

MT128

Startup Script Language.

This document describes the language used in the **StartupScript.txt**. This file is automatically loaded and interpreted when starting MT128 software. It allows customizing and re-defining some options, default behaviors or parameters of the software application.

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StartupScript.txt structure :

Basically, the StartupScript file is a simple Text file divided in different sections. Each section begins by the keyword 'SECTION' and the main syntax of the language is very simple and managed by basically 2 rules :

1- KEYWORD = "value " or KEYWORD "value "

2- A single expression by line.

Below, an example of the StartupScript.txt.

```

Comments [ -----
          - VB-AUDIO MT128 Startup Script
          -----

Section [ SECTION="options"
          -----
          ENABLE  ="NetworkDrive"

Section [ SECTION="accessories"
          -----
          APPLICATION ="RME Midi Remote"
          DESCRIPTION  =" "
          DIR           ="C:\Program Files\RME\MIDIRemotel4"
          EXENAME       ="midiremote.exe"
          COMMAND       =" "
          END

          APPLICATION ="AD8HR Remote Unit"
          DESCRIPTION  =" "
          DIR           ="C:\Program Files\AD8HR Remote Unit"
          EXENAME       ="AD8HR.exe"
          COMMAND       =" "
          END
  
```

REM : a line beginning by a minus sign ('-') is considered as a comment line.

SECTION: OPTIONS

In this section, different options or features can be activated or disabled. Few Keywords are allowed here : **ENABLE**, **DISABLE** and **SET**.

SECTION = "options"

To begin the section

General Options:

ENABLE = "NetworkDrive"

Ask to the MT128 to consider mapped disk (not only local hard disk) for playback and recording. No warranty can be given in term of performances or reliability when using a mapped disk (or network drive) for recording or playback, because the performances are depending on other parameters like network configuration and usage.

DISABLE = "DisplayProjectBeforeLoad"

Prevent to display project settings dialog box before loading an existing project.

DISABLE = "ASIOControlPanelButton"

Disable the ASIO Control Panel Button in the I/O ASIO page, to prevent user to launch the ASIO Control Panel.

ENABLE = "SystemDiskForRecording"

Allows using the System Disk to store project and record media in system disk.

ENABLE = "PlaybackInWaveMapper"

Force using Windows Audio WaveMapper to output audio into the default playback device (automatically done if there is no ASIO Driver present).

DISABLE = "AbortTakeButton"

Disable the Abort Take button in Take Validation Dialog box to prevent to delete any recording. ASIO Control Panel Button in the I/O ASIO page, to prevent user to launch the ASIO Control Panel.

Options related to WAV Import:

ENABLE = "WavImportFromNetworkDrive"

Allows to import WAV file from network Drive

ENABLE = "WavImportFromCD"

Allows to import WAV file from CD or DVD

ENABLE = "WavImportFromNetworkComputer"

Allows to import WAV file from neighborhood (computer near). Not recommended because it brings delay in opening Disk Selector Dialog Box (scanning network can take several minutes to the system).

Options related to Update Package Selection:

ENABLE = "UpdatePackageFromNetworkDrive"

Allows to import Update Package file from network Drive

ENABLE = "UpdatePackageFromCD"

Allows to import Update Package from CD or DVD

ENABLE = "UpdatePackageFromNetworkComputer"

Allows to import Update Package from neighborhood (computer near).

Options related to VTC License Selection:

ENABLE = "LicenseFromNetworkDrive"

Allows to import VTC file from network Drive

ENABLE = "LicenseFromCD"

Allows to import VTC file from CD or DVD

ENABLE = "LicenseFromNetworkComputer"

Allows to import VTC file from neighborhood (computer near).

Options related to Transport functions:

DISABLE = "Recording"

Disable recording function (nothing happens when pushing record button).

DISABLE = "LoopMode"

Disable Loop mode.

Options related to Level Display:

ENABLE = "PlaybackLevelInArmingPages"

When Playback, displays Track Level in Arming Matrix (for all track not armed).

Options related to Waveform Display:

ENABLE = "DisplayWaveForm"

This option enable the waveform display process (that generate a PEK file per project containing envelop information for every sound of the project).

