

Products	NXT0802 / NXT1604 / SMX12x4 ASC1602 / ASC1602-4K / ASC3204 / ASC3204-4K / ASC4806 / ASC4806-4K / ASC4806-4K-PL LOE016 / LOE016-4K / LOE032 / LOE032-4K / LOE048 / LOE048-4K	
Date	NOVEMBER 18th, 2015	
Version	3.02.33	Web RCS : V3.02.12

The version(s) indicated here above has (have) been tested and validated by the Technical Support Department.

► **Technical Notes:**

Evolutions

- None

Bug Fixes

- It is impossible to Link a LiveCore Output Expander to a SmartMatrix Ultra (ref. SMX12x4) and a SmartMatrix Ultra equipped with the 4K option (ref.SMX12x4 + OPT_4K_SMX12x4): the link is not available.
- Problems when the internal rate of the unit is inferior to 25Hz :
 - The device can't deliver 4K output signals.
 - Displaying Dual format in the monitoring output produces artefacts
 Rates below 25Hz are now handled properly

Known issues

- When linking two devices, the preview frames of perspective screens are not displayed properly on the Monitoring output of the slave unit.



PREVIOUS VERSIONS



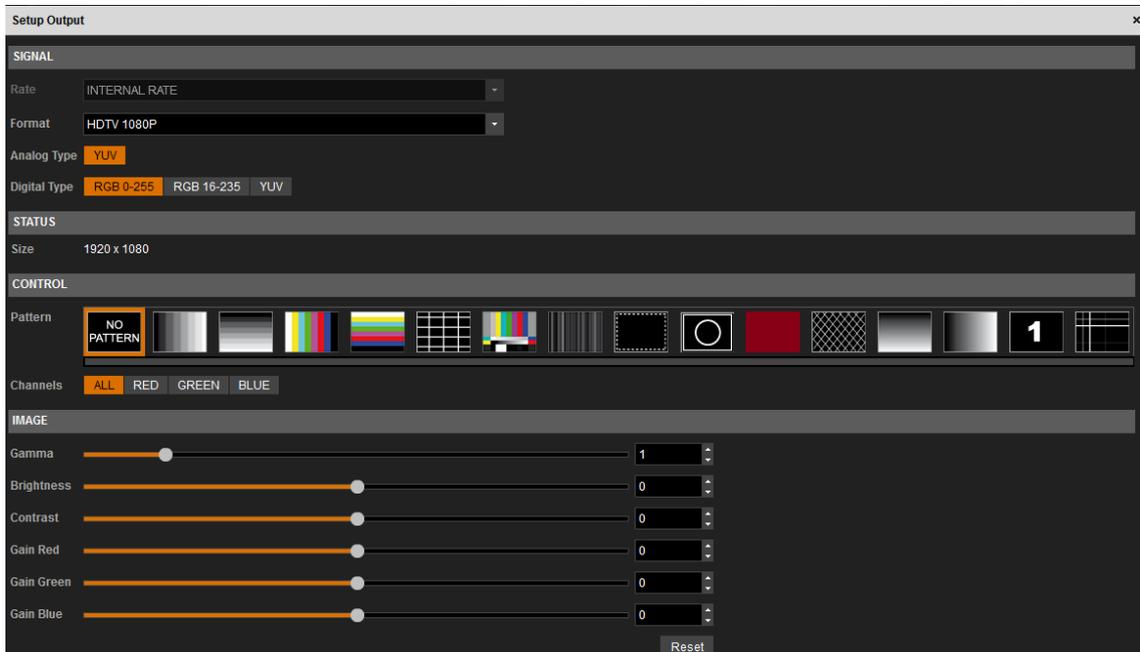
Products	NXT0802 / NXT1604 / SMX12x4 ASC1602 / ASC1602-4K / ASC3204 / ASC3204-4K / ASC4806 / ASC4806-4K / ASC4806-4K-PL LOE016 / LOE016-4K / LOE032 / LOE032-4K / LOE048 / LOE048-4K	
Date	NOVEMBER 9nd, 2015	
Version	3.02.30	Web RCS : V3.02.12

The version(s) indicated here above has (have) been tested and validated by the Technical Support Department.

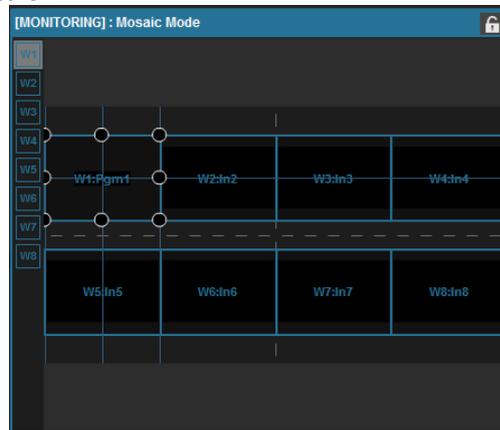
► **Technical Notes:**

Evolutions

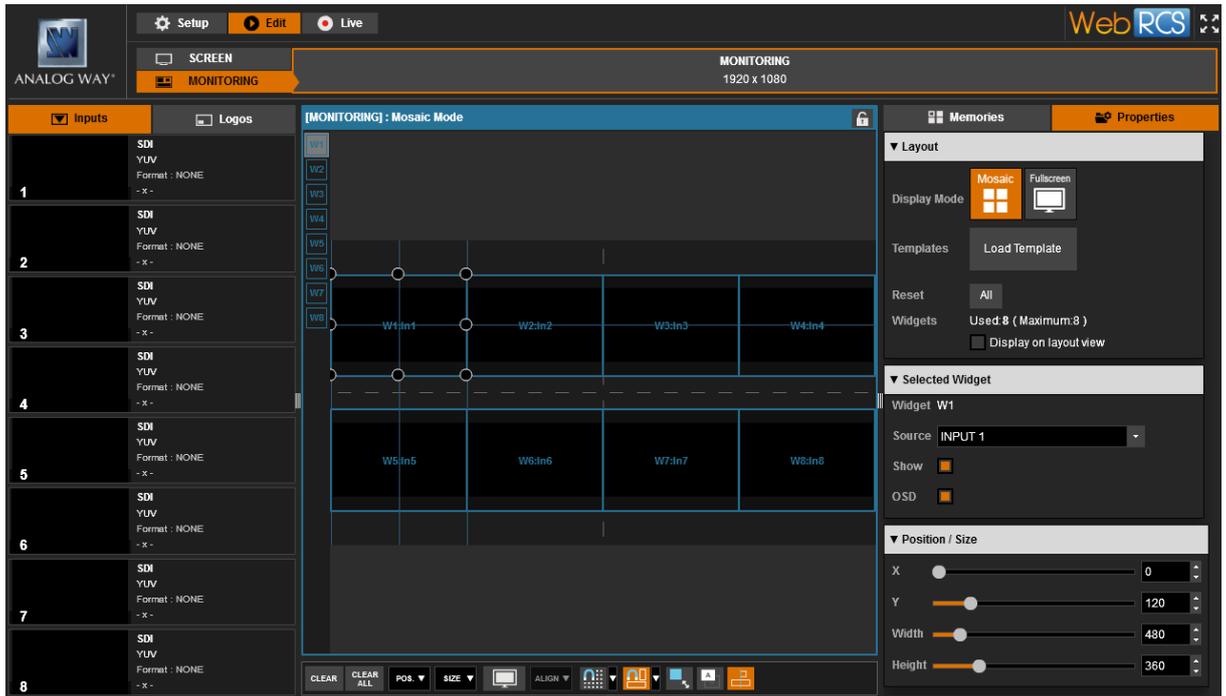
- **New output color adjustments:** new settings were implemented to adjust the output color: Brightness, Contrast, Red Gain, Green Gain and Blue Gain. These settings are independent for each output and a Reset button was added.



