



Pyramix 11 Release Notes

Installation

Please consult the Installation Guide located on the Pyramix Installation Media (USB Memory card) for details on the hardware and software installation procedure and Authorization Key registration process.

RAVENNA users will have to install the NET-MS-C-GBEX1 PCIe Ethernet card provided by Merging Technologies. TURN YOUR COMPUTER OFF (shut down then switch the power off). Next plug the NET-MS-C-GBEX1 card into one of the PCI-Express bus slots on your computer and turn the power back on. The NET-MS-C-GBEX1 card will only be operational once the MassCore runtime is installed. Refer to the Pyramix Installation Guide for more details.

- To install the Pyramix Virtual Studio software insert the Pyramix Virtual Studio Installation Media - the installation program should auto-start.
- To install MassCore launch the MT Security Settings, go to the MassCore page and install the MassCore RunTime (a MassCore base key is required along with MassCore 64bit and a RTX64 3.0 key). Refer to installation guide for more details.
- Warning: Make sure that the Windows 10 version you are installing onto is supported by Pyramix, as often update can break the compatibility. All details in the separate Pyramix installation guide.

Updates

Please check our Web site <http://www.merging.com> periodically for information, patches and updates.

Pyramix v11.1 INSTALLER INFORMATION:

Pyramix v11 is compatible with the following Operating Systems

- Windows 7 Professional (64bit): MassCore/RAVENNA, Native & Native/RAVENNA ASIO
- Windows 10 Professional (64bit): MassCore/RAVENNA, Native & Native/RAVENNA ASIO

Note: Pyramix v11.1.6 HotFix is supported under the Windows 10 updates;

- Anniversary (1607)
- Creator (1703)
- Fall Creator (1709)
- Spring Creator (1803)
- October update (1809) new MassCore RTX64 v3.6.2.4881
As well as the latest Meltdown and Spectre Windows updates.

The Windows update *Microarchitectural Data Sampling* (released **May 14, 2019**) is compatible with MassCore 3.6.2. included in the Pyramix v11.1.6 HotFix.

<https://confluence.merging.com/pages/viewpage.action?pageId=46694418>

The Windows update KB number depends on your Windows version :

Windows 10 1809 - October 2018 Update : KB 4494441

Windows 10 1803 - Spring Creator : KB4499167

Windows 10 1709 - Fall Creator: KB4499179

Windows 10 1703 - Creator: KB 4499181

Windows 10 1607 - Anniversary: KB4494440

Windows May 2019 Update 1903/19H1 not supported with Pyramix v11.1 (not supported with MassCore RTX64 3.3, 3.4 or 3.6)

Users that want to apply Windows updates may refer to the Merging Compatible Windows updates

<https://confluence.merging.com/pages/viewpage.action?pageId=25755762>

Pyramix v11.1 installation notes

- **Pyramix v11.1.6 HotFix come with a NEW MassCore RTX64 v3.6.2.4881**
- Before you perform a Windows 10 update to Windows Fall Creator (1709) or Spring Creator (1803) or October update (1809) on a system already running a MassCore version it will be important for users to remove MassCore from the MT Security MassCore tab prior to performing a system update. Details below.

*Note #1: We highly recommend users to defer the Windows updates, so that it does not harm your system [here for details on how to defer updates](#)
Windows 10 users should never update to Beta Windows version or major new updates before making sure they are supported by Merging.*

Note #2: Pyramix v11.1.6 HotFix now supports Windows 10 October update 1809 for MassCore and the Zimbieload updates.

Note #3:

Users wanting to update to Windows October update must follow the procedure document

<https://confluence.merging.com/pages/viewpage.action?pageId=33259777>

Users that want to apply Windows updates may refer to the Merging Compatible Windows updates [here](#)

Once you have updated your Windows 10, follow the Pyramix v11 and MassCore installation.

- SSK-HUD-RTX owners can have both a Pyramix v10 MassCore key and Pyramix v11 MassCore Key stored on their dongle and go from a system to the other using their SSK-HUD-RTX
- SSK-HUD-RTX owners should be aware that the Hasp driver 7.80 is not compatible with MassCore/RTX64. Refer to the procedure here:
<https://confluence.merging.com/pages/viewpage.action?pageId=27852814>
- Pyramix v11 keys are required.

- Pyramix v11.1 Projects are not backward compatible with Pyramix v11.0, users must perform a "Save Special as v11.0" in order to open such project in v11.0

Native Installation Notes:

- Native users running Horus/Hapi on Firmware 3.9.4> must install and run ASIO v12.0.1>
- Pyramix v11.1 can be installed on either Windows 7– 64bit or Windows 10 – 64 bit
- The Windows 10 Spring Creator update (1809) is supported as of Pyramix v11.1.6 HotFix
- It is necessary to remove the previous Pyramix version, if there is one, from the Windows Programs and Features, and then reboot your system before installing Pyramix v11.
- Pyramix v11 keys are required. Follow the Pyramix v11.1 Installation Guide for all details
- As of v11.1 the ANEMAN installer is no longer included in the Pyramix Installer. Please download and install the latest ANEMAN in order to manage and monitor your AoIP devices from <http://www.merging.com/products/networked-audio/aneman>

MassCore Installation Notes:

- Refer to the Pyramix v11.1 Installation Guide for installation procedure and details on the specific BIOS settings and system configuration.
- Pyramix v11.1.6 HotFix uses a new MassCore version RTX64 v3.6.2
- Pyramix v11 MassCore users needs a RTX64 3.0 key in order to Install and run MassCore. See with your Merging Sales Partners.
- It is necessary to remove the previous Pyramix version, if there is one, from the Windows Programs and Features, and then reboot your system before installing Pyramix v11.1.
Unless you are planning to update to; Windows 10 Creator (1703) or Fall Creator (1709) or Spring Creator (1803) or October update (1809) when it is recommended to first remove MassCore before performing the update. In such case follow the procedure document <https://confluence.merging.com/display/PUBLICDOC/Windows+10+Update+from+Fall+Creat+or+to+Spring+Creator>
- After installing Pyramix v11.1 MassCore users might need to uninstall their previous MassCore from the MT Security setting, MassCore Tab, depending on the previous Pyramix version you were running. If there is an older version present you will be warned and required to reboot before updating to the latest version.
- If your Pyramix system never had a MassCore version before, users will have to install the new MassCore version from the MT Security Settings > MassCore tab. A valid MassCore RTX64 -3.0 key is mandatory.
- Users running MassCore 64bit will not be able to move their license to another system (or the same system after a Windows re-installation) unless first making this demand through Merging keys@merging.com. Please justify the reason of your system migration or reinstallation as the RTX64 key is not meant to be frequently renewed. If Merging cannot follow up in a quickly enough (in case of emergency or during weekends) then please contact the Interval Zero (RTX) Sales team sales@intervalzero.com
Note: MassCore/RTX 64bit keys are linked to the system/hardware. MassCore users can have their MassCore/RTX 64bit keys stored on a separate Dongle instead of having it linked to a unique system. Refer to the Merging option SSK-HUD-RTX.

Refer to the Pyramix v11.1 Installation Guide for more details

<http://www.merging.com/downloads>

Warning:

- Windows 7 users could see this [error](#): " Installation of KB3033929 has failed", potentially this update is already installed, proceed with YES
- Additional Online installation notes are available here:
<https://confluence.merging.com/display/PUBLICDOC/Installation+Notes+v11>

Merging Windows 10 Configuration Guide

<https://confluence.merging.com/display/PUBLICDOC/Windows+10+Configuration>



Note: At the Pyramix launch a warning message box will be displayed if your system updates settings are not configured upon Merging's recommendations.

Merging Windows 10 October update & Configuration Guide

<https://confluence.merging.com/pages/viewpage.action?pageId=33259777>

Notes:

- *Anubis must be running ASIO v12.0.1 Build 9995 and higher with ANEMAN 1.1.8 and higher.*
- *For users with Pyramix and VCube installed on the same system, it is mandatory that you upgrade to VCube 7.1 to run alongside Pyramix v11.1*
- *MassCore RTX64 users upgrading their processor on a system that was running MassCore previously must follow a specific procedure, contact support@merging.com for more details.*
- *A new MTCleanUp v11 utility is available through Merging's Support for those having problems with their installation*
Please refer to the Knowledge Base
<https://confluence.merging.com/display/PUBLICDOC/MT+Cleanup>

Pyramix 11.1 Release Notes

Warning: Pyramix v11.1 Projects are not backward compatible with Pyramix v11.0, users must perform a "Save Special as v11.0" in order to open such project in v11.0

V11.1 Features

New MassCore version as of Pyramix v11.1.6 HotFix

- Pyramix v11.1.6 HotFix comes with a new MassCore RTX64 v3.6.2.4881 that is supporting Windows 10 October update (1809) and the Zombieload Windows 10 updates.
- For system configuration refer to the link here:
<https://confluence.merging.com/display/PUBLICDOC/Windows+10+Configuration>

Pyramix packs changes

Increased Output Bus channel count

- **NATIVE ESSENTIAL (MSP-NAT-ESS):**
Available Bus 6 channels (5.1) as of Pyramix v11.1 (was 2 channels with Pyramix v11.0)
Reduced pricing

Increased Channel Count as of Pyramix v11.1

1FS (44.1/48kHz) now supports 48 tracks (was 24 with Pyramix v11.0)
2FS (88.2/96kHz) now supports 24 tracks (was 12 with Pyramix v11.0)
4FS (176.4/192kHz) now supports 12 tracks (was 6 with Pyramix v11.0)
8FS (352.8/384kHz) now supports 6 tracks (was 3 with Pyramix v11.0)

- **NATIVE STANDARD (MSP-NAT-STD):**
Available Bus 8 channels (7.1) as of Pyramix v11.1 (was 6 channels with Pyramix v11.0)
- **NATIVE PRO (MSP-NAT-PRO):**
Available Bus 24 channels (22.2) as of Pyramix v11.1 (was 10 channels with Pyramix v11.0)
- **MASSCORE STANDARD (MSP-MSC-STD):**
Available Bus 8 channels (7.1) as of Pyramix v11.1 (was 6 channels with Pyramix v11.0)
- **MASSCORE PRO (MSP-MSC-PRO)**
Available Bus remains at 128 channels
- **MASSCORE EXTENDED (MSP-MSC-EXT):**
Available Bus remains at 384 channels

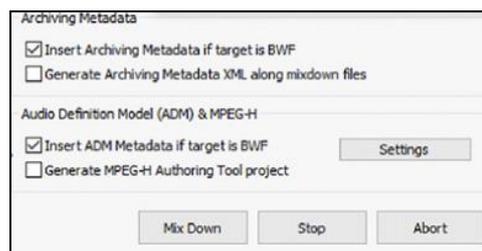
Note: MassCore users will no longer be limited in the Playout timeline tracks to the Mixer when using their Merging dongle (with MassCore key) on a Pyramix Native configuration.