Options related to SoundPad:**ENABLE = "SoundPad"**

This option enable the SoundPad Module (if applicable, means if the license is set).

ENABLE = "SoundPadDisplayK7"

This option enable the SoundPad Module to display small audio tape instead of regular button for every sounds.

(See SET instruction for SoundPad Parameters)

Options related to VBAN:**ENABLE = "VBANServices"**

This option enable VBAN Services to use VBAN Stream, VBAN Midi, VBAN Command features.

Special Options :**DISABLE = "ChaseOffsetCompensationByBufferSize"**

The chasing process is using an internal offset to correct possible delay due to type of time code communications. Per default the Buffer Size of the Audio stream is added to the offset to compensate the delay due to the audio buffering. To disable this delay compensation you can use this Disable command.

ENABLE = "RemoteDriver:2"

This instruction activated the related RemoteDriver on Startup. The Driver Number is given a Unique Driver Identifier given in the list below :

- Tascam US2400	1	USB MIDI – not provided -
- Innovason Eclipse	2	Special Ethernet TCP/IP
- MMC Slave	3	MIDI
- MMC Master	4	not done
- AC7 CORE	5	(iPAD, rtp MIDI) – not provided -
- EYOTRANSPORT	6	(iPAD, rtp MIDI)
- MACKIE GENERIC	7	MIDI
- XKEYS-24	8	HID (SoundPad / MIDI)
- GPIOUSB12-4	9	serial COM 19200

- | | | |
|----------------|----|-----------------------------------|
| - XKEYS-60 | 10 | HID (SoundPad / MIDI) |
| - XKEYS-12 JOG | 11 | HID (SoundPad / MIDI / Transport) |

DISABLE = "WriteDirectAccess"

By default, recording is made by writing file in Direct Access to Disk (bypassing Windows cache). This option disables this option and goes back to regular file write operation. (not really evaluated – until now all record is in Direct Access).

DISABLE = "ASIOSampleCounterMeasure"

Originally made for DANTE ASIO Driver, this instruction prevents to display Alert "RUN ????" when the ASIO Driver does not implement sample counter.

Instruction SET:

This instruction allows defining different parameters of the MT128. The general syntax is given by the following definition:

```
SET = "ValueName=value"  
      or  
SET "ValueName=value"
```

The following SET is allowed:

General Settings:

SET "DefaultProject.ProjectType=SoundPad"

SET "DefaultProject.ProjectType=Playback"

This instruction defines the default project type used when creating new project.

System setting:

SET "nbTrackMax=64"

This instruction defines the limitation on track number. Allowed values are 32, 64 or 128.

SET "nbTrackMaxAt96kHz=64"

This instruction defines the limitation on track number for the 2xFS sample rate (88200 Hz and 96kHz). It allows to limit the number of track when going to this sampling rate (and keep Mirror Support at 96kHz with 64 tracks). Allowed values are 32, 64 or 128.

SET "nbTrackMaxAt192kHz=32"

This instruction defines the limitation on track number for the 4xFS sample rate (176400 Hz and 192kHz). It allows to limit the number of track when going to this sampling rate (and keep Mirror Support at 192kHz with 32 tracks). Allowed values are 32, 64 or 128.

SET "DisplayMonitor=0"

Equal to command line "-On" ('n' is display Monitor number).

SET "ShowDiskManagerButton=1"

Show a new button (below ADMINISTRATION button) in the startup page to get direct access to the Disk Manager (without entering in administrative mode).

SET "ShowASIOButton=1"

Show ASIO PANEL Button just below the Emergency Record button.

SET "ShowASIOButtonInProjectSettings=1"

Show ASIO PANEL Button in the project setting page, just after 'security' button.

SET "MaxUsableMemory=1024"

Set The Max usable memory in Mega Byte available by MT128 and SoundPAD main workflow. Per default this is set to 1536 MB (for 32bit system, we have only 2048 MB available Memory, it includes O/S services and applications code and data)

Mixer default setting:**SET "MixerStripMaxDelay=0.1"**

This instruction define the new maximum delay line used in the ARM-DELAY page (per default 100ms = 0.1).

