

Voice Processor
 Firmware Version History

Version 1.4.1 _____ 2016-10-25 _____

Corresponding minimum software versions:

Remote Panel X*AP RM1	35375	X*AP RM1
J*AM - Jünger Application Manager	2.9.24	J*AM
Dante interface board DT-100	1.0.3.8	O_DAP_DANTE_a
Firmware	8.0.0.0	
Module Software	3.7.0	
Module MB App	1.0.3	
MADI interface board MX-164	9.0.0.0	O_DAP_MB_a
		O_DAP_MO_xx_a
SDI interface board SDI-150	51.0.0.0	O_DAP_SDI_a
AES interface board DD-188A	7.0.0.0	O_DAP_AES_a
AD/DA interface board AN-144A	1.0.0.0	O_DAP_ADDA_b

Changes:

- new feature (*Audio*) Leveler in voice channels can now be set to manual freeze to stop it from reacting on unwanted audio signals (coughs, intercom talk...)
- new feature (*Audio*) Leveler in voice channels is now improved with an easier to set up Freeze Threshold and Low Level Behaviour parameters, known from Level Magic
- new feature (*Audio*) Spectral Signature can now be set to manual freeze to stop it from reacting on unwanted audio signals or make use of it as a static equalizer
- new feature (*Audio*) Level Magic (optional license) is now equipped with a response boost function that temporarily increases its reaction to incoming high level signals - please refer to the manual for details (Release)
- new feature (*Audio*) Level Magics initial response to already normalized audio material was significantly improved
- new feature (*Audio*) Level Magic is now equipped with an automatic Clear Processing History function that resets the system on long periods of disrupted audio. Please note, Below Threshold Mode needs to be set to Release
- new feature (*System*) the real time clock can now be synchronized to NTP time servers
- new feature (*System*) system status is now available as a parameter trigger
- new feature (*Interface*) next generation 4x4 analog audio interface board AN144A now supported
- new feature (*Web UI*) important status messages are now shown on a red info bar
- new feature (*Web UI*) preset cleanup function helps deleting unused presets
- new feature (*Mobile UI*) configurable button matrix (please see Mobile UI side menu)
- improved (*Mobile UI*) for simplification only profiles are shown by default (can be reconfigured via Web UI)
- improved (*Interface*) option boards without distinct firmware are now nevertheless shown on the Firmware Update page to provide better system overview
- improved (*Audio*) manual stereo routing is now carried out simultaneously for both channels
- improved (*Audio*) added ITU 1770-4 mode. This mode equals ITU 1770-3
- improved (*System*) status and front panel display turns red on DSP halt
- improved (*Firmware*) firmware files are internally checked for compatibility before update
- improved (*Factory Defaults*) default settings for the loudness recommendations are up to date again
- improved (*Backup*) added serial number to exported backup file name
- improved (*Web UI*) added comment to latency compensation setup
- improved (*Interface*) AN-108 analog interface stability at higher sample rates
- changed (*Mobile UI*) color of manual voice over switch
- fixed (*Audio*) inactive Spectral Signature when switching signal chain order to Filter - Dynamics - De-Esser
- fixed (*Web UI*) all blocks in dynamics section are now greyed out correctly
- fixed (*Web UI*) problem with reloading login page after a couple of seconds, when authentication is active
- fixed (*Web UI*) problem with occasional appearing script problem in some browsers
- fixed (*Web UI*) rarely occurring Web UI inaccessibility due to system overload
- fixed (*Web UI*) problem when importing single presets in Chrome and Firefox Browsers

- fixed (*Web UI*) Local SDI and MADI Routing now works properly
- fixed (*Web UI*) problem when modifying routings in preset section
- fixed (*Web UI*) black favicon in Internet Explorer
- fixed (*Mobile UI*) deleting Hotkeys no longer stops Mobile UI from loading
- fixed (*System*) problem with manual voice over breaking when simultaneously activated via Web UI and Events
- fixed (*System*) occasionally empty system log
- fixed (*Presets*) problem when deleting presets while being loaded
- fixed (*Presets*) empty preset groups are no longer automatically restored to factory settings on reboot