We also enhanced both Pyramix Native Standard (MSP-NAT-STD) and Pyramix MassCore Standard (MSP-MSC-STD) with following additional options:

- Pow-r Redithering
- DDP Creation
- Advanced Interchange (Sonic Solutions /OpenTL Import/FCP XML)

Pyramix 11.1 new: Export of EBU Audio Definition Model (ADM) metadata:

- ADM metadata are exported during a Mixdown process and related options are available in the Mixdown Dialog.
- ADM metadata can only be inserted into BWF files using the *Single Media* option.
- In ADM terminology one ADM Object corresponds to one Pyramix Mixer bus. It must be either General Mixing busses or Objects busses. Exported ADM Objects correspond then to the selected Mix Sources in the Mixdown dialog.
- ADM Programmes and Contents are automatically generated based on the selected Mix Sources (busses) and embed and refer to ADM Objects.
- To generate ADM metadata, just check the "Insert ADM Metadata if target is BWF" check box, make sure to select BWF and Single Media and proceed to Mixdown.
- Additional metadata to define the content of each Mix Sources can be edited in the Settings near the Insert ADM button.
 - Each Mix Sources / Object can be given a Language
 - Each Mix Sources / Object can set as a Dialogue object
 - Each Mix Sources / Object can set as an Audio Description object
- The above metadata in addition to the selected Mix Sources are enough for the ADM export process to properly create logical and comprehensive ADM Programmes and Contents
- Additional Settings options:
 - Always include an additional Programme without any Dialogue, allows for adding one additional Programme with only the Bed and dynamic Objects without any Dialogue. This Programme can be useful for dubbing houses for preparing additional languages tracks
 - Generate DirectSpeakers as Objects allows bypassing the EBU standard speaker sets and generate all objects and beds as pure ADM Objects. Can be required by some ADM renderers.



Pyramix 11.1 new: Generation of MPEG-H Authoring Tool projects:

- MPEG-HAT project uses the same metadata used for generating ADM metadata
- The process and settings are the same as per generating ADM (see above), the only difference is:
 - MPEG-HAT uses BWF using *One File Per Track*
 - The "Generate MPEG-H Authoring Tool project" check box must be checked

The screenshot shows the 'Mix Down' dialog box in Pyramix 11.1. The 'ADM Metadata' window is open, displaying a table of metadata for various audio buses. A blue arrow points to the 'Generate MPEG-H Authoring Tool project' checkbox in the 'Audio Definition Model (ADM) & MPEG-H' section of the main dialog box.

Bus	Language	Dialogue	Audio Description
OB1 (Objects)	und	No	No
MB1 (Bed)	und	No	No
MB2 (English)	en	Yes	No
MB3 (English AD)	en	Yes	Yes
MB4 (French)	fr	Yes	No
MB5 (French AD)	fr	Yes	Yes

Audio Definition Model (ADM) & MPEG-H

- Insert ADM Metadata if target is BWF
- Generate MPEG-H Authoring Tool project

Ambisonic support rather in Pyramix v12 (beta out shortly):

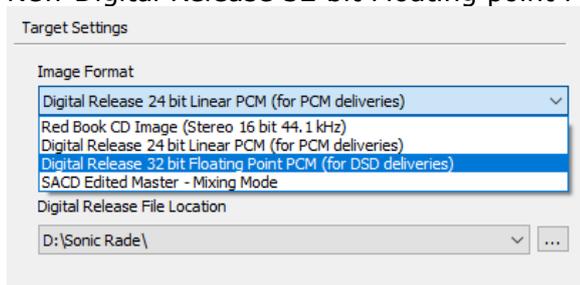
The Ambisonic support is planned for Pyramix v12 Beta cycle.

Users that had created project with Ambisonic components with the Pyramix v11.1 Beta version will still be able to work on those project in Pyramix v11.1 but will not be allowed to create new project with Ambisonic Strips or Buses, as this feature have been disabled.

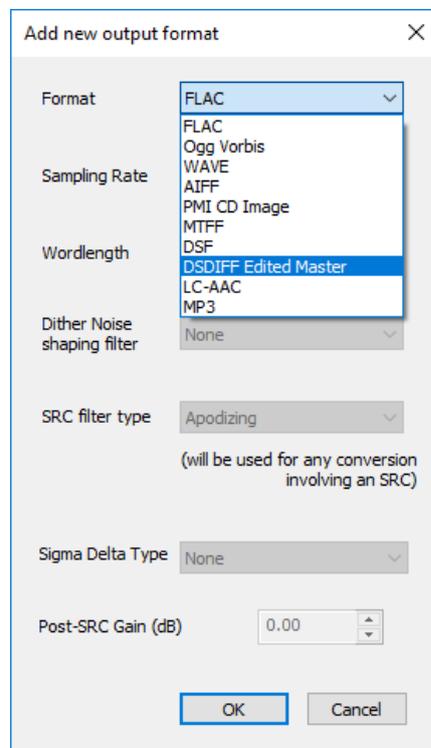
Note: If you absolutely need to complete your Ambisonic project in Pyramix v11.1 and cannot wait for a Pyramix v12 Beta version, Merging does have an Ambisonic Registry Key that will allow you to continue working on your Ambisonic v11.1 project without the need of waiting for Pyramix v12. Ask ryan@merging.com or support@merging.com for more details on this.

Album Publishing enhancements:

- Album Publishing File naming enhancements
 - Added a button to display and append any available tag
 - Added factory preset
 - User presets are now saved in a separate file
- The Album Publishing fields can now be cleaned up
- The Cover artwork is now embedded in a MTFF Digital Release when generated from Pyramix Generate CD/SACD Image
- The Cover artwork embedded into an MTFF can be exploited within DiscWrite for the Album Publishing without the need to specify a file
- New Digital Release 32 bit Floating point PCM support (For DSD delivery)

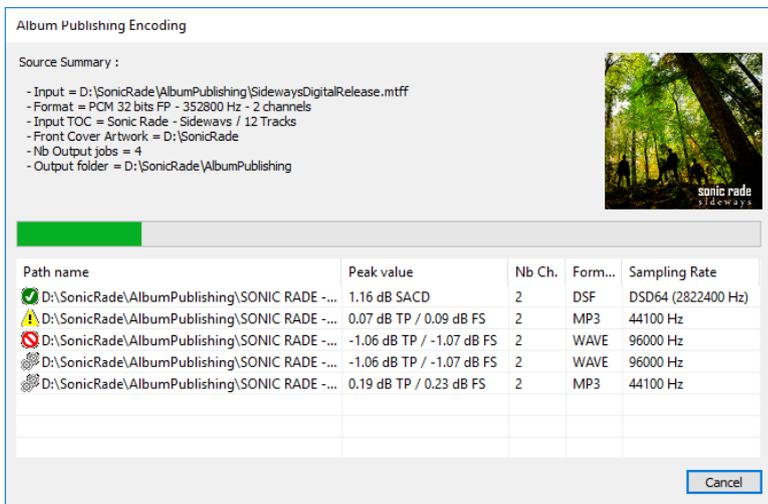


- Create a DSD Digital Release in 32bit MTFF to allow for the transmission of +0dBFS information for DSD delivery. This was introduced to allow publishing DSD files taking advantage of the extra [0, +3] dB DSD dynamic range allowed by the DSD domain.
- Extra Gain parameter available in the Album Publishing output format to be applied before Sigma Delta (DSD output format) or after SRC (PCM output format)
- DSDIFF Edited Master format has been added to the Album Publishing output choices. You can select between three different sampling rates: DSD64, DSD128 or DSD256 This improvement allows users to create DSD Edited Masters from the Album Publishing (e.g. future SACD delivery).



New Album Publishing Encoding dialog

When the Album Publishing files are created, a peak metering measurement is performed and a new dialog windows will open.



- True peak and peak metering is performed during the processing of any Album Publishing PCM deliveries
 - DSD Modulation Level metering during the processing of any Album Publishing DSD deliveries
 - Excessive audio levels tracking and feedback with error report
 - New Album Publishing Progress window with Master Input summary and information display about files being generated and those already generated
- Complete Log file generated on each Album Publishing process. The log file is available after the Publishing process and located in the published destination folder
- Album Publishing Encoding Dialog Path Name Information:

Dialog icons and values:

- Processing:
 - Processing underway
 - Process was successfully completed and verified
 - Processing could not start
- Warning:
 - Full scale: Above 0 dB
 - True Peak: Above 0.1 dB
 - DSD: From and above 3.9 dB

Note: a warning will occur if you cancel the publishing process
- Error Message Box:
 - An error occurred please consult the generated Log file
 - The log file is located in the destination folder of the published files

New Standalone Album Publishing application:

- Installed along Pyramix v11.1
- A new Icon will appear on your desktop
- Can be installed in standalone mode from the Pyramix Custom install option.
- The Standalone Album Publishing will include the MT Security Settings that could require the necessary keys depending of the selected Output Media Formats.
- Standalone Album Publishing allows several instances running concurrently
- Independent Settings for each instance (upon initial Settings changes)

New VST Hosting now supporting the VST3 plugins

Pyramix v11.1 is now supporting VST3 plugins:

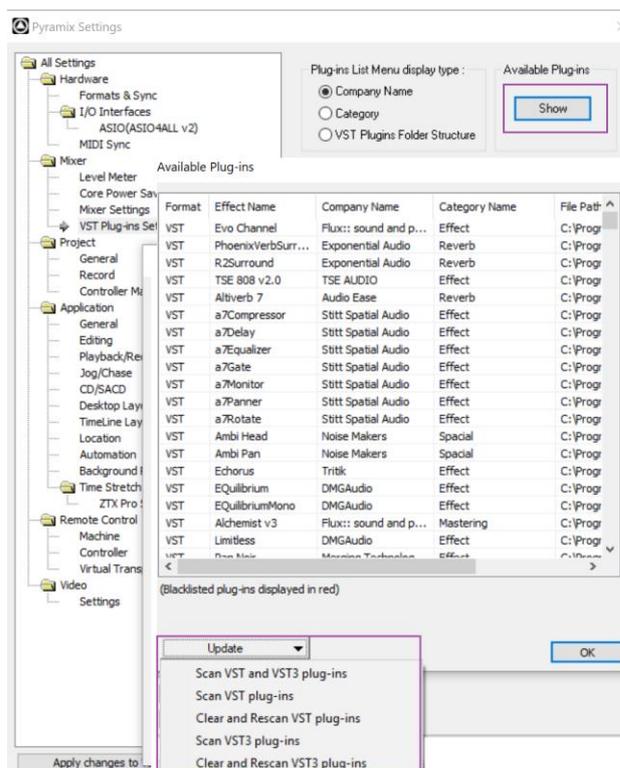
The VST3 plugins are known their technological advancements and creative basis. Users can now benefit from: Improved performance, Resizable edit windows (when plugin supports) and Multiple dynamic I/O's as VST3 plug-ins are no longer limited to a fixed number of inputs and outputs.