SET "MixerMasterBusStatus=1"

This instruction gives the default state of the Master BUS : 1 = ON (OFF per default).

SET "MixerPFLBusStatus=1"

This instruction gives the default state of the PFL BUS : 1 = ON (OFF per default).

SET "MixerAUXBus1Status=1"**SET "MixerAUXBus2Status=1"****SET "MixerAUXBus3Status=1"****SET "MixerAUXBus4Status=1"****SET "MixerAUXBus5Status=1"****SET "MixerAUXBus6Status=1"****SET "MixerAUXBus7Status=1"****SET "MixerAUXBus8Status=1"**

These instructions give the default state of the different 8 AUX BUS : 1 = ON (OFF per default).

Mixer default BUS Routing setting:**SET "MixerMasterBus.DefaultRouting.channel1=1"****SET "MixerMasterBus.DefaultRouting.channel2=2"**

This instruction range sets the possible physical output number used for default routing of the Stereo Main BUS. Channels are routed to physical outputs (1 is first output / 0 means the channel is not assigned).

SET "MixerPFLBus.DefaultRouting.channel1=1"**SET "MixerPFLBus.DefaultRouting.channel2=2"**

This instruction range sets the possible physical output number used for default routing of the Stereo PFL BUS. Channels are routed to physical outputs (1 is first output / 0 means the channel is not assigned).

```
SET "MixerAUXBus1.DefaultRouting.channel1=1"  
SET "MixerAUXBus1.DefaultRouting.channel2=2"
```

This instruction range sets the possible physical output number used for default routing of the Stereo AUX BUS #1. Channels are routed to physical outputs (1 is first output / 0 means the channel is not assigned).

For other 7 AUX BUSSES user can use the following lines:

```
SET "MixerAUXBus2.DefaultRouting.channel1=1"  
SET "MixerAUXBus2.DefaultRouting.channel2=2"  
SET "MixerAUXBus3.DefaultRouting.channel1=1"  
SET "MixerAUXBus3.DefaultRouting.channel2=2"  
SET "MixerAUXBus4.DefaultRouting.channel1=1"  
SET "MixerAUXBus4.DefaultRouting.channel2=2"  
SET "MixerAUXBus5.DefaultRouting.channel1=1"  
SET "MixerAUXBus5.DefaultRouting.channel2=2"  
SET "MixerAUXBus6.DefaultRouting.channel1=1"  
SET "MixerAUXBus6.DefaultRouting.channel2=2"  
SET "MixerAUXBus7.DefaultRouting.channel1=1"  
SET "MixerAUXBus7.DefaultRouting.channel2=2"  
SET "MixerAUXBus8.DefaultRouting.channel1=1"  
SET "MixerAUXBus8.DefaultRouting.channel2=2"
```

Track default setting:

```
SET "TrackStatusDisabled=1"
```

This instruction sets the default status (when a new project is created) for all tracks : Disabled (per default tracks are not disabled).

```
SET "TrackStatusArmed=1"
```

This instruction sets the default status (when a new project is created) for all tracks : Armed (per default tracks are not Armed).

SoundPad parameters:

```
SET "SoundPadPolyphony=32"
```

This instruction sets the max polyphony of the SoundPad : the max number of sound playing in the same time. Default value is 16. This number must be adjusted according

computer power. DSP load must be checked to guarantee the processor supports this polyphony.

SET "SoundPadButton=64"

This instruction sets the number of buttons of the SoundPad: the max number of possible button is 128 (when displayed on full HD second screen the button page can show 32 buttons per view). Default value is 64.

SET "SoundPadPlaylist=2"

This instruction sets the number of Playlist managed by the SoundPad module: the max number of possible playlist is 4. Default value is 2.

SET "SoundPadPlaylistButton=256"

This instruction sets the number of possible item in each Playlist.: the max number of possible sound in playlist is 2048. Default value is 256.