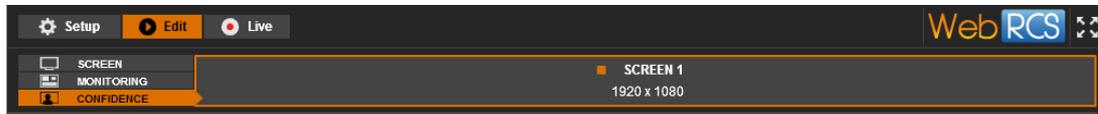
- **Monitoring Screen Widget edge to edge positioning:** the snap to other widgets borders is now possible so it is much easier to align them together.



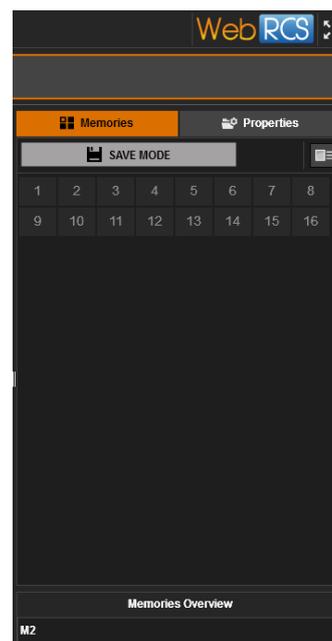
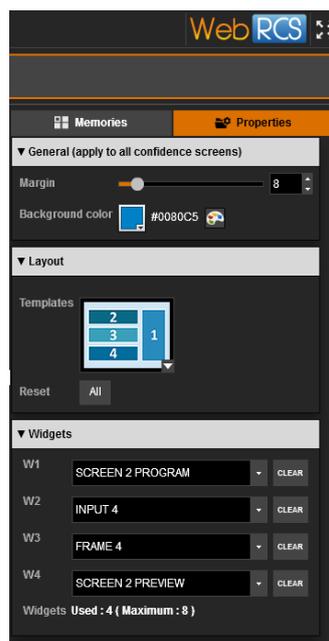
- **New edition tools for the Monitoring/Preview edition panel:** these tools (alignment, snap to grid/layer ...) make easier the design of layouts for the monitoring output.



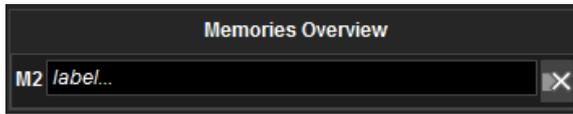
- **New Confidence edition panel:** The Confidence screens are not managed in the SETUP section anymore (except indicating that a screen is used as a confidence monitor). They are now managed as the monitoring output in the EDIT and LIVE sections:



An edition panel is available on the right side. This panel contains two tabs : one for the properties and one for the memories (for further details about memories, please read the next item)

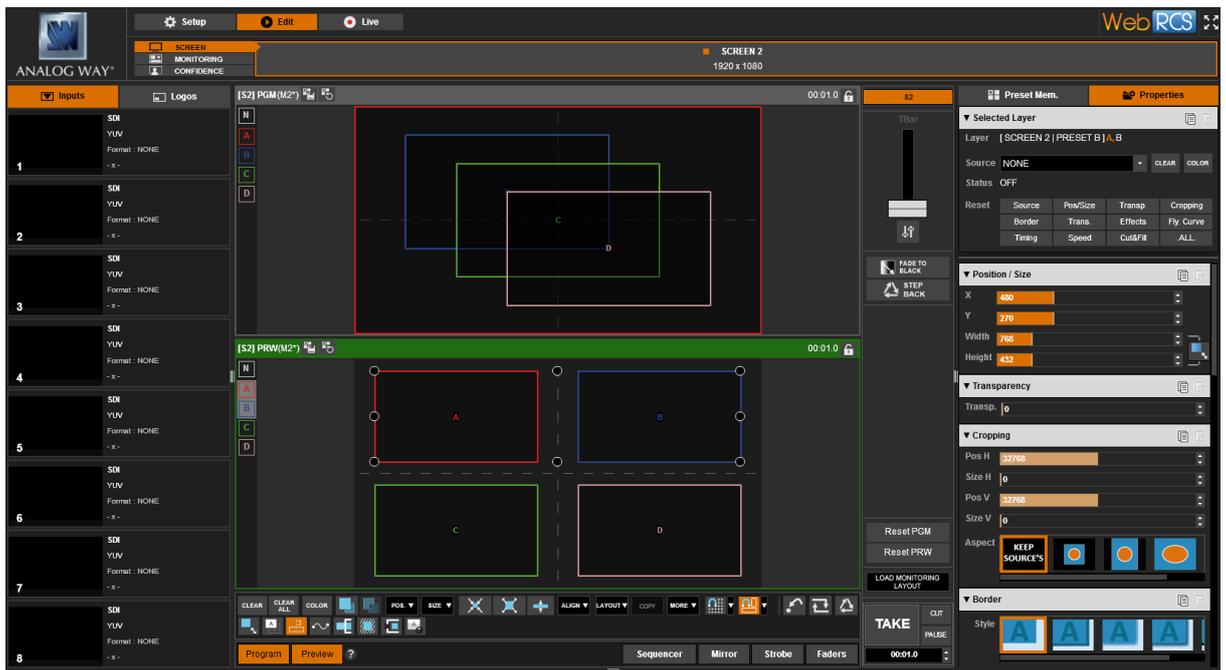


- **Confidence Memories:** up to 16 memories are available to store the configuration of the confidence screens. Saving a configuration can be achieved by clicking the SAVE MODE button and then selecting the memory slot. Each memory can be labelled so the operator easily remembers the content of each memory.