- VST3 plugins are now supported in the Mixer along with the VST2 and VS3 plugins
- The VST3 are scanned by default at the launch of Pyramix and do not require that you mount a folder in All Settings>Mixer>VST-Plugins
Note: VST3 plugins are specified to be added into the c:\Program Files\Common Files\VST3 folder, this folder being scanned at the Pyramix launch of on demand form the Pyramix Settings
- VST3 plugins are as well supported in the FX Rendering
Note: The VST3 plugins are not supported in the Render>Effects Rack
- Save Special to previous version (e.g. Save As v10.0 or v11.0) will leave the VST3 plugin within the Mixer as a ghost plugin. Those will not be accessible from previous Pyramix version despite being seen in the Mixer. Automation of VST3 will not be retrievable in Pyramix version prior to v11.1
- Implementation of a Generic Plugin UI for some of the VST and VST3 Plug-ins that are provided without a user interface

VST & VST3 Plugin Scanning dialog

Improvements to the VST Plugins Settings page.

- From the Settings>Mixer>VST Plug-ins Settings we have added options to scan plug-in and move the "Show" button
- In order to scan plugins if those are by example installed while Pyramix is running, first open the Show dialog and then use the *Update* drop down box and select what the scan will consist of:
 - Scan VST and VST3 plug-ins
 - Scan VST plug-ins (VST = VST2)
 - Clean and scan VST plug-ins (will force the VST2 rescan)
 - Scan VST3 plug-ins

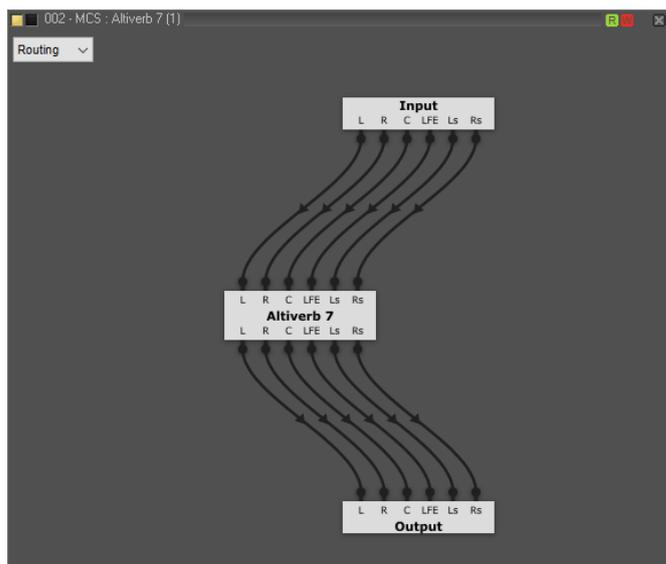


Mixer, VST routing view available in the Plugin user interface:

Allowing the user to customized their channel routing

The Option menu is now accessible from the plugin UI, in the top left region, where you can select either the Editor or Routing view.

- Support for VST2 and VSt3 plugins (no VS3 support)
VST routing view available in the Plugin user interface
- Allows the user to change the automatic channel routing
- The Input/Output sections' channel mapping, follows the channel order of the strip/bus



Record improvements:

- The default record format at project creation was changed from PMF to BWF for recovery and compliance reasons.
- Background Recorder will record in the last mounted folder if no folder was selected when engaging the Background Record

V11.1 Improvements

Remote Controller Improvements:

- Buses colors and Selections improvements, affecting all controllers supporting remote coloring
 - Tracks color support (was also in previous version)
 - Strip color support (predominant over tracks colors)
 - Bus colors support
- General EMC improvements
 - VPot mode navigation changed: all controllers
 - Old behavior: Multiple VPot mode button press did nothing
 - New behavior: Multiple VPot mode button press scroll through all function available for a VPot mode (up to 8). E.g. VPot Pan do the following: L/R > F/R > T/B > DIV > LFE > RoLR > RoFR > RoBT > L/R >...
 - Loop mode status feedback added
 - F1 to F8 key remap into the Pyramix shortcut editor: Mackie, SSL, Studer
 - F1-F8 old behavior: these buttons were used to select a specific VPot sub-item (e.g. VPot set to Pan > F1=L/R, F2=F/R, F3...)
 - F1-F8 new behavior: these buttons are used to be mapped into the Pyramix shortcut editor. The VPot sub-item selection is now done through a multiple push of the VPot mode button
 - Panning VPot display changed: all controllers
 - Mic/Pre control support: Mackie, SSL Nucleus
 - HUI controller various display timeout increased: all controllers
- SSL NUCLEUS controller support in HUI mode Improvements:
 - General Control support
 - Transport Support
 - Jog/Scrub/Shuttle support
 - StripTools/BusTools control support
 - Solo/Mute/Send support
 - Horus/Hapi Mic Pre-gain support
 - Automation mode by strip support

For installation follow the procedure here:

<https://confluence.merging.com/display/PUBLICDOC/SSL+Nucleus+2+Installation+and+configuration>

For Nucleus mapping:

<https://confluence.merging.com/display/PUBLICDOC/SSL+Nucleus+2+Mapping>

Note: Within Pyramix Settings Controller settings MIDI EMC I/O configuration make sure use the NUCLEUS in the controller "SSL NUCLEUS HUI" mode

ANEMAN 1.1.6 Spring 2018:

This new ANEMAN (**A**udio **NE**twork **MA**Nager) version, include the following features.

- New Settings menu:
 - Save and Recall application Windows setup
- Zone Improvements
 - Store and Recall Zone configurations
 - Display of current Sampling Rate
- Quick access menu
- Errors reports
- New Always run mode, 'Dock icon" within tasks
- Better icons for unknown products
- Improved stability
- More details on www.aneman.net

Important: As of v11.1 the ANEMAN installer is no longer included in the Pyramix Installer. Please download and install the latest ANEMAN in order to manage and monitor your AoIP devices from www.aneman.net/#download

MERGING+ANUBIS Users:

Must install ANEMAN v1.1.8 and higher to manage their Anubis connections.
RAVENNA Easy Connect is not supporting Anubis.

V11 Features

New MassCore (RTX64):

A new version of MassCore must be installed as of Pyramix v11.1 (new version of v11.1.6 HotFix)

- Based on RTX64-3.0 the new version is RTX64 3.6.2.4881.
- Supporting Windows 7 - 64 bit and Windows 10 - 64bit
- Requiring a new MassCore / RTX64 - 3.0 key

FX Rendering:

The FX rendering is a clip based offline effect processing tool that supports multichannel IO with flexible routing

- Available from the new "FX Rendering" Tab
- Supports VST2 and VS3 plugins
- Flexible IO routing connections
 - Input and Output modules are independent to the timeline selection
 - Plugins can be Auto-Connected from the Mouse+Right Click Menu, the auto-connection is based on the channel types (If there is no matching, a one to one connection will be applied)
 - Channel mapping is based on the timeline tracks channel type. If no match is possible, a straight 1 to 1 mapping will be applied
 - IO configurable setup panel and IO channel selector for each plugin
 - Plugins can be inter-connected with each other's
 - Multichannel support (up to 8 channels – 7.1 Surround)
- Clip based processing
 - Preserving edits (fades, clip gain, envelope,...) and applying effects, the preview mode does not playback the envelope and fade
 - Multiple selection uses the same paradigm as the consolidate
 - Hard coded 1 second extra handles
 - Channel Type mode matching option
- Preset support, save and load your presets
- Preview/Audition feature
- GUI and FX Rendering settings are stored in the Pyramix project document (.pmx)

Current known issues / limitations:

- VST3 supported as of Pyramix v11.1
- The VS3 plugins: Modulometer, DeNoiser and DeScratcher are not supported in the FX Rendering
- Small timeout at the first plugin insert
- If you do not see the VB Plugins under the FX Rendering please close Pyramix and go to C:\ProgramData\Merging Technologies\Plugins from there remove the available plugins file and relaunch Pyramix.
- The "Process clips individually" option will not consider the timeline: Clip Gain, Envelop and Clip Phase invert. In order to monitor those from the FX Rendering you will have to be in "Process hope Region" mode.

ANEMAN:

ANEMAN is the first cross platform / cross vendor **A**udio **N**etwork **M**ANager

- ANEMAN is installed along with Pyramix v11
- With ANEMAN you can easily connect compatible devices, monitor the network and save/recall connection setups.
- ANEMAN is the RAVENNA Easy Connect replacement, it manages the RAVENNA I/O connections.

RAVENNA Easy Connect is still available and installed with Pyramix v11 if you prefer to use it but will have to be launched manually from

C:\Program Files\Common Files\Merging Technologies\VS3\RavennaEasyConnect

- Merging does not recommend that you run ANEMAN and Easy Connect simultaneously
- Refer to the ANEMAN guide installed along with Pyramix v11 for more details.
- ANEMAN is also available for Mac users, either as a standalone installer or included in Merging's VAD.

Refer to the ANEMAN User Manual installed along Pyramix for all details

- MERGING+ANUBIS Users:
Must install ANEMAN v1.1.8 and higher to manage their Anubis connections.
RAVENNA Easy Connect is not supporting Anubis.

