mLAN Tools 2.0/mLAN Applications for YAMAHA

■ Main changes in the update

V1.5.4 to V1.5.5

- A problem in which the sequencer and mLAN driver latency offset value would differ has been improved.
- The Preferred Buffer Size parameter in the ASIO control panel can now be set in 32-sample increments rather than 1 millisecond increments.
- Setup problems when connecting the i88X to computer via the mLAN Auto Connector have been corrected.(changed in V1.5.4 for Windows XP Professional x64 Edition)
- The data transfer protocol has been changed.
  Connection data created using versions prior to V1.5.4 will be lost.
  Please restore the connections as required according to the procedures outlined in the Installation Guide.

V1.5.3 to V1.5.4

- mLAN Automatic On option is added on the menu of mLAN Manager.
  When mLAN Manager is launched (including computer booting), set it in mLAN ON automatically.
  [NOTE]
  If "Auto On" is selected, WDM audio system of Windows computer sometimes conflict to get default audio device, which depends on the booting sequence of each computer 's audio system. If some problem is found after changing to "Auto On", please don't use "Auto On" option on the computer. If you don't use mLAN driver as WDM partly (which can be changed in mLAN Auto Connector or mLAN Graphic Patchbay),you can enable "Auto On" option even in all computer 's audio systems.
- Added RESET ALL function which enables all connected mLAN devices to return to factory setting, and to reset mLAN Driver to a setting right after its installation.
- Added a function that lets "root device", which generates the basic clock setting for transferring data on IEEE1394 network, to set on mLAN devices.
  [NOTE]
  In a network of mLAN devices, the "root" is the node that is the reference point for data transmission. This means that even in the same network environment, there may be slight differences in audio quality depending on the root. In a professional recording environment or similar critical situation, we recommend that you always specify the same node as the

root in order to ensure uniform audio quality.Since the root setting is saved in the Graphic Patchbay file, the root setting will be recovered when you recall the file. However, the root node may change if you power-off an mLAN device or disconnect an IEEE 1394 cable while you're working. In this case, you can press the root indicator button of the node you want to restore as the root, or recall the Graphic Patchbay setting file.

[NOTE]

When using in Windows XP or Windows XP SP1, Changing the root sometimes fails and error massage is showed. No problems in Windows XP SP2.

- Reduced the noise that occurs when connecting a device and turning the power ON/OFF.
- Reduced the CPU load when mLAN Driver is not in use with DAW.

  [NOTE]

  With this change, the Status Display of mLAN Driver Setup has changed.

  - When mLAN Driver is not in use with DAW- Gray
  - When mLAN Driver is in use with DAW - Blue (normal), Red (abnormal)
- Reduced the CPU load when the mLAN Driver is running.

V1.5.1 to V1.5.3

- Now supports MY16-mLAN
- Increased computer 's MIDI Output Plug from 8 to 16
- Corrected error in confirmation of MOTIF ES while using a Windows XP SP2 with mLAN16E
- Corrected other minor system anomalies

V1.4.1 to V1.5.1

- Added template load/save feature for Graphic Patchbay.
- The mLAN driver fully supports Hyper Threading. If you turn on the Hyper Threading on your computer, you can reduce the load factor from the mLAN Driver.
- Average CPU load for typical case systems is reduced. Percentile reduction varies from system to system.

Previous main updates (update history)

- Multiple mLAN devices can be connected in software with the mLAN Graphic Patchbay (V1.4.1).
- ASIO left-aligned format is supported. [ASIO driver can be used in Cakewalk SONAR 2.1 or higher or Steinberg Wave Lab 4-5.] (V1.4.1).
- S400 devices (01X, i88X, and mLAN16E) can be selected using the mLAN Auto Connector (V1.4.1).

- The user interface of the mLAN Auto Connector has been modified to allow easy setting of the input and output specifications for independent channels on each S400 mLAN device (V1.4.1).
- Standby mode in Windows is supported (V1.3).
- The problem which may have resulted in Windows XP freezing when switching to the WDM Driver Mode in the mLAN Driver Setup window has been modified (V1.3).

■ Known issues:

- mLAN connection may be interrupted in some cases when an mLAN device initially connected under Mac OS X is used with a Windows host.
  In such cases reconnect after initialization executing “RESET ALL” from mLAN Manager menu.
- There may be situations where wordclock signals are not transmitted normally when using a computer as the wordclock master. Furthermore, noise may occur when using an mLAN device as the wordclock master. This may be due to automatic changes in the speed of the CPU clock. Some computers, for instance those equipped with Intel’s SpeedStep technology, change the speed of the CPU clock automatically. Consult the manufacturer of your computer as to whether the CPU clock is speed-adjusted automatically or not. If so, make sure to fix the CPU clock speed to a specific value.
- Template load to devices with fewer ISOC channels. (The number of ISOC channels decides how many number of mLAN devices you can connect to/from computer. The number depends on OHCI chip on your computer or IEEE1394 cards.) Some computer OHCI compatible IEEE1394 cards feature a total of 8 ISOC channels to the mLAN Buss driver (Isoc = Isochronous send or receive channels). If a template has been made which involves multiple connected devices to the computer on this type of device, and then it is loaded onto a computer with fewer ISOC channels (For example TI based cards typically feature 4 isoc channels whilst some VIA chipset devices feature 8), the template load may report errors. Please reduce the number of simultaneously independent connected devices to the computer if this is the case. You can check the number of simultaneously connectable devices by: going to "mLAN Manager" > "Driver Setup" > "Info". Half the number of tabs shown is the number of connectable devices for your computer.