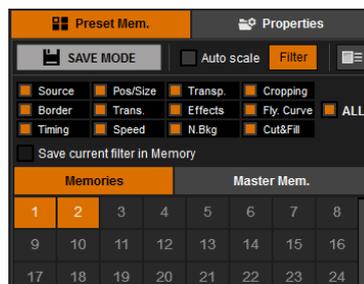


These memories can also be recalled clicking on the memory slot.

- **Multi-Layer selection to allow the change of layer parameters:** It is now possible to modify the properties of a multi-layer selection. Select a layer and then add a new layer by SHIFT+clicking: the properties can be edited in the Properties tab for all the selected layers at the same time. Please note that some properties like position will be set to the value of the firstly selected layer and then modified.



- **Wide resolutions carried on Single Link Custom Format:** When creating a wide custom format whose width is larger than 2048 pixels but whose pixel frequency is lower than 165MHz, the signal is now carried as a Single-Link DVI stream. Please note that the outputs using this format still require twice the number of resources as the format is wide.
- **Filters can be saved in a preset memory:** It is now possible to include a preset filter in the memory to recall specific preset elements only (all except native background). A checkbox with the label "Save current filter in Memory" enables/disables this feature.



Bug Fixes

- Overall optimization of locking time on the framelock signal: the locking time of the framelock signal was significantly reduced.
- Locking time optimization for HD-SDI input signals: locking time for 1080i signal on SDI may be too long and causing problem with inputs connected to a SDI matrix. It was dramatically reduced to a mean value of 3,5s. Please note that for SD-SDI and 3D-SDI, the mean locking time is about 1s.
- Cropping a 4K source with more than 50% freezes the layer containing this source: the cropping now has no impact on 4K source, even if the crop finder is close to the left/right edge or if the size is inferior to 1920.
- The Device downgrade is not reset by the Factory (Out of the box) reset: now when resetting a downgraded unit to its Out-Of-The-Box state, the unit retrieves its real type.
- Capturing a Single Frame with more than 1600 lines crashes the system: capturing a frame whose height is more important than 1600 lines (limit of 2560x1600 dual-link format) crashes the system.
- Unused outputs don't use unnecessary resources on the Monitoring Mosaic view.
- In the edition panel of the sequencer, the list of Frames and Logos now displays valid information
- Resetting the Effects doesn't disable the Smooth Move feature anymore.
- The Predefined Cropped setting is no longer modified when the Left cropping setting is adjusted.
- Layers B, D, F... are now masked on the Preview/Monitoring outputs when the Cut and Fill feature is enabled.



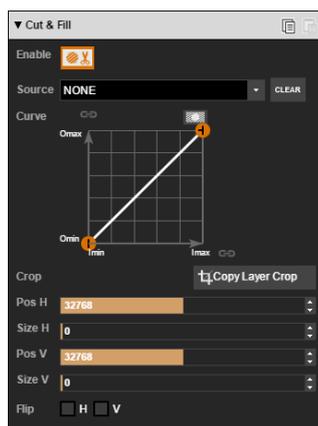
Products	NXT0802 / NXT1604 / SMX12x4 ASC1602 / ASC1602-4K / ASC3204 / ASC3204-4K / ASC4806 / ASC4806-4K / ASC4806-4K-PL LOE016 / LOE016-4K / LOE032 / LOE032-4K / LOE048 / LOE048-4K	
Date	SEPTEMBER 08 th , 2015	
Version	3.01.60	Web RCS : V3.01.28

The version(s) indicated here above has (have) been tested and validated by the Technical Support Department.

► **Technical Notes:**

Evolutions

- **New Layer Cut and Fill feature:** the Cut & Fill feature allows keying the content of a layer using an input or a still picture (frame or logo) as the alpha channel. Usually, the Cut content (the mask), is a grey level content: the darker the grey level, the more transparent the Fill content. If a colored content is used as Cut content, the Luma level of the Cut content is used to key the Fill content. As the Cut&Fill feature requires two layers (one for the Cut and one for the Fill), only layers A, C, E... can be cut.
 - To enable the Cut&Fill feature for a layer, go to the Edit/Live tab of the Web RCS and select a layer. Enable the feature in the Layers properties panel (on the right side of the Web RCS). A small area appears in the top right corner of the layer, indicating that the feature is activated.



- Then select the source for the Cut using the right side panel or just drag-n-dropping the source to the small area in the Layer. A snapshot of the Cut source appears in this area.
 - Others parameters such as cropping, flip and luma level thresholds are available.
 - This feature is based on layer parameters that are included in the preset memory: it means that these settings can be different from a preset to another one. For example, using a static frame as Cut content and playing with the thresholds allows creating dynamic transition effects.
- **Custom Output Formats:** Using one of the two available modes (CVT or full), operators can now create their own output format. This feature is very useful for LED wall applications and nonstandard industrial display applications.
 - To access the Custom Formats, go to the SETUP > OUTPUT section of the Web RCS