Improvements

- Automation Trim improvement
 - The Automation trim has now a visual indicator when the Trim mode is active (small triangle)
 - When in Trim mode, the fader will be set to 0dB and the offset applied will be reflected on the Fader scale
 - We now apply an offset to the absolute value, and the fader is now fixed its new value
 - Warning: It is intentional that Strips in Trim mode, linked to a VCA, will not be controlled by their VCA master
 - Automation Trim can be applied to linked Strip Faders
 - Without Automation enabled, the Trim behavior can still be used even though it will not write any values, in which case the Fader will remain at its last moved position
 - The Release modes behavior is similar as in previous Pyramix versions
- Automation Snapshot improvements for Displayed tracks
We now displays the Automation timeline tracks within the Automation Snapshot dialog box under the Displayed Tab.
- Pyramix Templates are now located in
C:\ProgramData\Merging Technologies\Pyramix\Templates
- Pyramix now has better handling of the Input listing, naming and numbering classification. Particularly improved for AD modules.
- Pyramix Video playback and synchronization improvements for users with Blackmagic Design video board. As of Pyramix v11.1.2 the offered range is -12 to 12 Frames of delay, meaning that it is now possible to do a negative offset (Video in advance).
- Media Manager and Libraries improvements
Media Folders:
 - Column setting now saved in the _QuickMount7.pml file
 - No more Set Default and Set to Library, only "Apply to Media Folder"

- The set defaults settings will properly be restored after rebooting the application
- Known issue: The set default settings will be lost in case of a folder "Refresh"

Libraries:

- No more Set Default, only Apply to whole Library or Apply to current Shelf

Columns dialog revamped:

- Removed useless column headers
- Double-click on items now works
- Buttons renamed if in a Media Folder or a Library (see above)
- Apply buttons now close the dialog and immediately apply the changes

- Album Publishing Improvements:

- If an encoder fails during a process it will no longer hang
- Log file is created in the main output folder selected by the user
- The user will be notified if an error occurred during the publishing process and he will be able to see possible causes by looking in the log file.
- The Catalog Number field is now exported outside Pyramix

- The RAVENNA ASIO Driver now supports AES67 (48 framing). Refer to the RAVENNA ASIO guide for all details

- Pyramix Native improvements:

Enhanced stability on CPU load. The indicator measurements are more accurate for CPU overloads that have an impact the Pyramix audio engine.

- S3/S6 Controller support improvements

- Pyramix Settings: Updated VST menu Display options.

- No more IO sorting
- Vendor, Category, and Folder structure are the 3 options now
- Displayed effect names are now based on the DLL filename
- Consistent display of the effects menu tree between FX Rendering and Pyramix Mixer

- Album Publishing

- Added UID in published file formats below.
 - For Standard WAV : GENR /TRCK / IPRD were added
 - For BWF : GENR /TRCK / IPRD were added

- Recording

- Prompt name after recording dialog now has option to lock the file name

- Pyramix User Interface enhancements (as of v11.0.5):

- Added Edit Box field to most standard Browse dialogs (basically allows to browse network folders or paste pathnames)
- The CD SACD Info and Track inspector List controls now automatically resize their value column to fit the available window width
- Added popup menu allowing users to replace or clear the existing Cover Artwork entry of a Disc in CD/SACD Authoring tab
- Added tool tips for long fields for CD/SACD
- Reduced flickering in the list controls for CD/SACD

- Video

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- Multiple BlackMagic Video Cards can be selected simultaneously in the Pyramix Settings>Video, up to two.
 - Mixdown Non-Realtime: Now faster by about 25% (as of v11.1.6 HotFix)
Note: A rebuild of the Mixer now takes place after the Mixdown processing

Fixed Bugs in V11.1.6 HotFix Release:

- New MassCore version RTX64 v3.6 as of Pyramix v11.1.6 HotFix
- PMX111-190: Fixed. Exported 'Video TimeCodes File' text files can be truncated if unusual character encountered
- PMX111-269: Fixed. FLAC and OggVorbis files not carrying the Cover artwork in metadata
- PMX111-288: Fixed. Album Publishing fail to create subfolders if using /
- PMX111-291: Fixed. Album Publishing: Pyramix Crash and Files fails to encode (above #13) in Digital Release 32bit and DSF
- PMX111-298: Fixed. Pyramix TOC view and export does not display the total track time
- PMX111-300: Fixed. MTSSRv can crash during Pyramix start up
- PMX111-301: Fixed. FX rendering delay compensation
- PMX111-305: Fixed. MXF error TransferCharacteristics
- PMX111-311 Fixed. Bypass VST plugin status not retrieved correctly at project save/opening.
- PMX111-313: Fixed. Mixer Fader alignment parameter not correctly recalled after saving and opening project
- PMX111-317: Fixed. Unloading a Fabfilter VST3 module will crash Pyramix
- PMX111-318: Fixed. Mixer configure page: adding/removing/duplicating a vst/vst3 effect removes all existing VST/VST3 automation
- PMX111-321: Fixed. VS3 Plugins instabilities at Mixer rebuild.
- PMX111-335: Fixed. 384000 sample rate available to AIFF and WAVE output formats
- PMX111-339: Fixed. Halo Upmix VST2 does not receive right channel signal when on a 5.1 LCRLsRsLFE strip. Requires the latest update from Nugen as well
- PMX111-350: Fixed. Pyramix hangs when mixing down using an already-used file name and the Wrap in Video option
- PMX111-352: Fixed. Effect Rack crash due to remaining reference to ghost plugins.
- PMX120-12. Fixed. Strips with more than 8 channels cause Delay Compensation to corrupt the Mixer and might randomly crash
- PMX120-20: Fixed. Non-Realtime Mixdown does not disable the realtime Mixer, causing it to be near 25% slower that it should.
- PMX120-32: Fixed. VS3 Control Panel: limit number of assignable cores to MSC to 6
- PMX120-68: Fixed. VST3 plugin load faster (Waves)
- GAIA-1381: Fixed. Ovation or Pyramix AIFF conversion fails
- MSC-65: Fixed. MassCore: Ultra and Extra Low Latency, in DXD, will cause an RTSS issue when in SMP mode
- MSC-66: Fixed. DSD project improved spreading over SMP cores
- MSC-67: Fixed. RTX64 not properly uninstalled form MT Security Settings>MassCore tab
- MSC-72: Fixed. RTX64 install not working properly without running MT Security as admin
- RAV-922: Fixed. Software devices: WebApp reconnects forever (due to MassCore NIC network interface custom name)
- RAV-932: Fixed. Potential Click / shifted audio packet when recording multiple hours
- OV71-28: Fixed. Publishing automation from Pyramix to Ovation did not always work
- HEL-723: Fixed. Small mixer popup menu hard to click
- HEL-736: Fixed. Mixdown when file already exist
- Fixed. Effect Rack crash at dialog opening when restoring last used state with unavailable VST plugins (ghost)
- Fixed. Oddity with UPC/EAN check sum digit calculation and verification
- Fixed. Tipro keyboard support for Windows 10 -1809
- Fixed. XML issues: XML export containing certain character CD Disc strings issue and added Catalog Number in XML export
- Fixed. Movement of the main frame or editing in the CD Tab Tracks window to reset the columns width

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- Fixed. Added a Mute All Tracks command in the Tracks menu (for track groups monitoring purpose)
 - Fixed. Graph connections issue in FX Rendering: changing the IO setup to a smaller number of IO with an existing graph would cause invalid connection plugged to nowhere visible instead of disconnecting the pins
 - Fixed. Various VST and VST3 plugin stabilization fixes.

Fixed Bugs in V11.1.5 HotFix Release:

- HEL-755: Fixed. Dynamics VS3 plugin sounds distorted in AES67 (48smp) mode
- PMX111-257: VST3 plug-ins with processing delay still reports latency when turned off
- Fixed. Configuration. Windows 7 wrong configuration error in regard to file location
- PMX111-193 Fixed. Enhancement: MassCore Hosts inserts should be dynamically disabled when not needed (all inserts OFF) to avoid un-necessary delay
- PMX111-240: Fixed. Mixer configure page random crash
- PMX111-252: Fixed. Fixed. RAVENNA ASIO Driver not working correctly with 3rd party application
- PMX111-258: Plugin UI does not come on top of current one when click in mixer plugin
- PMX111-259: Fixed. Some VST plugins (such as Celemony Melodyne) are not connecting their routing when used in a Mono context
- PMX111-260: Fixed. Mixer: changing a channel type from the main mixer page does not notify Effects (VS3 or Native) with new layout
- PMX111-262: fixed the picture metadata embedding for OggVorbis and FLAC files
- PMX111-265: Fixed. Preamp mode (Mic/Line) in Pyramix opposite to what is set in Horus/Hapi settings, with RAVENNA ASIO driver only.
- PMX111-266: Fixed. Random Mixdown crash
- PMX111-267: Fixed. "Not Enough Streams available" with NAT-STD
- PMX111-269: Fixed. TOC display in editor incorrect due to Unix mode
- PMX111-270: Fixed: Playback to mixer channel counts re-defined
- PMX111-275: Fixed. Automating the vst2 "La Petite Excite" plug-in causes random freeze of the User interface (freeze)
- PMX111-279: Fixed. Misleading message box
- PMX111-280: Fixed. PMI files audio length is not guaranteed to be CD frame aligned (could glitch on last tracks e.g. DDP)
- PMX111-285: Fixed. Automation of Native plugins do not follow the strip mode at project reload
- HEL-762: Fixed. UAD VST plugins: parameters names not displayed properly - regression
- RAV-829: Fixed. PTP domain fixe and Glitches on all devices connected to MSC when a device starts
- RAV-896: Fixed. ASIO 11.1 MIDI Pre backward compatible (Pyramix 11.0 and 11.1)
- RAV-889: Fixed. Easy Connect compatibility issue
- Fixed: Standard Bypass parameter of a VST3 Generic Editor did not get refreshed when bypass got changed from the DAW (mixer UI) with automation Off
- Fixed. Pyramix Mixer tooltip menu opening
- Fixed. Album Publisher: file version and copyright updated
- Fixed. ASIO v11.1 Driver not working accurately with 3rd party DAW
- Fixed. PreAmps remote control inverted (Fixed with RAVENNA ASIO driver v11.1)
- Fixed. Folder structure menu display sorting algorithm now inspect the VST3 folder.
- Fixed. DSD EM Toc negative Timecode offset issue (marker ignored / track)
- Fixed. Added Open file Location to the right click menu of a file item in the Album Publishing Process Dialog list control
- Fixed. Edited Master cannot have 2 markers for same Timecode fixed.

