mLAN Driver / mLAN Tools Release Note

■ Main changes in the update

V1.6.2 to V1.6.3
- The driver now supports the MOTIF-RACK XS. When using this driver, install the mLAN16E2 to the MOTIF-RACK XS. The Connection Manager automatically establishes mLAN connection. You can manually change the mLAN connection established by Connection Manager by using the mLAN Graphic Patchbay.
- The problem that sound may not play back with a multimedia application in Windows Vista has been corrected.
- Solved some minor problems.

V1.5.5 to V1.6.2
- The driver now supports the n8/n12/MOTIF XS8/mLAN16E2. When using the n8/n12/MOTIF XS8/mLAN16E2, the Connection Manager automatically establishes mLAN connection. You can manually change the mLAN connection established by Connection Manager by using the mLAN Graphic Patchbay.
- The number for channels of WDM audio output drivers has been expanded from two channels (31 and 32 Out) to eight channels (1 to 8 Out). Moreover, the WDM driver's audio output is mixed with the audio output from the ASIO driver. The surround sound of an audio program (such as DVD player software) can be output from the WDM driver. This update now eliminates the need to make WDM settings for the mLAN Auto Connector/mLAN Graphic Patchbay.
- The driver now supports Windows Vista.

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.
- 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.
- 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 mLAN 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).

■ MIDI Latency

The MIDI latency is determined by the required CPU setting in the Driver Setup as described below.
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Driver Setup settings
   High Performance
      Transmission: 2msec.
      Reception   : 1msec.
   Medium Performance
      Transmission: 4msec.
      Reception   : 1msec.
  Low Performance
      Transmission: 8msec.
      Reception   : 1msec.
****

Transmission: From computer to mLAN device.
Reception   : From mLAN device to computer.

■ Notes on use with Windows Vista

- The "Program Compatibility Assistant" dialog box may appear if installation or uninstallation of mLAN Driver/mLAN Tools is cancelled before it is complete. If this dialog box appears, click [Cancel].
- If no sound is produced from the mLAN device by way of the mLAN WDM driver after you have changed mLAN driver's sampling frequency, follow the steps below.
  1. From the Start menu, select ([Settings] →) [Control Panel] → [Sound] → [Playback].
  2. Select "Line Out mLAN Audio Out" and click [Properties].
     The Line Out Properties window will open.
  3. Click the Advanced tab in the Line Out Properties window.
     The previous sample rate is shown in the "Default Format."
  4. Click [Restore Defaults].
     The "Default Format" will show the updated sample rate.
  5. Click [OK].
- If one of the following items is clicked, a general warning sound is produced.
  - The Connection display box of the Input Connectors window / Output Connectors window for the Audio / MIDI / Wordclock views.
  - Each list of Audio In, Audio Out and Destination Connector List on the Audio Connection window (List view).
  - Each list of MIDI In, MIDI Out and Destination Connector List on the MIDI Connection window (List view).
  - Each list of outputs/inputs in "Destination Connector List" window called up by selecting [View]->[Destination Connector List..] from the menubar.
  - The list in the "Resource Information" window.

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