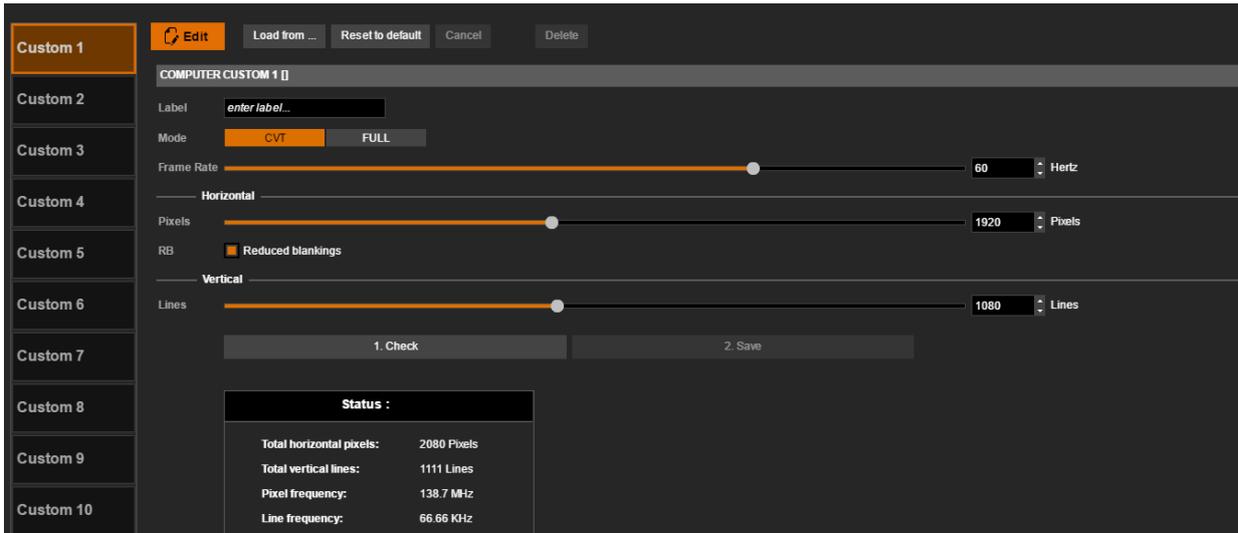
- Select the Custom Formats on the left side.



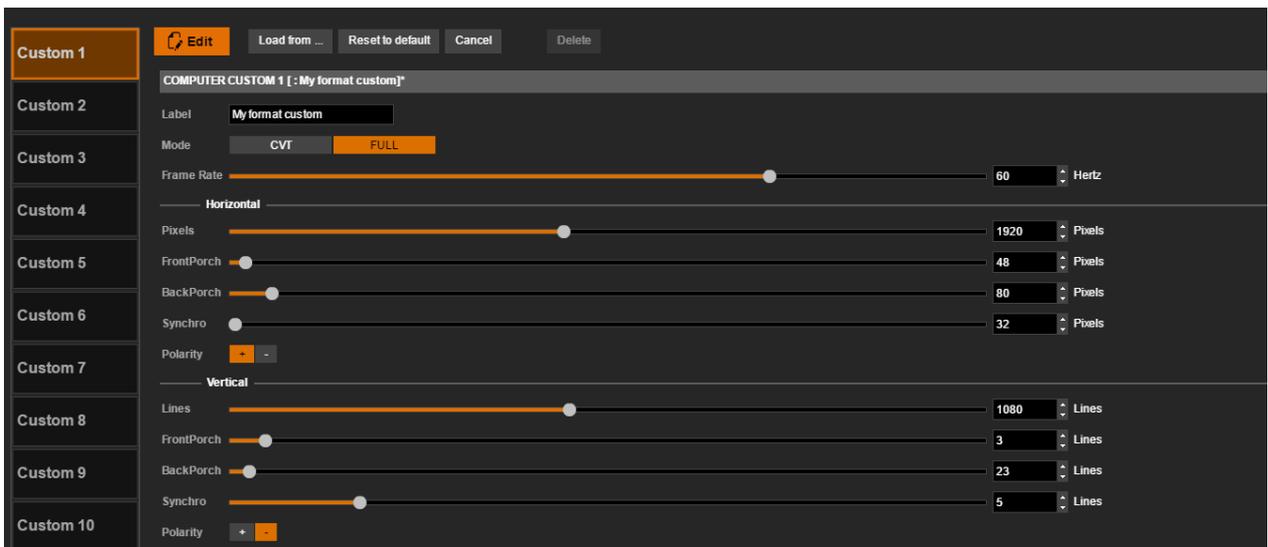
- LiveCore units offer 10 memories to store the user custom format. To modify one of the 10 formats, just select it and enter the Edit mode by click the dedicated button. Then choose the mode to create/modify the custom format



- In the **CVT mode**, the operator only has to set the width, height and rate of the format and to indicate if this format has reduced blanking intervals. The LiveCore unit will compute the format parameters according to CVT 1.1 formulas.

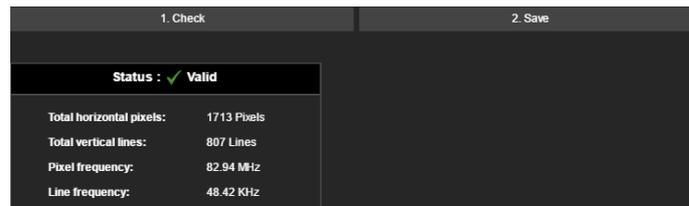


- In the **Full mode**, the operator can access and set all the parameters of the format (H&V front porch, H&V sync, H&V back porch, width height, sync polarity...)



- Once the settings are achieved, the operator must check it to be sure that it fits with the unit capabilities (pixel frequency, line frequency...). If the format is valid, it can be saved.





- Additional actions can be achieved in the Edit mode of the Custom Formats



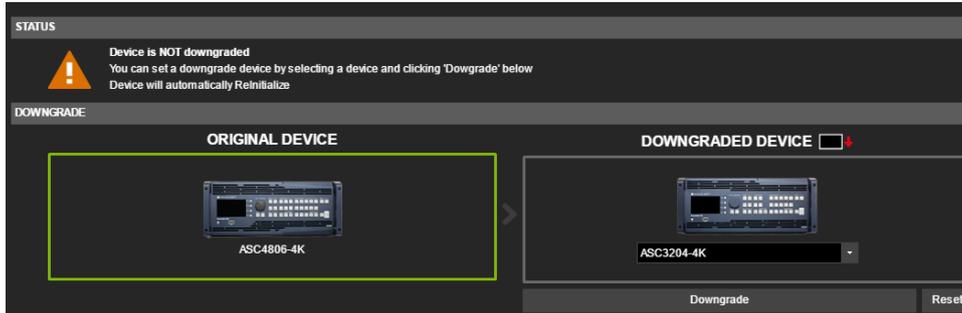
- **Load from:** pre-load the settings of a custom format with those of another memory.
 - **Reset to default:** reset all the setting to their default values
 - **Cancel:** quit the Edit mode without saving the changes.
 - **Delete:** delete all the setting of the memory slot and tag it as free (will not appear in the list of available output formats)
- When setting the format of an output, the custom formats appear in the list of the available formats only if their rate equals the Internal Rate of the unit.
- **4K Frames:** It is now possible to import or capture 4K frames. Just like for Dual frames, a 4K frame must be declared as 4K and requires two frame slots. A 4K frame can be assigned to frame slot #2 or #4. When using a 4K frame in a layer, the adjacent layer is disabled; only layer A, C, E... can be used.
- **Heterogeneous Link support (WebRCS only):** Using the Web RCS, it is now possible to link any kind of Ascenders together. Just like for a link between two similar units, the operator must to connect the cables between the two different units and to start the Web RCS of the device that will be used as the master unit. The rules for the heterogeneous link are :
 - **The two units must have the same firmware version (at least 3.01.XYZ)**
 - 4K units can be linked to non-4K units
 - 4K Perspective Layers can be linked to non 4K non Perspective Layers units
 - No downgrade of the most powerful unit is necessary.
 - The limitations of the screens are linked to the output capabilities :
 - A screen containing several outputs with different number of layers will be limited to the capabilities of the weakest output. For example: linking an ASC4806 to an ASC3204, a screen made of 2 outputs coming from both units will be limited to 4 layers. However the remaining outputs of the ASC4806 still have 6 layers
 - A screen containing outputs supporting Perspective Layers and others without this feature can't be declared as Perspective Layers
 - Please note that the SmartMatriX Ultra (ref. SMX12x4) is not concerned and can only be linked to another SMX12x4.
- **Device temporary Downgrade (to be used with Vertige controller):** ASC4806, ASC3204 and NXT1604 can be downgraded to a lower model (This feature is not available for ASC1602, SMX12x4 and NXT0802). This feature can be useful to work with the Vertige controller that only supports assemblies with same type units.
 - To downgrade a LiveCore unit, go to the SETUP > CONTROL section of the Web RCS.