Fixed Bugs in V11.1.4 Release:

- PMX111-249: Fixed. Album Publishing adding 2 seconds of silence on first track
- PMX111-255: Fixed. Potential Crash at end of a Mixdown
- PMX111-256: Fixed. Bus Tools crash in Native with low lookahead.
- Fixed. Mixer Configure page shows Legacy bus at the lower level in a legacy sub-menu (to be consistent with the Main Mixer page)
- Fixed. Standardized Dolby Speaker set arrangements
e.g. L, R, C, Surround L, Surround R, Surround Center L, Surround Center R

Fixed Bugs in V11.1 RC1:

- PMX111-205: Fixed. Potential Hang of Pyramix at the Stop Record (Autosave)
- PMX111-210: Fixed. Mixer Configure Page: cannot change the channel type of multichannel strips (>8)
- PMX111-214: Fixed. FX Rendering: All VB plugins (but Aphro range) GUI changes crash Pyramix
- PMX111-216: Fixed various VST2 and VST3 instabilities
- PMX111-223: Fixed. Background Recorder will record despite having no folder selected
Note: last mounted folder will be used in such case
- PMX111-227: Fixed. Automation Crash with some VST plugins and controllers (Tango)
- PMX111-228: Fixed. Automation Hang after performing Plugins automation and rebuilding the Mixer
- PMX111-230: Fixed. PSP Vintage Warmer VST Plugin could crash Pyramix
- PMX111-233: Fixed. EQx Master Gain still applied when Bypass is engaged
- PMX111-238: Fixed. Album Publishing: DSF should limited to 6 Channels at most
- PMX111-243: Fixed. Aux Bus and Aux Send don't process VST/VST3 inserts
- PMX111-244: Fixed. Pyramix crash when changing the strip return routing.
- PMX111-245: Fixed. Album Publishing: writing artwork in large (>4GB) DSF file with existing metadata corrupts the whole metadata tag
- PMX111-247: Fixed. Album Publishing: master ID code field available to File-naming's list of tags
- ANM-307: Fixed. ANEMAN: Pressing the Pyramix shortcut icon for ANEMAN should re-open this one and not give us warning
- HEL-617: Fixed. Altiverb XL doesn't allow multichannel in FXRendering & Mixer Routing
- HEL-698: Fixed. Catalog number overwritten by UPC Barcode
- HEL-721: Fixed. Pyramix might crash when adding / removing several strips in a VCA group
- RAV-845: Fixed. Advanced WebApp: update discovery combo-box every 3s
- Fixed. Album Publishing issue (removing parentheses)
- Fixed. DST encoding and decoding issues for 128 FS and 256 FS Edited Masters
- Fixed. SACD Cutting Master Import: EMID creation now conforms to the rest of Merging practices for Imported DSDIFF Edited Masters

Fixed Bugs in V11.1 Beta 2:

- PMX110-79: Fixed. Meters send are playing incorrectly.
- PMX111-118: Fixed. Mixer: Muting Strip leaves audio leaking into the Aux Buses when send is set to PreFader
- PMX111-139: Fixed. S3-S6: using controller to solo/un-solo strips was not affecting the new Aux Group Buses Sents
- PMX111-145: Fixed. Video Stuttering when enabling the record
- PMX111-150: Fixed. Some BWF file with accents (é) will not be displayed correctly in Pyramix
- PMX111-153: Fixed. Trimmer: Cannot playback composition snapshots
- PMX111-166: Fixed. Standalone Album Publishing combines files extensions in dialog
- PMX111-167: Fixed. Some VS3 plugins specifically the Delay consume lots of MassCore Memory (limits its usage at high sampling rates DXD)
- PMX111-182: Fixed. Pyramix crash with controllers with VST remote control (Oasis-Tango-EuCon) and going to the Aux Groups and controlling VST plugins
- PMX111-185: Fixed. VST plugin folder listing always empty.
- PMX111-186: Fixed. user presets are now saved in a separate file
- PMX111-187: Fixed. Generated PMI from Pyramix can have corrupted TOC
- PMX111-188: Fixed. Record dialog status loses the track name if closed and re-opened
- PMX111-189: Fixed. Pyramix crash with controllers and VST remote control (Oasis-Tango-Eucon)
- PMX111-194: Fixed. Some VST plugins (Altiverb) are causing Pyramix to crash or hang at project opening
- PMX111-201: Fixed. Album Publishing File naming enhancements
- PMX111-202: Fixed. Surround Meter plugin can cause a crash at Project opening (Native)
- PMX111-214: Fixed. FX Rendering: All VB plugins (but Aphro range) GUI changes crash Pyramix
- PMX111-215: Fixed. Crash when importing some video with BMD enabled
- PMX111-219: Fixed. Ambisonic: Strangeness with Strip to Ambisonic levels
- PMX111-221: Fixed. FX Rendering will hang on any rendering
- HEL-403: Fixed. Graphics and Video IO, and Negative offset in Pyramix timeline video playback
- HEL-509: Fixed. Remote Controllers. Buses colors and Selection are not applied
- HEL-510: Fixed. Remote Controllers. EQX filter order on S3 not correct
- HEL-542: Fixed. Multiple BM Video Cards available in Video settings
- HEL-591: Fixed. Video thumbnails not playback accurate after seeking (part II)
- HEL-624: Fixed. Collect to Media folder should not copy files from subfolders of the project media folder
- HEL-660: Fixed. Slow video playback on the graphic when the delay compensation is enabled
- HEL-665: Fixed. Album Publishing forbids the use of simple quote (') characters in output filenames
- HEL-675: Fixed. "Bus reassignment on Paste" not available with new Buses
- HEL-680: Fixed. EuCon Bypass not working with some VS3 plugins
- HEL-696: Fixed. Some Video Settings were added in the Save & Load All Pyramix Settings
- HEL-697: Fixed. 'Publish to Ovation as New Cue' without clips on the first track of the timeline do not display correctly
- HEL-717: Fixed. According to IRT with Open GOP and MPEG2 - index references to an I-Frame in the past
- HEL-733: Fixed. Track Group Tab: Be able to assigned items in the Collapsed Display at once with multiple groups selected
- OV71-3: Fixed. Pyramix edits sent to Ovation were wrong if audio missing on tracks
- RAV-816: Fixed. ASIO status must not be reported as an error but as a status
- ANM-258: Fixed, ANEMAN Matrix fixes and cookie remembers last tab / matrix selection

- ANM-296: Fixed. ANEMAN small enhancements (Zone and reported Sampling rate)
- ANM-297: Fixed. ANEMAN: Horus or Hapi ejected from world view zone at times (when opening the web access)
- ANM-298: Fixed. ANEMAN: Error from Horus not reported in ANEMAN properly
- ANM-300: Fixed. ANEMAN: Not always showing devices with IO connectivity (Hapi/Horus)
- Fixed. Multiple Objects over multiple Object Bus issue
- Fixed. Bug in Album Publishing: if a DSDIFF Edited master had 2 TrackStart and TrackStop with same TimeCode, this ended up skipping the last track (imported TOC)
- Fixed. MassCore can now be uninstalled even if you have no MassCore key loaded
- Fixed. Topmost displayed Track Group Collapsed issue (+)

Fixed Bugs in V11.1 Beta 1:

- PMX110-142: Fixed. Enhance Pyramix shortcut editor
- PMX110-185: Fixed. Mixer: Loading Memory Preset file will not recall previous PreAmps Gains
- PMX111-91: Fixed. Digital Release: Cannot process FLAC 88.2 kHz using 32bit source
- PMX111-106: Fixed. Mic PreAmps: Project opening does not always ask for the PreAmps reload despite active under the Pyramix Settings
- PMX111-120: Fixed. PreAmps: connection can end up in N/A (not available) instead of Mic-Line will all parameters reset
- PMX111-130: Fixed. Resign the Album Publishing Properties settings, as well as unlinking them to the DiscWrite Album publishing setting.
- PMX111-142: Fixed. New General Buses missing "apply all strip input gains to send gains" option
- PMX111-154: Fixed. Warning message if system is not configured upon Merging's recommendations
- PMX111-156: Fixed. Remove restriction, allowing playback from Strips to Mixer above 16 when a project comes from a Pyramix MassCore system and is opened on a Pyramix Native
- PMX111-161: Fixed. Album Publishing: add DSD Edited Master output format
- MSC-44: Fixed. Memory Diagnostic Scheduler Task disabled at MassCore startup
- HEL-512: Fixed. VS3 Playback Engine Memory size
- HEL-591: Fixed. Video thumbnails not playback accurate after seeking (part I)
- HEL-606: Fixed. Prevent the change of the take name in the "Prompt for name after recording" > Record Name
- HEL-607: Fixed. Ctrl + click on a selection of several VCAs does not allow users to modify the VCAs selected. The Link is supported between VCAs or between other strips, not between VCA + other strips.
- Fixed. Feature: Create a DSD and a PCM Digital release options (MTFF 32Bit request)
- Fixed. Nucleus Controller improvements, also impacting other HUI controllers

Fixed Bugs in V11.0.6 HotFix:

- PMX111-54: Fixed. AAF Import: Replace rendered fade clips not working for non-embedded AAF
- PMX110-199: Fixed. FX Rendering crash if enabling SRC to deliver higher output sampling rate
- PMX110-123: Fixed. New MassCore version (RTX64 v3.3) supporting Windows 10 Fall Creator Update (1709) and the Meltdown and Spectre Windows updates
- PMX111-124: Fixed. Pyramix Freeze while editing in Pyramix with Bars and Beats scale
- PMX111-125: Fixed. Crash while editing in Pyramix random
- PMX111-137: Fixed. Editing crash, media reference issue