Version 1.3.0 _____ 2015-08-14 _____

Corresponding minimum software versions:

Remote Panel X*AP RM1	30314	X*AP RM1
J*AM - Jünger Application Manager	2.8.12	J*AM
Dante interface board DT-100	1.0.3.6	O_DAP_DANTE_a
Firmware	6.0.0.0	
Module Software	3.7.0	
Module MB App	1.0.3	
MADI interface board MX-164	5.0.0.0	O_DAP_MB_a
		O_DAP_MO_xx_a
SDI interface board SDI-150	51.0.0.0	O_DAP_SDI_a
AES interface board DD-188A	7.0.0.0	O_DAP_AES_a

Changes:

- new feature (*Audio*) voice over functionality can now be triggered manually e.g. by X*AP, Mobile and Web UI or GPI
- new feature (*Firmware*) all option board firmwares are now automatically updated with the main system firmware and kept consistent to avoid any firmware mismatch
- new feature (*Web UI*) true peak limiter look ahead time is now displayed on output control page
- new feature (*Web UI / Audio*) monitor section now features two independent instances
- new feature (*Web UI*) measurement setup page
- new feature (*Web UI*) added level meters for all monitor outputs
- new feature (*Web UI*) measurement setup page
- new feature (*Mobile UI*) manual voice over button can be used in latch (toggle) or hold (follow) mode
- new feature (*Mobile UI*) functions can now be locked or hidden from Mobile UI via Remote Access control page
- new feature (*X*AP*) remote access via X*AP RM1 can now be restricted to single channels or certain function sets
- improved (*Audio*) disabled voice over sources now remain fully muted
- improved (*Audio*) routing handling for removed option boards
- improved (*Web UI*) selectable signal chain order is now indicated clearly on audio processor overview page
- improved (*Web UI*) channel naming is now shown in Spectral Signature
- improved (*Web UI*) missing presets in preset events are now marked clearly
- improved (*Web UI*) unauthorized logins are now collected into a single system message
- improved (*Web UI*) naming consistency for all input and output parameters
- improved (*Web UI*) preset name display within EQ diagram
- improved (*Web UI*) Spectral Signature expert mode now states the center frequency of each band
- improved (*Web UI*) system status page now features a Diagnostics File download button instead of the export log function
- improved (*Firmware*) incompatible option board firmware is now reported for lower and higher firmware versions
- improved (*Presets*) event and preset settings are now synchronized to avoid loss of changes made right before reboot
- fixed (*Web UI*) problems with metering bars when using Chrome browser and Windows 8
- fixed (*Web UI*) backup restore preset filter is now graphically separated from other restore filter options
- fixed (*Events*) empty parameter events no longer appear as other event types
- fixed (*Events*) missing triggers can now be removed from actions without problems

- fixed (*Ember+*) possible race conditions for fragmented S101 packets causing VSM studio to crash
- fixed (*Ember+*) memory leak in Ember+ server when sending warning events
- fixed (*Device Front Panel*) problem displaying umlauts and special characters
- fixed (*Backup*) rare problem restoring backup files shortly after reboot or initialization
- fixed (*AES option*) AES option board DD-188A can now be used as system sync source

Version 1.2.0 _____ 2015-05-11 _____

Corresponding minimum software versions:

Remote Panel X*AP RM1:	30008	X*AP RM1
J*AM - Jünger Application Manager:	2.8.12	J*AM
Dante interface board DT-100:	Firmware 5.0.0.0	O_DAP_DANTE_a
	Module Software 3.7.0	
	Module MB App 1.0.3	
MADI interface board MX-164:	5.0.0.0	O_DAP_MB_a
		O_DAP_MO_xx_a
SDI interface board SDI-150:	51.0.0.0	O_DAP_SDI_a
AES interface board DD-188A:	6.0.0.0	O_DAP_AES_a
Analog Mic interface board VAP-MIC:	3.0.0.0	O_DAP_AMIC_a

Changes:

- new feature (*Audio*) added more factory default presets
- new feature (*Dante*) support for Dante Audio-over-IP Option Board DT-100
- new feature (*Dante*) parameter triggers from Dante network states and audio conditions
- new feature (*MADI*) support for MADI optical/coaxial Option Board MX-164
- new feature (*MADI*) parameter triggers from MADI states and audio conditions
- new feature (*SDI*) redesigned SDI web interface for easy setup, routing and status overview
previous settings are preserved; please become familiar with the new SDI interface after updating!
- new feature (*Firmware*) system firmware now carries all option boards firmware
after updating the system firmware please take a look at the SYSTEM -> Firmware Update page to see whether an option board firmware is available
updating option boards may take a while, please be patient and refer to the Update Guide in the firmware package
- new feature (*Web UI*) real time processing latency display
- new feature (*X*AP*) recent measurement results are now available
- new feature (*Console*) added ctrl + c command to return to console main menu from submenu
- improved (*Audio*) analog outputs automatically mute on non audio signals
- improved (*Audio*) factory default Loudness Mode is now ITU 1770-3
- improved (*Audio*) Level Magic reaction to high level input signals when using Fast Recovery mode
- improved (*Audio*) processing latency display now includes routing delay of three samples
- improved (*Audio*) program latency compensation in minimal mode now references the shortest voice channel latency instead of the longest
- improved (*Dante*) Dante Sync Source display shows detailed info about *AP sync source
- improved (*Dante*) channel status detects all SMPTE non-audio types
- improved (*Web UI*) Processing Profiles are now named equally in all applicable processors
- improved (*Web UI*) added Profiles headline to preset events for better intelligibility
- improved (*Web UI*) Voice Over block diagram for better intelligibility of signal flow
- improved (*Web UI*) minor graphic and naming consistency issues with Level Magic
- improved (*Web UI*) naming consistency for all input and output parameters
- improved (*Web UI*) input filters now have sliders instead of dropdowns like all other filters
- improved (*X*AP*) initial gain and clear history function for Level Magic now adjustable via X*AP
- improved (*Mobile UI*) related graphs are now visually connected by brackets
- improved (*Mobile UI*) user Operator now has access to all Mobile UI functions
- improved (*Mobile UI*) non mobile devices now show standard scroll bars for longer lists

- improved (*Mobile UI*) touch support for iOS devices
- improved (*Mobile UI*) users can now logout manually
- improved (*Mobile UI*) redirect to Mobile UI is now performed before password request preventing double logins
- improved (*Mobile UI*) metering on tablet devices
- improved (*Network*) stability by filtering broadcast and multicast network traffic
- improved (*Presets*) and fine-tuned some parameters within factory default presets and events
- fixed (*Audio*) bypassing Voice Over becomes audible immediately
- fixed (*Audio*) Voice Over for Voice 2 now applies correct amount of gain reduction in program path
- fixed (*Web UI*) problem with Spectral Signature real-time graphic display when preset is selected and channels are unlinked
- fixed (*Web UI*) scroll bar problem in routing matrix
- fixed (*Web UI*) minor glitches in web interface graphics
- fixed (*Web UI*) graphical problems with routing matrix preset
- fixed (*Web UI*) issue with routing matrix displayed in downscaled browser windows
- fixed (*Web UI*) problem with bouncing mouse wheels when setting parameters to their boundary values
- fixed (*Web UI*) unauthorized changes made by user Operator are now correctly reset to last valid values
- fixed (*Web UI*) problem with filter graphs when switching between Program Configs
- fixed (*Web UI*) inconsistency in equalizer graph operation over independent programs
- fixed (*Web UI*) disappeared EQ curves in Internet Explorer
- fixed (*Web UI*) disappeared spectral signature graph curves and Firefox
- fixed (*Web UI*) problem with swapped channels when operating Spectral Signature and EQ
- fixed (*Web UI*) misplaced backup restore box with long file names
- fixed (*Web UI*) copy and paste operations now work flawlessly in preset events
- fixed (*Web UI*) problem with preset names in Spectral Signature when using Chrome or Internet Explorer
- fixed (*Web UI*) Clear Processing History is now set correctly in presets
- fixed (*Web UI*) minor consistency issues in fail over block diagram
- fixed (*Mobile UI*) occasionally unnecessarily reappearing authentication box
- fixed (*Mobile UI*) active firmware update message is now displayed properly
- fixed (*X*AP*) Spectral Signature learn function now correct (per program) in stereo mode
- fixed (*System*) problem caused by long term network inactivity
- fixed (*System*) occasionally unavailable web interface although unit remains working normally
- fixed (*Device Front Panel*) monitor metering now shows correct values
- fixed (*Backup*) restoring backup files using Internet Explorer now works flawlessly