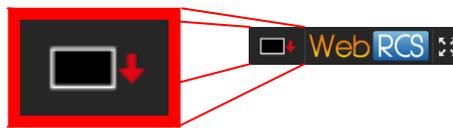
- Select Downgrade on the left side.



- Select the downgraded device to obtain. Click the Downgrade button and confirm to start the downgrade procedure. The device will reboot.



- Once the unit has rebooted, a small icon indicate in the top right border of the Web RCS that it works as a downgraded unit.



- To cancel the downgrade of a unit just go back to the Downgrade page, click the Reset button and confirm.
- **For Soft-Edge Blending purpose, the maximum horizontal covering size set to 2048px:** to fit with new 4K output format, the maximum horizontal size of the overlapping area is set to 2048 pixels
- **New output formats 3840x1080 and 4096x1080 (up to 60 Hz):** these formats are supported by the Dual-Link DVI output plugs of the LiveCore units. For devices with four outputs, these formats can be used to create 4K screens with Top-Bottom output configuration.

Bug fixes

- Perspective Layers didn't work properly when using rotated output
- An error message was displayed during a shutdown initiated from the front panel
- Soft-edge black level management was not correct for a 4K 4:2:0 output
- Soft-edge black zone was shifted 4 pixels to the right side
- The Image "Sharpness" setting of the inputs is now saved properly
- The locking time from HDTV output format was dramatically reduced
- A NTSC black burst connected to the Frame-lock input can be used a reference for the internal rate

Restrictions

None

Known issues

None



Products	NXT0802 - NXT1604 - SMX12x4 - ASC1602 - ASC3204 - ASC4806 - LOE016 - LOE032 - LOE048	
Date	JULY 15 th , 2015	
Version	3.00.105	Web RCS : V3.00.103

The version(s) indicated here above has (have) been tested and validated by the Technical Support Department.

► Technical Notes:

Evolutions

- **Abort of device synchronization (Associative modularity):** It is now possible to abort the synchronization between units from the Web RCS and the unit front panel.
 - For Web RCS, just click the button close to the Sync Status icon :



- From the front panel, go to the CONTROL menu and select the last item "Link/ Sync abort". A message will ask the operator to confirm the abort. Please note that this menu also works when two units are linked (Additive modularity)
- **General improvement of network performance:** this improvement increases the reliability of the connection with the VRC-300 console (Vertige™).

Bug fixes

- Improvement of reliability of the device synchronization (associative modularity) with the VRC-300 console : in some cases, the synchronization failed,
- Correction of 3G-SDI Level B decoding: fixed according to the SMPTE standard,
- The front panel dashboard works properly for NXT0802 and LOE48-PL,
- The SP_TAKE command sent on TPP port causes the re-initialization of the system.

Restrictions

- The Associative mode must be used with a Vertige™ controller only.

Known issues

- The Perspective Layers feature doesn't work properly when using rotated outputs.



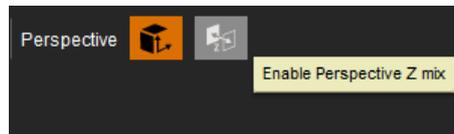
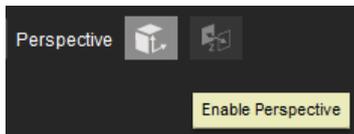
Products	NXT1604 -SMX12x4 – ASC1602 - ASC3204 - ASC4806
Date	MAY 26 th , 2015
Version	3.00.88

The version(s) indicated here above has (have) been tested and validated by the Technical Support Department.

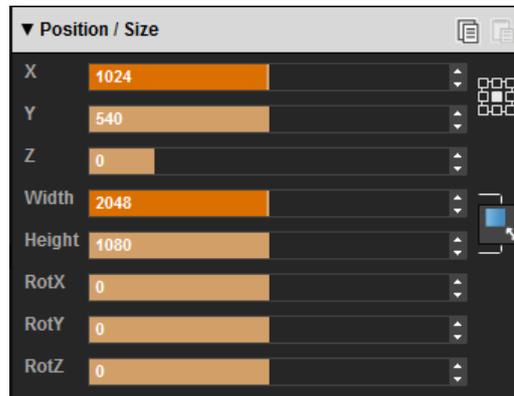
► **Technical Notes:**

Evolutions

- **New Perspective Layers feature:** only available for ASC4806 equipped with option OPT-4K-ASC4806-PL, this feature enables to handle layers in a 3D space. Using Advanced Layer Management, up to 12 perspective layers can be displayed on the same screen.
 - Each screen can be declared as Perspective Layers independently in the Setup>SetupAssistant>Screens menu. When declaring a screen as Perspective Layers, the operator can also enable/disable the Z-mixing
 - When enabled, all the layers are in the same space can be depth switched using the Z dimension.
 - When disabled, the layers order remains unchanged : A, B, C, D...Changing the Z dimension acts like zooming.