- PMX111-140: Fixed. Saving project to another name does not update the Mixdown to the new project name
- ANM-241: Fixed. Crashing Pyramix MassCore can cause some ANEMAN connections to disappear
- HEL-372: Fixed. AAF multichannel medias do not relink (e.g. BWF from Nagra & Sonosax)
- HEL-388: Fixed. Native Mixdown non-realtime clicks (MXF Handler issue)
- HEL-430: Fixed. Import AAF from Adobe into PMX is not good
- HEL-504: Fixed. FX Rendering VS3 plugin UI closes when preview or render
- HEL-505: Fixed. FX Rendering preview issue when clips are not on contiguous tracks and matching channels types
- HEL-515: Fixed. Modifying the automation mode not reflected on the plugins automation
- HEL-527: Fixed. Pyramix 11 did not open the valid path for templates with the 'New from Template' function
- HEL-548/GAIA-1057: Fixed. Import dialog will keep and recall the last action
- HEL-529: Fixed. Surround Channel options choices in Mixer and Configure Page
- HEL-560: Fixed. SACD Cutting Master Import with Areas of different length
- HEL-541: Fixed. MXF Imported file with wrong index table causes Pyramix freeze/crash
- HEL-547: Fixed. Pyramix crash when cut-paste-undo video files
- HEL-557: Fixed. Crash when removing strip or bus if Meter Bridge was enabled
- HEL-574: Fixed. Pyramix can crash when undo tracks add/remove/move
- HEL-575: Fixed. Crash if EQx or Angudion II plugin GUI are both open in Mixer and FX Rendering
- HEL-586: Fixed. Pyramix crash at startup with BMD MiniRecorder
- HEL-617: Fixed. Altiverb XL VST Plugin didn't allow multichannel setup in FXRendering
- HEL-618: Fixed. Avoid duplicated names in some case for VST plugins such as b<>.com
- GAIA-543/1160/955: Fixed. Hovering over file path should show the entire path name in all windows
- GAIA-1144: Fixed. Converting surround DSDIFF causes channel swapping
- GAIA-1146/HEL-518: Fixed. VT2 - Save VCube composition, default setting changed
- GAIA-1201: Fixed. The Mixdown filename will be the Project name until changed
- GAIA-1418: Fixed. Automation - VST to end not working in some circumstances
- MSC-42: Fixed. Pyramix MassCore freeze
- Fixed. Mixer: Tooltip combo boxes in Configure page
- Fixed. Mixer VST windows size mismatch (windows always a bit too big)
- Fixed. Korg controller "nanoKONTROL2": support in MackieControl and HUI mode
- Fixed. Mounting Rules support for -L, -R suffixed files
- Fixed. FX Rendering:
 - Enabled delay compensation for preview
 - Pre and Post handles are ignored for per clip previewing, to be consistent with the timeline playback cursor

Fixed Bugs in V11.0.5 HotFix:

- PMX110-69: Fixed. VST Read-Write Automation status not saved
- PMX110-173: Fixed. Random crash when editing in Pyramix (e.g. making crossfades)
- PMX110-175: Fixed. FX Rendering: 8FS/DXD processing issue
- PMX110-176: Fixed. FX Rendering: Added notifications when relevant change occurs
- PMX110-180: Fixed. FX Rendering: Closing Plugin GUI hides Pyramix behind windows
- PMX110-181: Fixed. AAF recall Dialog Settings are kept
- PMX110-186: Fixed. Timestretch from Timeline gives a file already exists error message
- PMX110-187: Fixed. FX Rendering: effects with delay compensation slips in processing
- PMX110-188: Fixed. FX Rendering. Extra handles feature when using Region mode
- PMX110-189: Fixed. Envelop can jump to infinite values when moving points
- PMX110-190: Fixed. Native TimeCode drifts over time
- PMX110-194: Fixed. Detect Picture Change crash v11

- PMX110-195: Fixed. StripTools: Causing muted strips if used in AES67/48smpl mode with DXD project
- PMX110-202: Fixed. Crash making large Mixer or changing channel count of Buses
- PMX111-34: Fixed. Added iXML TrackName into "Compose Clip Text out of" under the Pyramix Settings
- GAIA-590: Fixed. AAF import to retain timestamps and track names
- HEL-422: Fixed. Pyramix Video in timeline non-Frame accurate (drift over time in ASIO)
- HEL-426: Fixed. FX Rendering: Implement function in the FX Render Graph Processor to provide Time and Transport Info to plug-ins
- HEL-337: Fixed. VS3 Control Panel might not show a MassCore option selectable if the card (NET-MSC-GBEX1) has changed slots at one point.
- HEL-396: Fixed. Album Publishing hangs if TAB characters in CDTEXT
- HEL-447: Fixed. FX Rendering: Processing improvement when new render or preview occurs, to avoid renders from spilling into each other's
- HEL-486: Fixed. Pyramix 11 crash when doing a DSD Render
- HEL-453: Fixed. Freezing issue with Clip Based rendering when silent (e.g. no channel match) input involved
- HEL-456: Fixed. Filter sampling rate not supported in settings and wizard
- HEL-459: Fixed. Add UID to Album Publishing BWF files
- HEL-460: Fixed. Native Playback Stalls - Buffer size issue
- HEL-461: Fixed. Some ASIO devices not working with V11
- HEL-471: Fixed. FX Rendering. Preview in clip based mode: You can preview any of the selected clips, using the added drop down menu
- HEL-479: Fixed. DDP Import - CDtext not imported
- HEL-480: Fixed. Mixer: Reordering Mixer strips from the Configure Page does not apply the changes correctly
- HEL-495: Fixed. Switch sampling rate in a specific project can make ASIO freeze
- HEL-517: Fixed. At times some projects cannot be set to DXD sampling rate
- HEL-523: Fixed. Track header strip names not updated when reordering mixer strips
- HEL-553: Fixed. Pyramix Track Peak meters are never reset
- ANEMAN: Fixed. Various improvements
- Fixed. Editing Video and Audio inconsistencies
- Fixed. Issues with Selection in track groups, where some selections of Grouped clips were not maintained through other groups
- Fixed. Allow users to open a DSD project without an ASIO DSD capable audio device (in either DSD or DXD)
- Fixed. Pyramix User Interface enhancements
- Fixed. Mute issue at device restart (e.g. when restarting Horus/Hapi)

Fixed Bugs in V11.0.4:

- GAIA-662: Fixed. Jump between strips in the Surround Panner Overview window
- GAIA-1414: Fixed. Big slow down when making large selections in timeline
- PMX111-40: Fixed. BMD delay not correct when chasing without stopping first
- PMX111-50: Fixed. FX Rendering: more coherency between the Audio I/O setup layouts and the layout in the Plugin IO setup popup
- PMX110-15: Fixed. 9pin chase not working with BMD video
- PMX110-79: Fixed. Bus Send Meters are playing incorrectly
- PMX110-116: Fixed. Pyramix video : 1 frame additional delay in chase TC and Video sync accuracy
- PMX110-117: Fixed. BMD delay not correct in playback reverse
- PMX110-172: Fixed. FX Rendering: Some buttons are not always active
- PMX110-179: Fixed. Video IO delay offset not working with Blackmagic card
- ANM-209: Fixed. ANEMAN Plug-in Manager bug fixes and version identification

Fixed Bugs in V11.0 RC1:

- PMX110-39: Fixed. CD player, Transport, Take Logger display truncates some of the UI
- PMX110-48: Fixed. Save as Template not working under Windows 10, changed location to C:\ProgramData\Merging Technologies\Pyramix\Templates
- PMX110-78: Fixed. Add Strip MCS 4.0 Quadro (L-R-Ls-Rs) -> 3.1 Surround (L-R-Cs-Lfe)
- PMX110-147: Fixed. DSDRender now writes its log files along the generated media file at its source location.
- PMX110-148: Fixed. Templates have been moved to C:\ProgramData\Merging Technologies\Pyramix\Templates
- PMX110-149: Fixed. Some Channel mapping choices do not create the correct number of channels
- PMX110-151: Fixed. Pyramix v11 on Windows 10 has Dither error issue.
- PMX110-155: New MassCore update to RTX64 – 3.2
- PMX110-159: Fixed. Album Publishing: Metadata missing when using Flac
- PMX110-167: Fixed. Plugin Scanner makes VB VS3 Plugins crash
- PMX110-170: Fixed. FX Rendering: Process hangs when an identically suffixed name is already present
- PMX110-174: Fixed. FX Rendering make plugins window top most.
- HEL-348: Fixed. Collect Media multiple references issue
- HEL-421: Fixed. importing EDL in Pyramix 10.1/2 & 11 does not import Video clips editing

Fixed Bugs in V11.0 Beta2:

- PMX110-74: Fixed. Pyramix MassCore AES67 BusTools EQ crashes
- PMX110-103: Fixed. Pyramix now has better handling of the Input modules' listing, naming and numbering classification
- PMX110-122: Fixed. Pyramix crash when transport machine object was allocated on high 64-bit address
- PMX110-132: Fixed. SACD render mode can crash at render start
- PMX110-133: Fixed. Pyramix DSD render on non DSDIFF Surround media, will swap the Center and Right Channels.
- PMX110-134: Fixed. AMR potential crash when having both Hepta SRC and Resampler in the processors stack

- PMX110-138: Fixed. MTOASIS_MACKIE_M.xml error when adding MACKIE HUI controller.
- PMX110-146: Fixed. Opening or closing templates on v11 can crash Pyramix\
- PMX110-149: Fixed. Some Channel mappings do not create the correct number of channels
- PMX110-152: Fixed. Auto stop SuperFetch Windows Service for performance purpose at VS3 start. (MassCore and Native)
- PMX110-153: Fixed. Flux IRCAM Tools VS3 not working in Effect Render Rack
- GAIA-188: Fixed. ANEMAN and Easy Connect not allowed to run simultaneously, warning added.
- GAIA-1434: Fixed. Pyramix v10.2 Apple MIDI Session Port 0 instead of default 5004
- HEL-376: Fixed. Album publishing process freeze if output media file pathnames length exceeds 260 characters
- HEL-363: Fixed. MXF framecount
- HEL-354: Fixed. DC Meter VS3 makes Pyramix hang
- RAV-758: Fixed. RAVENNA ASIO driver issue creating buffer at > 1 FS
- **ANEMAN Bug Fixes:**
- ANM-197: Fixed. ANEMAN Crash when changing sampling rate Horus Master
- ANM-198: Fixed. LTC & Video Ref connections status with proper coloring
- ANM-199: Fixed. LTC out matrix, need to click on the edge of matrix square to connect
- ANM-202: Fixed. New zones overlapping previous ones
- ANM-203: Fixed. Adding a System on the network not always discovered by ANEMAN
- ANM-206: Fixed. ANEMAN not always creating its "aneman" folder under Roaming (missing groups.json)
- ANM-207: Fixed. ANEMAN proxy discovery improvement
- ANM-218: Fixed. Auto expand on click to allow connection if one IO side is collapsed
- ANM-220: Fixed. Do not show connection of deactivated IOs in world view
- ANM-221: Fixed. ANEMAN Magnetic placement of devices in zones
- ANM-222: Fixed. ANEMAN slowdown and random crash
- ANM-223: Fixed. Devices not recognized depending on the Subnet Mask