Known issues:

- (MADI) only sample rates that can be recognized by the system will be displayed correctly
- When updating the units firmware, coming from an earlier version the system may regret recognizing the new firmware file as a valid version. A message may appear stating that the file is not suitable for this unit or the MD5 checksum is wrong. This is caused by a change in firmware file structure and can be avoided by using a basic firmware file prior to updating to the final full version.
 solution: please see the Update Guide pdf provided in the firmware zip file for details

Version 1.1.0 _____ 2014-12-05 _____

Corresponding minimum software versions:

Remote Panel:	27922
J*AM - Jünger Application Manager:	2.6.15
SDI interface board:	50

- new feature (*X*AP*) full control over audio processor parameters from the X*AP control panel (make sure to update X*AP firmware also)
- new feature (*Audio*) routing changes are now glitchfree

- new feature (*Audio*) comprehensive set of factory presets and default actions included
- new feature (*Web UI*) Spectral Signature now offers a 1/f-balanced spectrum display option
- new feature (*Web/Mobile UI*) cough cut function in Mobile UI can now be disabled from Web UI (On Air settings in Audio Processor)
- new feature (*Web UI*) clip hold is automatically reset when preamp gain is altered
- new feature (*Firmware*) all option boards firmwares are now included in the units main firmware file
- improved (*Mobile UI*) the user does no longer need to reenter password or use another url for switching between voice 1 and 2
- improved (*Web UI*) sliders are now updated in realtime (hear changes while dragging the slider)
- changed (*Web UI*) linking in program path is now set to linked by default
- fixed (*Backup/Restore*) destinations within actions are now backed up and restored correctly
- fixed (*Audio*) cough cut now sounds as nice in stereo mode as in mono mode
- fixed (*Audio*) using input delay in program path no longer causes audible noise or distortion
- fixed (*Web UI*) voice over active status now depends on mode and no longer on voice enable
- fixed (*Web UI*) processor blocks remain clickable with all processing chain orders
- fixed (*Web UI*) minor problem with clip LEDs
- fixed (*Web UI*) processing block order in monitor section now sorted correctly
- fixed (*Mobile UI*) now works on older Android browsers
- fixed (*Mobile UI*) login now works as operator
- fixed (*Web/Mobile UI*) minor graphical bugs in Web and Mobile UI

Known issues:

- when logged in as operator, the user is not allowed to perform any operations on Mobile UI (loading presets, using cough cut and so on)
workaround: deactivate login for Mobile UI operation
- X*AP: profiles on X*AP may not have the same order from the Web UI
- X*AP: Learn button in stereo mode does not work in voice channel 2, as Spectral Signature only works in stereo and uses the same signature for both channels
workaround: switch to 2xMono mode

Version 1.0.1 _____ 2014-07-23 _____

Corresponding minimum software versions:

Remote Panel:	25105
J*AM - Jünger Application Manager:	2.6.6
SDI interface board:	50

- new feature (*Audio*) Level Magic II for program path (optional license)
- new feature (*Audio*) comprehensive Loudness metering (part of Level Magic II license)
- new feature (*Audio*) phase rotator with auto detection for optimal voice dynamics
- new feature (*Web UI*) graphic interface for equalizer
- new feature (*Audio*) narrow Q peak filter added to equalizer
- new feature (*X*AP*) X*AP control
- new feature (*Mobile UI*) programmable 'red light' and cough cut button
- new feature (*Audio*) sophisticated cough cut function with automatic hold for dynamics processors
- new feature (*Event*) parameter events for J*AM control and easy setup changes
- new feature (*Audio*) first batch of factory presets included
- changed (*Mobile UI*) talent GUI is now called Mobile UI
- improved (*Web UI*) small graphics illustrate filter types in equalizer
- improved (*Audio*) low level behavior of M/S matrix
- improved (*Audio*) mute function for input and output