- Compared to standard 2D layer controls, specific layer settings are available
 - Z, Rot X, Rot Y, Rot Z
 - Anchor Point: each layer has an anchor point that is used as a reference to apply position and rotation settings. The operator can select among nine position for the anchor points. Please note that changing the anchor point of a layer will also change its position in the screen (settings applied with another reference)



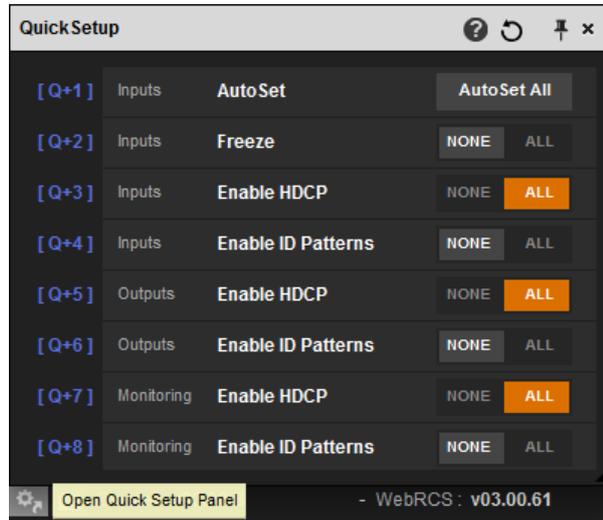
9 positions for the anchor points are available :

- Top: left, centered, right
- Middle : left, centered, right
- Bottom : left, centered, right

- Predefined 3D Layouts are available as in 2D mode :



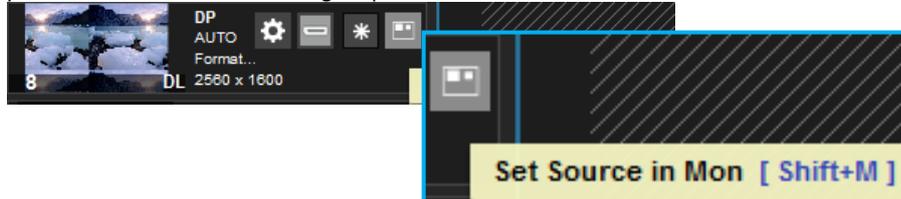
- Web RCS :
 - **A new Quick setup panel gives direct access to global functions** : enable /disable HDCP on inputs/outputs, display ID Pattern, input auto-set.



- **The display of confirmation messages is modified.** The former ergonomics displayed the message at the center of the display and locked the entire screen until the action was confirmed. Now when clicking a button for an action needing confirmation, the button starts blinking and a small pop up window is displayed centered at the bottom of the Web RCS. Simply click again the button (not the pop-up window) to confirm the action. Example : when resetting the Program in the Edit/Live modes the following message is displayed :



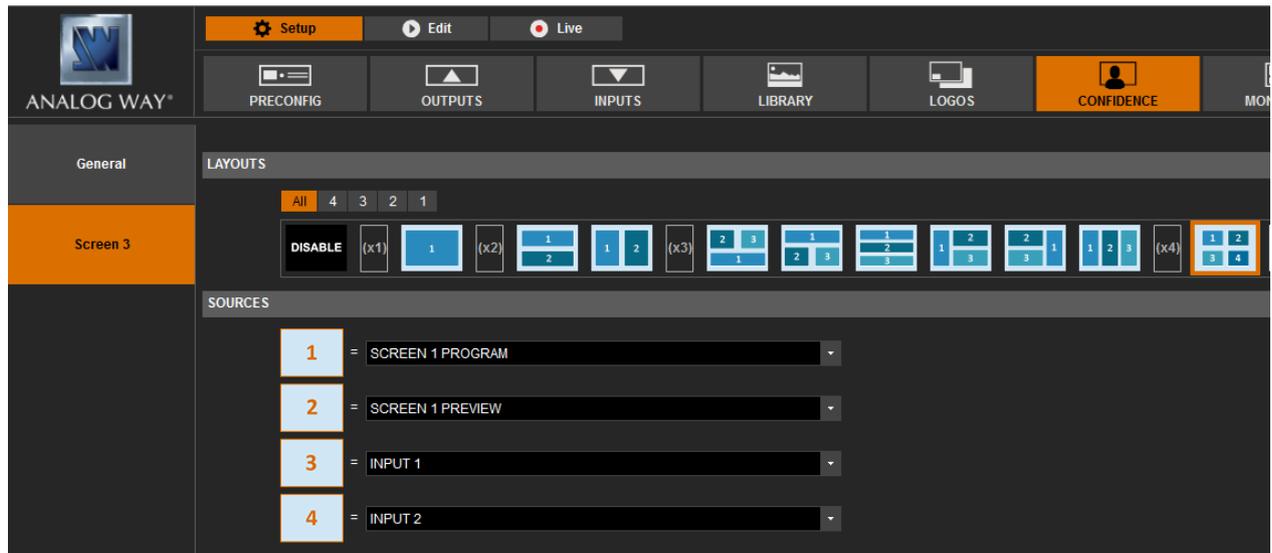
- In the Edit/Live modes, a button is added to sources (inputs, frames and logos) so they can be directly displayed full screen on the Monitoring output. A dedicated shortcut is also available.



- In the Edit/Live modes, **tallies are added to sources** (inputs, frames and logos) so the operator knows if they are display on the Program (Red), the Preview (Green) or both (Red and Green).



- **Preview screens can be displayed on screens declared as confidence monitors** (clean preview only). Please note that preview overlay can't be displayed.



- **Two new formats are supported to create 4K screens with two side by side outputs.** These formats are 1920 x 2160 and 2048 x 2160. They can be used at 30Hz and 60Hz. Please note that at 60 Hz, the input or output must be configured as Dual-Link.

Bug fixes

- Correction of Native Background management for dual sources (Dual input on Screen 2x1): the correct half of the input is assigned to each output.
- Using the Web RCS, the T-bar is managed like Vertige T-bar on multiple screens.
- The input is captured properly when the Aspect In is applied.
- A layer containing a keyed input is now mixed properly according to its alpha content: before correction, transparent part of the keyed input tended to be darker than they should be.

Restrictions

- Native sources must have the same size as the outputs in Perspective Screen using Z-Mixing mode.
- Dual Link and 4K sources can't be used in Perspective Layers.
- If the internal rate is greater than 30Hz, 4K30Hz sources can't be used as native backgrounds in screens with Z-Mixing enabled.