SoundPad Default Routing:

```
SET "SoundPad.DefaultRouting.channel1=1"  
SET "SoundPad.DefaultRouting.channel2=2"  
SET "SoundPad.DefaultRouting.channel3=3"  
SET "SoundPad.DefaultRouting.channel4=4"  
SET "SoundPad.DefaultRouting.channel5=5"  
SET "SoundPad.DefaultRouting.channel6=6"  
SET "SoundPad.DefaultRouting.channel7=7"  
SET "SoundPad.DefaultRouting.channel8=8"
```

This instruction range sets the possible tracks used for default routing of the SoundPAD Sound. Channels are routed to tracks (track 1 is first track / 0 means the channel is not assigned).

```
SET "Playlist.DefaultRouting.channel1=1"  
SET "Playlist.DefaultRouting.channel2=2"  
SET "Playlist.DefaultRouting.channel3=3"  
SET "Playlist.DefaultRouting.channel4=4"  
SET "Playlist.DefaultRouting.channel5=5"  
SET "Playlist.DefaultRouting.channel6=6"  
SET "Playlist.DefaultRouting.channel7=7"  
SET "Playlist.DefaultRouting.channel8=8"
```

This instruction range sets the possible tracks used for default routing of the Playlist Sound. Channels are routed to tracks (track 1 is first track / 0 means the channel is not assigned).

```
SET "Sampling.DefaultRouting.channel1=1"  
SET "Sampling.DefaultRouting.channel2=2"  
SET "Sampling.DefaultRouting.channel3=3"  
SET "Sampling.DefaultRouting.channel4=4"  
SET "Sampling.DefaultRouting.channel5=5"  
SET "Sampling.DefaultRouting.channel6=6"  
SET "Sampling.DefaultRouting.channel7=7"  
SET "Sampling.DefaultRouting.channel8=8"
```

This instruction range sets the possible input tracks used for default routing of the Sampling process. Channels are routed to tracks inputs (track 1 is first track / 0 means the channel is not assigned).

```
SET "SPMonitoring.DefaultRouting.channel1=1"  
SET "SPMonitoring.DefaultRouting.channel2=2"  
SET "SPMonitoring.DefaultRouting.channel3=3"  
SET "SPMonitoring.DefaultRouting.channel4=4"  
SET "SPMonitoring.DefaultRouting.channel5=5"  
SET "SPMonitoring.DefaultRouting.channel6=6"  
SET "SPMonitoring.DefaultRouting.channel7=7"  
SET "SPMonitoring.DefaultRouting.channel8=8"
```

This instruction range sets the possible output tracks used for default routing of the Monitoring process. Channels are routed to tracks outputs (track 1 is first track / 0 means the channel is not assigned).

SoundPad Default MIDI-fication:

It is possible to assign a M.I.D.I. Message to 64 first buttons of the SoundPad to send MIDI Command on PUSH Button, to MT128 MIDI Output #1 and #2. Each MIDI Message can contain until 48 bytes (it makes 16 note on messages for example) and be composed of any MIDI event or SysEx (coded in HEXADECIMAL).

General syntax

SET "SPMIDIOUT0button0=aa bb cc dd ee ff gg..."

Example: NOTE ON message sent to Midi out #1 when pushing first button

SET "SPMIDIOUT0button0=90 40 40"

Example: PROGRAM CHANGE sent to Midi out #2 when pushing first button

SET "SPMIDIOUT1button0=C0 40"

MIDI Message can contain multiple events or sysex messages.

Example: PROGRAM CHANGE sent to Midi out #1 to 4 Midi channel.

SET "SPMIDIOUT0button0=C0 40 C1 40 C2 40 C3 40"

Example: MMC START (PLAY)

SET "SPMIDIOUT0button0=F0 7F 00 06 02 F7"

Example: MMC STOP (STOP)

SET "SPMIDIOUT0button0=F0 7F 00 06 01 F7"

Example: MMC START (PLAY) + PROGRAM CHANGE

SET "SPMIDIOUT0button0=F0 7F 00 06 02 F7 C0 00"

MIDI Message on Sound Stop:

In the same way it is possible to define MIDI message for Sound Stop

General syntax

SET "SPMIDIOUT0SoundStop0=aa bb cc dd ee ff gg..."