- improved (*Web UI*) processing block selection in monitor
- improved (*Ember+*) logarithmic audio parameters now have an additional logarithmic Ember+ value
- improved (*Web UI*) support for Safari in OSX
- improved (*Mobile UI*) support for Android
- improved (*Web UI*) stability and accessibility
- fixed (*Web UI*) metering no longer unintentionally interrupted

Known issues:

- clipping the analog inputs may cause lit peak leds in all channel's inputs and outputs (fixed in 1.1.0)
workaround: do not clip the analog inputs
- active settings may get lost when upgrading from firmware version 0.8.X
workaround: export backup file in version 0.8.X and restore it after upgrading firmware
- destinations within actions may get lost when restoring a backup file (fixed in 1.1.0)
workaround: check destination settings within actions after restoring a backup file -or-
workaround: delete and reset destinations before exporting a backup file
- using the input delay in program path (2L/2R) causes audible noise and distortion
fixed in version 1.1.0

Version 0.8.10 _____ 2014-03-28 _____

Corresponding minimum software versions:

Remote Panel:	25105
J*AM - Jünger Application Manager:	2.5.5
SDI interface board:	50

- new feature (*X*AP*) V*AP now supports remote control by X*AP RM1 remote one

Known issues:

- routing page may not load with some special browser configurations (fixed in 1.0.1)
workaround: close and reopen browser or clear cache and restart browser

Version 0.8.9 _____ 2014-03-11 _____

- new feature (*Hardware*) DD-188A option board now supported
- improved (*Web UI*) routing matrix web GUI performance
- fixed (*Web UI*) creating new actions from empty action list is now possible
- fixed (*Web UI*) event page is now loading without issues
- fixed (*Web UI*) minor bugs in web GUI

Known issues:

- restoring backup files does not overwrite existing presets (fixed in 0.8.10)
workaround: restore factory default settings before restoring backup file
- bypass may not work after restoring backup file (fixed in 1.0.1)
workaround: reboot unit after restore (no power cycle necessary)

Version 0.8.8 _____ 2013-12-13 _____

- new feature (*Audio*) minimal latency option in processing setup
- new feature (*Audio*) Limiter Look Ahead Time switchable (1ms or 2ms) for low latency applications
- fixed (*Audio*) sample rate is now correctly updated on power up when sync source is external
- fixed (*Web UI*) talent Interface meters show correct levels

Known issues:

- bypass may not work after restoring backup file (fixed in 1.0.1)
workaround: reboot unit after restore (no power cycle necessary)
- creating new actions does not work as long as there are no entries present in the action list (fixed in 0.8.9)
workaround: try importing any action first and then adding new entries to the action list. You may delete the imported action afterwards
- Look Ahead Delay in Dynamics section is not depending on minimal latency option
workaround: switch off Look Ahead Delay manually

Version 0.8.7 BETA _____ 2013-10-29 _____

- fixed (*Web UI*) import of backup file
- improved (*Web UI*) minor changes in web GUI

Known issues:

- bypass may not work after restoring backup file (fixed in 1.0.1)
workaround: reboot unit after restore (no power cycle necessary)

Version 0.8.6 BETA _____ 2013-09-11 _____

- fixed (*Mobile UI*) talent GUI accessibility
- changed (*Web UI*) peak meter scale to -60dBTP - +3dBTP

Version 0.8.5 BETA _____ 2013-07-09 _____

- new feature (*Web UI*) user authentication on web GUI login
- improved (*Web UI*) software performance
- improved (*Mobile UI*) talent GUI
- fixed (*Web UI*) minor bugs in web GUI
- prepared help system in web GUI (coming)

Known issues:

- event list in talent GUI not working properly (fixed in 0.8.6)
- event and preset import/export disabled

Version 0.8.1 BETA _____ 2013-05-16 _____

- Initial Release