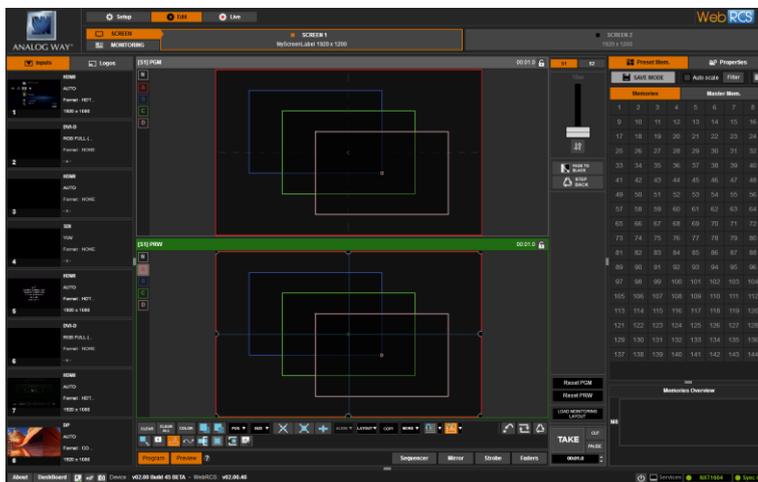
Products	NXT1604 -SMX12x4 – ASC1602 - ASC3204 - ASC4806
Date	MARCH 27 th , 2015
Version	2.00.46

The version(s) indicated here above has (have) been tested and validated by the Technical Support Department.

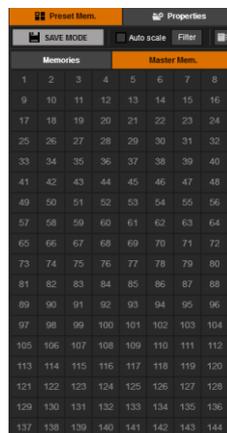
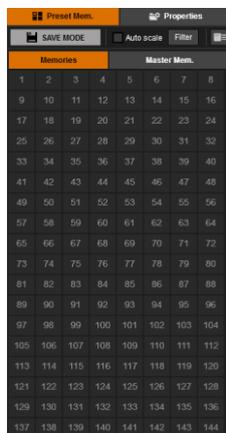
► **Technical Notes:**

Evolutions

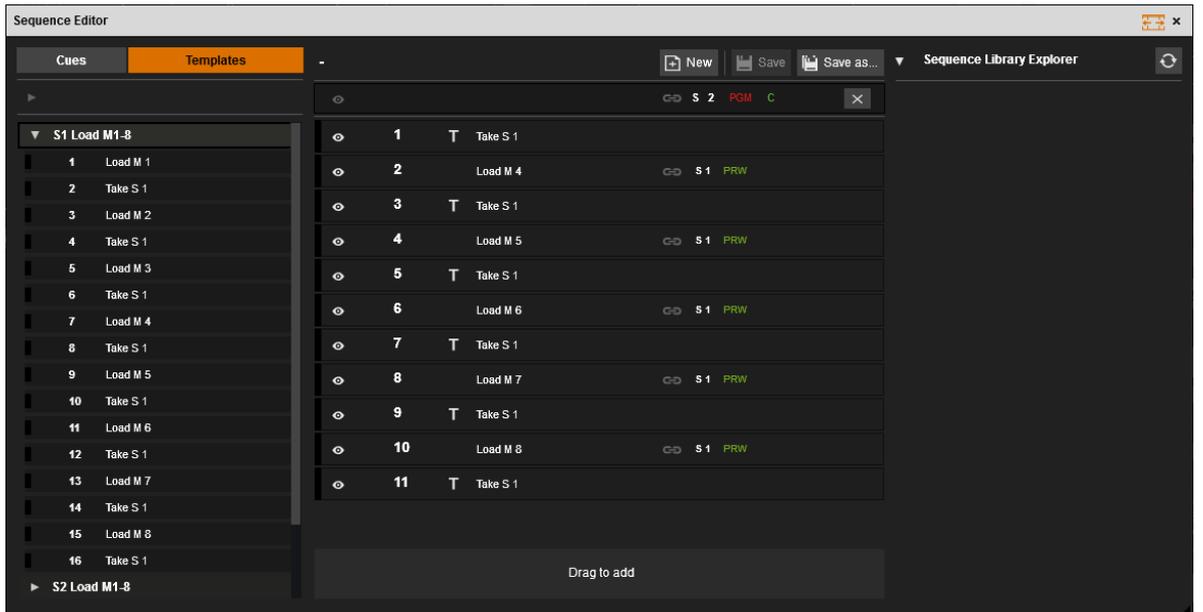
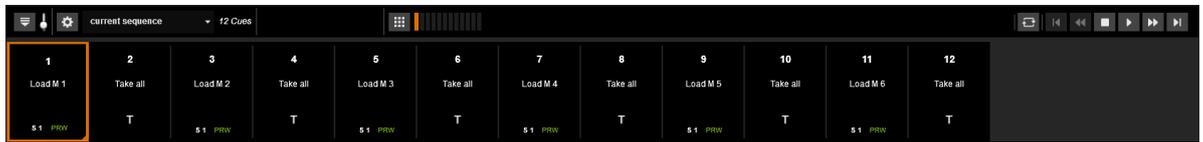
- **The Web RCS was redesigned to provide more efficiency and to enhance the user experience:**
 - It uses a **Flat Design** interface, much legible and much simple for the PC graphic board to draw. As a consequence, the interface is up to **30% more reactive** than before and the PC memory usage was dramatically improved. The switching between EDIT and LIVE tabs is now instantaneous.



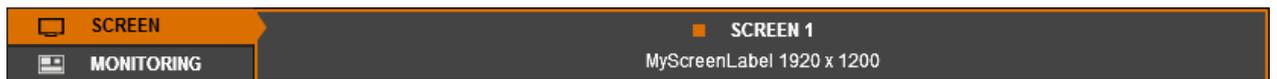
- The new design is also more compact and more adapted for smaller screen resolutions.
- Although they still have their own specificities, the EDIT and LIVE modes now share many features to provide more efficiency. For example, the Memories and Layers Managements have been unified. The EDIT mode displays one screen at a time, whereas the LIVE mode displays all the screens simultaneously.