Example: NOTE OFF message sent to Midi out #1 when first button sound is stopped:

SET "SPMIDIOUT0SoundStop0=90 40 00"

Example: PROGRAM CHANGE sent to Midi out #2 when first button sound is stopped:

SET "SPMIDIOUT1SoundStop0=C0 40"

Events & Rules parameters:**SET "MaxEventDate=2048"**

This instruction sets the max number of Date Events items in "Events & Rules" page. (limited to 64 items on 32bit version).

SET "MaxEventTL=2048"

This instruction sets the max number of TimeLine Events items in "Events & Rules" page. (limited to 64 items on 32bit version).

SET "MaxEventMIDI=2048"

This instruction sets the max number of MIDI Events items in "Events & Rules" page. (limited to 64 items on 32bit version).

SET "EventAndRulesLOG= C:\MyEventAndRulesLog.txt"

This instruction activates and sets the file used to log event and rules being executed days after days (since it is direct file access, the related disk must be running without sleep mode).

VU-Meter Options:

Different parameters can be set to change the aspect of the I/O Pages VU-meters.

```
SET "Meter.ColorRangeBlue=0.0.255"
SET "Meter.ColorRangeGreen=0.255.0"
SET "Meter.ColorRangeYellow=255.255.0"
SET "Meter.ColorRangeRed=255.0.0"
SET "Meter.ColorRangeMax=255.255.255"
SET "Meter.ColorSignal=0.200.0"
```

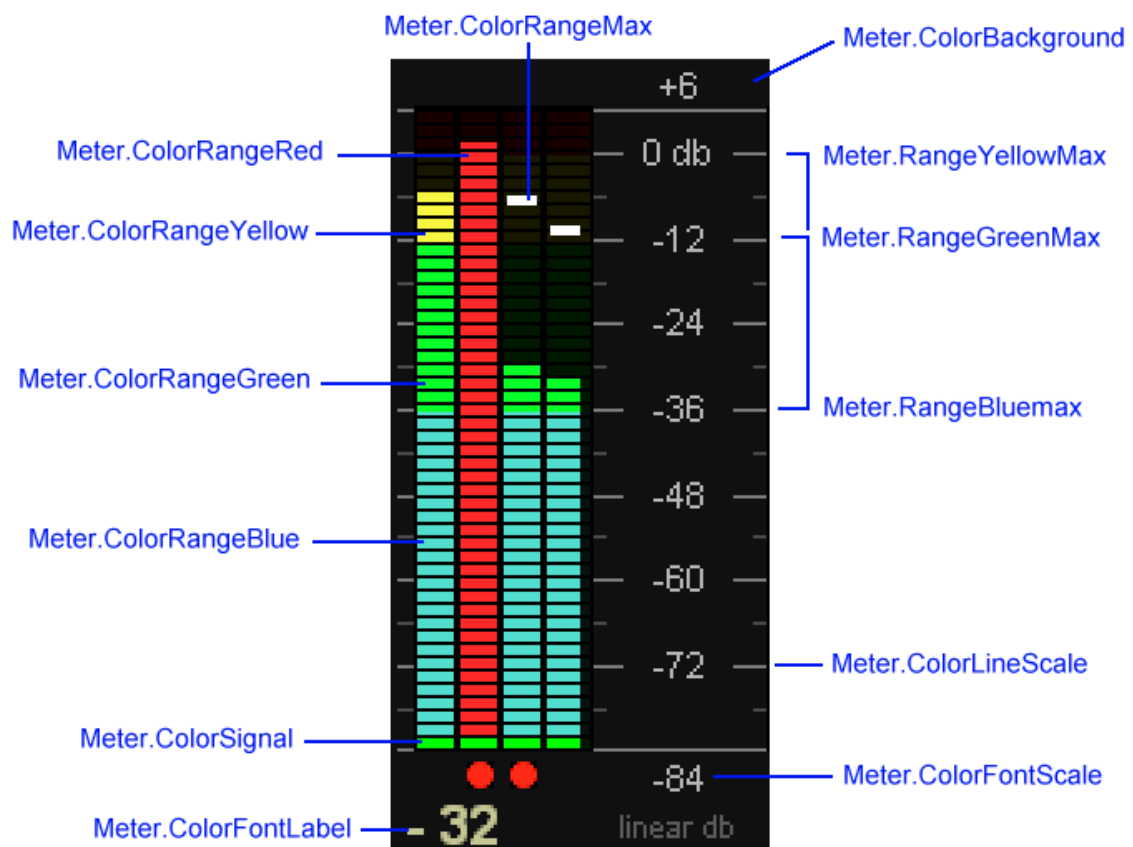
Allows to change color of different meters part by RGB color description (Red Green Blue components).

```
SET "Meter.RangeBluemax=-40.0"
SET "Meter.RangeGreenMax=-20.0"
SET "Meter.RangeYellowMax=-6.0"
```