Fixed Bugs in V11.0 Beta1:

- GAIA-1105: Fixed. Edits on SRCed files when reopening projects
- GAIA-1353: Fixed. Pyramix video delay compensation in Internal Bus record
- GAIA-1369: Fixed. Blackmagic Design Video and PMX audio not in sync in 720p
- GAIA-1368: Fixed. Blackmagic Design Video and PMX audio not in sync when chasing LTC
- GAIA-1415: Fixed. Video in timeline can crash in DeckLinkAPI64.dll when playing certain Video Files.
- PMX110-73: Fixed. Video output sync issues
- PMX110-1: Fixed. Pyramix Video: the Preview will freeze randomly during playback (Windows10 - Windows 7)

---- Bugs below to also be included in a Pyramix v10.2.1 HotFix ---

- PMX110-110: Fixed. Cannot reset VST overload when clicking on the VST indicator side
- GAIA-1403: Fixed. MXF Index table problem/compatibility issue (rdd09)
- GAIA-1425: Fixed. MXF XDCAM HD Metadatas issue (RTS)
- GAIA-1429/GAIA-884: Fixed. VCube & PMX can mismatch different UIDs / UMIDs MXF files
- GAIA-1415: Fixed. Video in timeline can crash in DeckLinkAPI64.dll when playing certain Video Files.

S3/S6 Controller support improvements:

- PMX110-7: Fixed. Automation mode (fader strip) (Latch - Trim Touch - Trim Latch not accessible)
- PMX110-8: Fixed. Custom track color now supported
- PMX110-10 Fixed. Button for opening mix window and closing windows does not work
- PMX110-11 Fixed. Bus names not always displayed correctly in EuControl shortcut (S3) page and properly reported on controller (S3-S6)
- PMX110-24 Fixed. S3 functionalities lost when adding and removing background recorder
- HEL-270: Fixed. EQ-X and Parametric EQ do not show the Q factor control

Pyramix v11 Product Changes:

- Pyramix v11 MassCore and Native support Windows 10 – 64 bit as well as keeping the Windows 7 -64bit support
- Pyramix v11 Native is no longer officially supported on Windows 8.1
- New MassCore versions (RTX64-3.0 key update required)
- ANEMAN replaces RAVENNA Easy Connect, refer to the ANEMAN guide for more details and is no longer part of the installers as of Pyramix v11.1 please download and install ANEMAN from here: <http://www.merging.com/products/networked-audio/aneman>
- PMF File format has been removed from the available Mixdown formats as of Pyramix v11 due to compliance issues. As of Pyramix v11 our recommendations are:
 - For Recording: PMF remains recommended for PCM use and DSDIFF for DSD Records
Note: MTFE is currently not recommended in recording since it does not yet have a Media Recoverer tool in case of a record corruption
 - For Mixdown: MTFE is recommended (for sharing in a multiple Pyramix environment)
 - For Album Publishing: Users can choose the formats of their choice, used through the Digital Release processing for better signal flow
 - For Render: We recommend rendering in the original format or to PMF or MTFE. The DSDIFF is not recommended.
Note: as of Pyramix v11.1 the default record format is BWF, for compliance reasons.
- Algorithmix DeNoiser and DeScratcher remain functional under Pyramix v11 but are no longer maintained.
Warning: These plugins should not be used on Strips or Buses with more than 2 channels (Stereo), otherwise a crash can occur (limitation). Under Windows 10 the DeNoiser Capture Mode does not refresh its displayed capture, users must toggle the mode to refresh the captured display.
- The SeaLevel GPIO's are no longer installed with the Pyramix software. Please refer to the page here for installations: <https://confluence.merging.com/pages/viewpage.action?pageId=15139174>

MassCore Technical Notes:

- MassCore not supported on Core2Duo. Minimum requirement is a QuadCore. Find system recommendations here: <http://www.merging.com/support/pc-config>
- MassCore is supported under Windows 7 (64bit) and Windows 10 (64bit) with Pyramix v11
- MassCore as of Pyramix v11 requires a new RTX64 3.0 Key and a new MassCore installation.
- MassCore 64bit: Activation key is linked to the system and not the dongle) and can only be activated once on a dedicated system. This only applies to 64bit. If you need to re-install MassCore/RTX64 bit on another system using the same key this will not be possible if the key has already been used. For such RTX64 Activation Key Replacements, the request can be made at keys@merging.com or in case of a weekend, emergency through the Interval Zero Support team [IntervalZero Support site](#) This means that if have you already MassCore 64bit on system and want to move it to another system you must contact Interval Zero and RTX64 so that they re-issue the key.
- In order to run MassCore 64bit users will need to have both the RTX64bit Activation key and the MassCore 64-bit key.
- MassCore Ultra Low latency mode can generate noise if used on some configurations (Turnkey recommended).
In such cases we rather recommend instead the use of the AES67 mode or Extra Low latency mode.
- Pyramix Core indicator overloading (red) issue. Recommendation:
 - Under a 64 bit OS: MassCore RTX 64bit users are allowed to run with Hyperthreading enabled. In such case users will by default have 2 Core allocated to MassCore RTX64, as we leave a pair number of Cores for Windows.
Merging recommends to having an SMP key under such configurations.
 - If, under the Bios power options, you have entries such as the *Intel SpeedStep* and *CPU C State* make sure that these options are disabled, as they are potential problems for MassCore. Refer to installation guide or the Windows Configuration guide for all details.
- MassCore & CPU load indicator range (as of Pyramix v10.2 and above)
 - Green from 0% to 74% = Safe mode*
 - Orange from 75% to 84% = Moderate Risk*
 - Red from 85%->100% = High Risk

**MassCore users will have enhanced Core stability when using recommended dedicated Graphic Cards.*



**Native users: Recent laptop owners are often confronted with performance problems when the CPU load is near the mid-point of load, where random CPU jumps can cause sudden glitches. This has also been seen when benchmarking with Non-Merging Applications on recent laptops.*

- When the Core indicator blinks (red), it indicates a drop. Only be concerned if it occurred during Playback/Mix down or Record. To reset the Core drop simply click on the Core indicator. For more information please refer to the appropriate section in the User Manual.
- If you have VST Core peaks under MassCore, users should increase their VST Engine Buffer size value, located under the Pyramix Settings. More information is available in the User Manual.
- External Insert plug-ins: The same input and output cannot be used in the External Insert plug-in and the Mixer at the same time, as they are exclusive to either one.

V11 Known issue:

Merging online knowledge database for updates on the v11 known issues

<https://confluence.merging.com/display/PUBLICDOC/V11+Known+Issues>

- New MassCore/RTX64 key required as of v11.1
- The Windows 10 October Update (1809) update is compatible with MassCore/RTX64 -3.6.2 that comes with Pyramix v11.1.6 HotFix
- Custom installation is known to potentially have issues at installation. We recommend that you install the recommended full Pyramix.
- Pyramix v11.1 Projects are not backward compatible with Pyramix v11.0, users must perform a "Save Special as v11.0" in order to open such project in v11.0
- Pyramix v11 projects with v10/v11 Bus layout/Structure that cannot be saved within a Save Special v9.0 project. A warning message will prevent you from doing so.
- Legacy Bus conversions to New General Bus. Due to the architecture of the new busses, mono mix busses are now converted to Mono Aux busses and not anymore to Mono Mix busses. Refer to the Pyramix User manual for more details.
- The listing of the Pyramix supported remote controllers is available [here](#)
- Mixdown SRC: The SRC option in the Mixdown is shared with the Media Manager Sampling Rate Conversion tool. Be warned that following a Mixdown that is applying a SRC if you then use the Media Manager Sampling Rate Conversion tool and change the SRC parameters, then those values will also be changed in the Mixdown Dialog Box SRC section.
- TANGO I or II Known issues:
<https://confluence.merging.com/display/PUBLICDOC/General+Bus+Ramses+and+Tango+support>
- ISIS controller: New General Bus mapping must be done via the General Settings>project>Controller Mapping where the Bus numbering (order counting the strip) has to be added to the Channel Strip function dialog
- Pyramix Video in timeline: if the Video file is shown as offline at project opening, please refresh your media manager to regenerate the Quickmount
- Pyramix Video in timeline: Opening a project referring to multiple video files or edits can take some time (will indicate finishing for a minute or so), be patient.
- Merging does not recommend users that edit while recording do so with timeline media clips that are not at the same sampling rate as the project. This is because a realtime SRC will have be processed could cause potential performance problems.
- Waves plugins users running with an NVidia graphic card should make sure that they have the Threaded Optimization OFF, if set to ON it may cause issue with Waves VST plugins.
Refer to link here:
<https://confluence.merging.com/display/PUBLICDOC/Graphic+cards+recommended+settings>
- Merging does not recommend the use Disk models: Green, Eco series and Seagate.
- Merging recommends that users with External USB disks to have those configured using the "Better Performance" option under Windows disk properties, profiling tab. Refer to the Merging system configuration guide for more details.
<http://www.merging.com/support/system-configurations>
- MassCore: Core indicator will show a peak/overload after a save on large project or when rebuilding the Mixer (project open-close). Simply reset the core indicator by clicking on it.
- VS3 Algorithmix DeNoiser & DeScratcher are supported but will not be maintained anymore
Known issue: They might display "Demo" (while fully functional) until the first project is saved, closed & re-opened.
- Warning message "Not Enough Streams available": This happens when reaching the maximum number of record inputs. In such case we recommend that you reduce your input number count or disable any Background Recorders that are consuming inputs
Known issue: If afterwards, you get a constant Message Box showing "Re-activating Project" at each Playback start, close and re-open your project to correct this.
- Pyramix v8.1, Pyramix v9.0, Pyramix v10 and Pyramix v11 Library formats are compatible between such versions but not with the previous Pyramix Releases. In order to open these libraries in an older Pyramix version please make sure that you use the proper Save library option. A "Save as Version 7.X" was added to the list
- Final Check Metering is not supported in DXD/DSD mode
- DiscWrite known issues": <https://confluence.merging.com/display/PUBLICDOC/Disc+Write>

