which means that we are putting in new features which may break compatibility with other 1.4 releases.

The Primary aim of the 1.4 release is to support the Alpha and Tau instruments under Windows.

Please note that to install this release, you should have previously installed the resources package from the Eigenlabs site, or have a previous running installation of an older version. In addition, for Alpha and Tau support you need the latest version (1.0.6) of the Windows Drivers.

## 2 – Bugs fixed in this release

The 1.4.6 release contains all bug fixes up to Release 1.3.30

- Release 1.4.6-testing
  - Items on the Window menu are now ordered alphabetically.
  - Windows will pop a message when the USB driver is too old.
  - Mac OS will report when the USB bus doesn't have enough bandwidth.
- Release 1.4.5-experimental
  - The scale selection through Stage in the Alpha 3 factory setup now corresponds to the splits that are indicated in the labels.
  - Fixes the Tau factory setup that accidentally got corrupted during packaging of the previous release.
- Release 1.4.4-experimental
  - Talker kgroup blink is now disabled so that the main kgroups can blink faster than the talker kgroups. This was experienced as the blink time not being able to go below 0.5ms.
  - Stage tab fixes to Alpha factory 2 for scale browsing.
  - Alpha factory 3 now updates all tonic and scale lights correctly when MIDI input notes are used to change tonics and scales.
  - The kgroup blink port can now be un set, which is the same as setting it to 0.
- Release 1.4.3-experimental
  - Fix to arranger not playing first event.
  - Fix to remember default setup across EigenD upgrades.
  - Fixes to EigenD wake from sleep.
  - Fixes to incremental setup loading.
  - Fixes to Tau percussion keys to MIDI connection in factory setup.

- Updated integrated routing matrix document documentation.
  - Changed Audio Unit and MIDI converter program change and bank change bounds to be 0-127 instead of 1-128 for consistency.
  - EigenD doesn't need to be restarted anymore when custom scales are added.
  - Fixes to remember warning dialog ignores across EigenD restarts.
  - Fix to make VST plugins with generic GUIs work.
  - Fixes to make AU plugins with generic GUIs work in setups that aren't using an Apple AU already.
  - Pop up warning dialog when certain functionalities aren't available due to insufficient bandwidth on the USB bus on MacOSX.
  - Updated Pico and Alpha references guides based on the most recent factory setups, the Tau version will follow soon.
  - Fix to only upgrade old setups when no setups are present for the running version (could be experienced as being unable to delete setups).
  - Fixes to Stage connection code and addressing.
  - Fixes to Alpha/Tau keyboard replugging.
  - Unusable ports are now hidden in Stage.
  - Missing agent and port tooltips have been written for Stage.
- Release 1.4.2-experimental
    - Fix to for return to origin with per-note plugin parameters.
    - Fix to RPC getValue which could create a deadlock situation.
    - Fixed regression for the pre-instantiation of fast talkers.
    - Various stability fixes.

### 3 – Bugs and known issues in this release

- No support for Headphones on Alpha and Tau as yet.

### 4 – Changes and Improvements

Items in *italic* indicate changes or improvements that are unique to the 1.4 branch of EigenD, other items have been brought in from the 1.3 branch.

- Release 1.4.6-testing

Headphone support for the Alpha and Tau on Windows.

From Release 1.4.6, the Windows port requires the latest device drivers. These can be downloaded from the resources section of the Eigenlabs web site:

<http://www.eigenlabs.com/downloads/releases/state/resources/>

You will get a pop up warning if the drivers installed on your system are too old. Older releases will continue to work with the new drivers.

The changes for headphone support involve new firmware for the Base station and Power supply. This firmware is downloaded into a newly powered on device. If you quit EigenD and run an earlier version (or vice versa) the firmware will be wrong and

the instrument will not be detected. Simply power cycle the Basestation or Power supply and the correct firmware will be selected.

- Release 1.4.5-experimental:
  - Updates to the Windows Alpha and Tau factory setups so that they're in-line with the the features on MacOSX.
- Release 1.4.4-experimental:
  - Alpha factory setups now have overdub keys in the advanced MIDI sections.
  - The Tau quick reference guide is now fully up-to-date with the factory setup.
  - The Tau factory setup now has pedal 1 connected to sampler 1 piano sustain.
  - The Tau factory setup now has all the recent features of the Alpha setups, including:
    - MIDI input support
    - MIDI input control on the keyboard
    - MIDI clock control on the keyboard
    - MIDI input scale, tonic, setup and metronome triggers through MIDI notes
    - Pedal calibration
    - Script browsing
    - Per-instrument overdub toggle
    - Belcanto playing from the instrument
  - The Tau stage tabs are all updated to reflect the new setup features.
  - The Tau and Alpha setups now have a pedal calibration Stage tab.
  - The Pico setups now have a global overdub toggle on the main Stage tab.
- Release 1.4.3-experimental:
  - Due to a prior bug in Stage, certain existing widgets might be disconnected and shown as greyed out or having a surrounding red rectangle. To reconnect these widgets, follow these instructions:
    - Unlock the Stage editing by clicking on the padlock icon at the top left corner of the window
    - Select the Edit tool which is the third tool in line
    - Left-click on the widget that has to be reconnected
    - Uncheck the 'enabled' flag in the widget properties dialog
    - Confirm by pressing OK
    - Select the Create tool which is the second tool in line
    - Wait for the agent list to load
    - Find the agent and port that the widget is supposed to be connected to
    - Drag and drop the port from the available agent list onto the widget
    - The widget will now be reconnected
- Release 1.4.2-experimental:
  - *Added support for per-note AU/VST automation parameters.*

When a mapping is configured for an automation parameter, it can now be set as being per-note. This means that it will use the number of the automation parameter for notes that are played on MIDI channel 1 and increase the number of the automation parameter for each successive MIDI channel that is used. This can then be used to tie the automation parameter to the appropriate parts of a multi-timbral plugin.

- *Added belcanto verbs for sending specific MIDI CC messages to an AU host or MIDI convertor, for instance:*

```
audio unit 1 hey midi controller 5 to 64 set
```

- Release 1.4.1-experimental:
  - *Initial 1.4 release. Contains support for the Alpha and Tau on Windows.*