Allows to change color range by setting max limit in db.

```
SET "Meter.BrushType=1"
```

Brush type: 0 = solid, 1 = 1 pixel line, 2 = 3 pixel LED style.



SET "Meter.AutoHoldTime = 20"
Time to keep the blinking hold max in second.

SECTION: TOOLS & ACCESSORIES

MT128 can launch external application from the **Tools & VBAN** sub page (shown below). But these external applications need to be listed in a special section of the StartupScript to appear in the Tools and Accessories List (left column below).



SECTION = "accessories"

This tag begins the section containing the list of external applications.

To define a given application, the script must describe different fields:

APPLICATION = "RME Midi Remote"

Name of the application appearing in the accessories list.

DESCRIPTION = "" (optional)

Application description / comment

DIR = "C:\Program Files\RME\MIDIRemote14"

Directory where the application will be launched.

EXENAME = "midiremote.exe"

Executable file name.

COMMAND = "" (optional)

Command line content if any.

PROPERTY = "Sampling" (optional)

To specify this application can be used by the SoundPad Sampling process (to provide a quick access to this application directly from the SoundPad Sampling Process)..

END

To finish the description of the application.

Exemple :

SECTION="accessories"

```
-----
APPLICATION      ="Time Calculator"
DESCRIPTION      =""
DIR              ="C:\MT128-Tools"
EXENAME          ="TimeCalc_big.exe"
COMMAND          =""
END

APPLICATION      ="VLC Media Player"
DESCRIPTION      =""
DIR              ="C:\Program Files\VideoLAN\VLC"
EXENAME          ="vlc.exe"
COMMAND          =""
PROPERTY         ="Sampling"
END

APPLICATION      ="RME Midi Remote"
DESCRIPTION      =""
DIR              ="C:\Program Files\RME\MIDIRemote14"
EXENAME          ="midiremote.exe"
COMMAND          =""
END

APPLICATION      ="AD8HR Remote Unit"
DESCRIPTION      =""
DIR              ="C:\Program Files\AD8HR Remote Unit"
EXENAME          ="AD8HR.exe"
COMMAND          =""
END
```

Temporary Options: (obsolete)

ENABLE = "ConvertMT128Base"

On startup, convert old obsolete MT128 Base to the new MT128 base. This conversion was automatically done in the version P57 and P58.

Virtual Locked Memory:

SET "VirtualMinMB=2048"

To define the minimal amount of virtual locked memory used in windows function SetProcessWorkingSetSize(). Applicable only if VirtualLock option has been enabled.

SET "VirtualMaxMB=4096"

To define the maximal amount of virtual locked memory used in windows function SetProcessWorkingSetSize(). Applicable only if VirtualLock option has been enabled.

ENABLE = "VirtualLock"

To fix a potential problem in WIN10 (huge time penalty on page fault interruption system management), this option enables audio engine memory allocation by using VirtualAlloc and VirtualLock functions. VirtualLock Initialization data can also be modified by SET options (see system settings section below).

Default value for x64 MT128 Version:

SET "VirtualMinMB=2048"

SET "VirtualMaxMB=4096"

Customize Splash Screen:

It is possible to replace the default MT128 Splash Screen by another one (Bitmap 640x480) by placing encoded bmp file in the C:\MT128 folder. Then the two following field must be defined in StartupScript.

SET "SplashScreenBitmap=MySplash.bin"

This instruction sets the new bitmap (encrypted) to use as splash screen.

SET "SplashScreenPass =mypassword"

This instruction sets the password to decode the custom bitmap for splash screen.