- Cannot install Pyramix Native: If you have an error and rollback, make sure that you unplug all dongles that could be connected to your system.
- Timeline and Realtime Sampling Rate Conversion: clicks may occur when doing playback or mixdown in a region where 2 overlapping clips refer to the same media with different sampling rate than the Project's.
Workaround: Convert those master clips to the project's sampling rate in advanced
- The ADR keyboard is by default disabled. Refer to the link below for the procedure.
<https://confluence.merging.com/display/PUBLICDOC/Pyramix+ADR+and+Ovation+keyboard+inst+all+guide>
- Safety Record issue with the take logger: Pressed commands will be applied incorrectly when the transport is stopped. This means that if you press Abort & Delete while in Safety Record, nothing will happen. However, when you come out of Safety Record and Stop, it will apply the command, and delete the take. Handle with care.
- Multiple projects opened simultaneously: We do not recommend users to having more than 8 Projects open at the same time (due to GDI object limitation).
- Cedar users should install the latest certified version for Pyramix v11 64bit
<https://confluence.merging.com/display/PUBLICDOC/Cedar+Renderer>
- The Render Tool will create a temp file for the CEDAR and Nova v0.99 at the root of the C:\ Be aware that Merging cannot change the Temp file patch of such a third party Render.
- Interchange: A non-embedded AAF export to Pro Tools 7x could generate "Could not complete your request because an unexpected error happened while trying to find an audio media file's format" error message. We recommend the use of AAF Embedded when exporting to ProTools 7. ProTools 8 known to be working properly in this case.
- Media Recoverer and DSDIFF Recoverer, those utilities should allow you to repair a corrupted file
<https://confluence.merging.com/display/PUBLICDOC/Media+Recoverer>
- Eucon/Euphonix version 3.6 can be installed alongside Pyramix for 64bit users

Media Manager and Library recommendations and changed behaviors

- The Database Location path is set under Settings>Application>Location>Default Database Location. Otherwise the database path will be C:\Documents and Settings\\Application Data\Merging Technologies\Pyramix
- For better performance Merging strongly recommends that you move the Database location to your fastest system Drive. SATA2 - 7200 rpm Disks are recommended any disk other than the C:\OS default drive will perform better since it will have lower demands placed upon it.
- \Merging recommends that your Disks have the indexing disabled and that you make sure that the Power Management is set accordingly for better performance.
 - Disable File Indexing:
 1. Open "My computer"
 2. Right click on each drive and select "Properties" from dropdown menu
 3. Un-Check the indexing check box
 - Verify the Power Management:
 - Go under Windows Control Panel and open Power options
 - MassCore users Under Windows 7 and Windows 10: Power plan should be set to: "RTX - recommended"
 - Native Users: Make sure you select the "High Performance" power plan
- For ultimate performance Merging recommends that you (not mandatory)
 - Set your Antivirus to off while running Pyramix
 - Set Windows Automatic-Update to "Never Notify"
 - Avoid active internet connection while running Pyramix
- Keeping Mounted Folders when closing and restarting Pyramix can speed up your workflow: Set the option under All Settings>Application>General> "Mount all Media folders that were Mounted at previous Application Exit"
- You can clear the History of the Media Manager under the Media Manager>Media Folder menu, or simply disable the Keep Media Manager History option located in the Pyramix Settings, since this will clear the History at each Pyramix exit.
- Merging recommends Pyramix users save their project on a Disk were no OS resides for better performance (C:\ not recommended).

RAVENNA Technical Notes:

- Windows 7 SP1 (64bit) and Windows 10 (64bit) are supported by Pyramix v11 MassCore RAVENNA and Native
- Pyramix v11 system recommendations. Details here: <http://www.merging.com/pages/pcconfig>
- For ultimate performance we recommend that under ANEMAN you only connect the necessary I/O connections, as every extra RAVENNA connection will use some bandwidth (Core or Network)
- The Network must be Layer 3 compliant and must be a Gigabit network
- Merging has certified new Network Switches for use with Horus/Hapi – Ravenna users will find all details along with the configuration guide here: <https://confluence.merging.com/display/PUBLICDOC/Network+Switches+for+RAVENNA+-+AES67>
<http://www.merging.com/products/horus/downloads>
- RAVENNA users should avoid connecting multiple Horus or Hapi units to any a router/Network not certified by Merging. Refer to the Merging RAVENNA Network Guide for details on the certified RAVENNA switches and their configuration. <http://www.merging.com/products/horus/downloads>
- Only RAVENNA devices can be connected to the Merging PCIe Ethernet Controller Card NET-MSC-GBEX1. Avoid connecting non-RAVENNA devices to this network, such as Tango/Isis/Euphonix controllers or other network devices.
- Don't connect a 100MB Ethernet device if the switch is not multicast; otherwise the flow control will reduce the bandwidth drastically.
- A RAVENNA ASIO driver is available for Horus users that wish to use their notebook GbE Network RJ-45 system socket. Refer to <http://www.merging.com/products/horus/downloads>

RAVENNA Known issues:

- RAVENNA: Switching from MADi Standard (56) to MADi Extended (64) can generate a small glitch, so please avoid doing so during realtime operations
- Merging recommends the use of ANEMAN in order to manage all RAVENNA I/O connections, please refer to the ANEMAN User Manual installed with Pyramix for more details.
- Non-certified RAVENNA configurations might not be capable of sustaining 384 I/O channels @ 1FS (44.1/48 kHz). If you experience noise similar to static, reduce the RAVENNA I/O channel count enabled in ANEMAN. We also recommend that if you have experience such static noise, do not run MassCore in Ultra Low or Extra Latency mode but rather Low latency mode.
- Merging recommends that RAVENNA users disable the Windows Firewall, as it can partially block or otherwise interfere with some of the RAVENNA I/O connections
- Peaks might show up under the Pyramix Core section if you power OFF or disconnect the Horus/Hapi. Recommendation: A valid connection to an online Horus is always required if the Horus is PTP Master. Reset peaks by Mouse Clicking on the Core indicator section.
- Avoid changing a network address, or disconnecting Ethernet ports on your system when MassCore RAVENNA is running
- The ISIS cannot be used when running RAVENNA with the Merging PCIe Ethernet Controller Card NET-MSC-GBEX1
Recommendation: Refer to the ISIS support document below
http://download.merging.com/beta/SupportTools/Docs/AccessoryHardware/ISIS_Vista_or_7_dedicated_lan.pdf
- RAVENNA EasyConnect Troubleshooting tips are available [here](#)
- DSD issues
 - Background Recorders: If the Mixer is not a DSD compatible Mixer (square mixer), the record fails, but no message will be displayed. We recommend that users create a DSD project prior to enabling and starting to work with Background Recorders in DSD.
 - When creating/opening a DSD project the Horus might not switch accordingly between 64/128/256. This has to be done manually

RAVENNA I/O Connections:

In order to create RAVENNA I/O connections please refer to the ANEMAN User Manual (installed along with Pyramix)

Each Horus/Hapi will then appear in your ANEMAN application where you will see the name of each of them online. You will be able to dispatch each Horus/Hapi I/O connection from the ANEMAN Matrix. Refer to the ANEMAN guide installed along Pyramix for more details.

Windows Firewall:

The Windows Firewall can block communication between MassCore and Horus. We recommend users to disable the Public Network Firewall

Procedure:

1. Go in Windows Control Panel > Windows Firewall.
2. Click on "Turn Windows Firewall on or off"
3. Go to the Public Network section and select "Turn Off Windows Firewall"

Windows UAC:

User should disabled the Windows User Account Control

Procedure:

1. Go to the Windows Control Panel\All Control Panel Items\User Accounts
2. Open the Change User Account Setting
3. And set it to "Never Notify"

Disable Antivirus:

Some Antivirus such as Avast or Sophos have been known to block the Horus discovery and RAVENNA I/O Connection. Merging also recommends that any Antivirus software is properly configured to not interfere with the DAW. See this page for further details:

<https://confluence.merging.com/display/PUBLICDOC/Antivirus+and+Merging+Technologies+Softwares>

Pyramix Native Recommendations:

- Windows 7 and Windows 10 - 64bit supported as of Pyramix, Ovation and RAVENNA ASIO v11.
- Please refer to our [Windows configuration guides](#) to optimize system performance.
- Administrator rights are required to configure VS3 Control Panel and the RAVENNA ASIO panel.
- The buffer size of your ASIO interface should be a multiple of 64 samples (64,128,256,512,...). For RAVENNA / AES67 Network, the Merging RAVENNA ASIO driver can be set to multiples of 48 (AES67) or 64 samples (RAVENNA).
- Configure your [Antivirus and Merging Technologies Softwares](#) or turn it off
- Configure your Windows Firewall [Windows Firewall Troubleshooting](#) or turn it off for Public Networks
- Put Windows UAC (User Account Control) to the lowest level (disabled).
- Disable the WIFI (disable the Wireless adaptor not only the WIFI connection)
- Disable Bluetooth if active (under Windows Device Manager)
- Set Windows Automatic-Update to "notify me" or don't let Windows check for Updates while running critical real-time operations on Windows 7.
Set the updates to restart outside active hours on Windows 10.
- Avoid active internet connection while running Pyramix
- Avoid connecting audio interfaces to USB or Firewire hubs, plug it directly into your computer.
- We recommend to activate HyperThreading if allowed by your CPU.
- Power management features must be configured to get a stable system.
- In Windows Control Panel > Power Options, make sure you select the "High Performance" power plan (or "Ultimate Performance" on Windows 10 Spring Creator 1803 and October update 1809)(very common that Powerful laptop are at times in energy saving mode, create a High Performance power plan).
- Avoid using battery power, rather have you power cable connected
- Make sure all unnecessary programs are closed. They can tie up useful resources.
- Turn off any software utilities that run in the background, such as Windows Messenger, calendars, and disk maintenance programs.
- Laptops usually have small graphical resources, Merging recommends you pay extra caution when using the Fixed Cursor option.
- Verify the performance of your Native system.
On Windows 7 by running the DPC Latency checker: http://www.thesycon.de/eng/latency_check.shtml
On Windows 10, DPC latencies can be monitored with Latency Mon <http://www.resplendence.com/download/LatencyMon.exe>
- Laptop users should set their ASIO interface to Topmost Priority in VS3 Control Panel.

Refer to the online documentation for more details

<https://confluence.merging.com/display/PUBLICDOC/Native+recommendations>