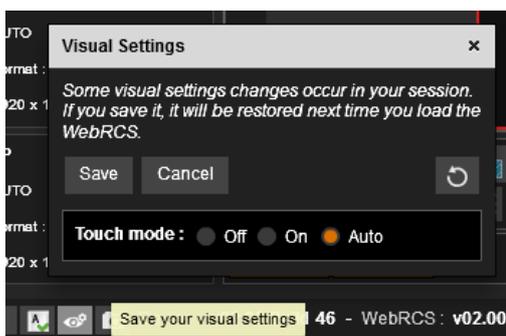
- **New Cue Sequencer:** this new version integrates a brand new cue sequencer with enhanced functionalities. It comes with a built-in editor to easily create and edit cue sequences as well as a new player to control the playback of a sequence. The number of cues in a sequence was increased to 128. Several types of cues are available (mostly based on Web RCS shortcuts). For a better readability and understanding, cues can be grouped into cue stacks (up to ten).



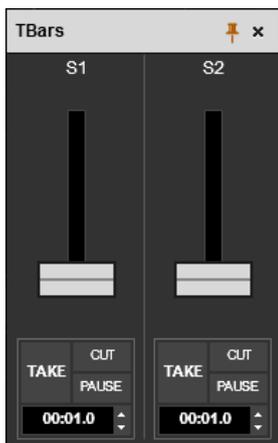
- **In the EDIT and LIVE tabs, the screen label is displayed in the selection button:** the screen label, entered in the SETUP>PRECONFIG>SCREEN menu, is available in the EDIT and LIVE tabs.



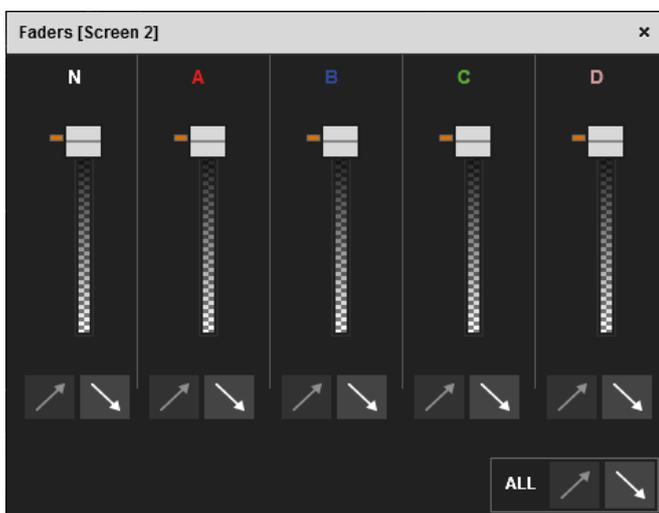
- **The Web RCS environment is managed with the new Visual Settings feature:**
 - It is now possible to save the visual setting: "Save" saves the Visual Settings, "Cancel" reloads the latest saved configuration and "Reset" sets the settings to the default values.
 - The Web RCS can be finger-operated with touchscreen devices. Some user interface elements were adapted to best suit the touchscreen interface.



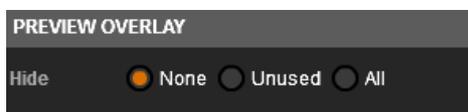
- **The new T-bars panel is pinnable:** it remains opened as long as the operator needs performs.



- **The Faders panel is now accessible in the LIVE tab.**



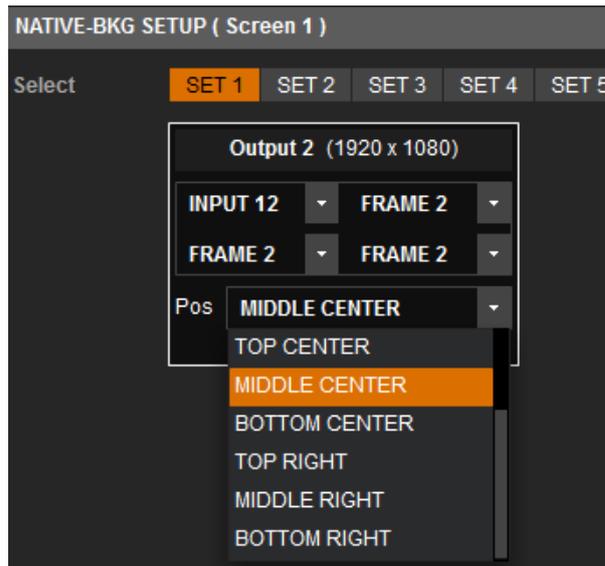
- **The LiveCore™ unit equipped with the 4K option (except NeXtage 16 – ref.NXT1604) can deliver 4K content at 60Hz on a single HDMI cable using the 4:2:0 chromaticity sub-sampling:** for further information about 4K, please read the white paper dedicated to 4K, available on our website.
- **A 4K 30Hz input format can now be used with an internal rate above 30Hz:** this limitation is over. It is now possible to use a 4K30p signal with a 60Hz internal rate. For further information about 4K, please read the white paper dedicated to 4K, available on our website.
- **The 3G-SDI inputs now supports 3G-SDI level B sources:** mainly used in broadcast applications, the 3G-SDI level B standard is now supported by LiveCore™ SDI inputs.
- **New control to remove the layer frames on Monitoring/Preview Output (Clean Preview):** in the SETUP>MONITORING menu, it is possible to partially or totally remove the layer frame on the Monitoring/Preview Output: the operator can display a Clean Preview.



- **Reset Image Settings feature is now accessible through a button in the input settings panel:** it is possible to reset the Image Settings of an input directly from its setting panel.



- **Better Native Background management for screen using 4K outputs:** the position of the frame/input can be adjusted.



Bug fixes

- **Bursts of T-bar modifications using TPP protocol may reboot the device:** sending too many T-Bars values with the Third Party protocol may reboot the LiveCore™ unit.
- **When linking two units, Dual Frames are not displayed correctly on the monitoring output of the slave device:** this problem was caused by a bad communication between the master unit and the slave unit.
- **When linking two units, the layer movements on the outputs of the slave device are not synchronized with those on the outputs of the master unit:** this problem was caused by a bad communication between the master unit and the slave unit.
- **When linking two units, in the Setting panel of the outputs #6 and #8, the Output Digital Mode control (HDMI/DVI) has no effect on the Slave output:** this problem was caused by a bad communication between the master unit and the slave unit.
- **Sometimes, when the device rate is frame-locked to an input, the outputs may not deliver any signal:** when both the reference input format and the output format were HDTV, the frame-lock process didn't work and the output didn't deliver any signal.
- **Frame-locking the device internal rate to a 4K 30Hz input doesn't work:** The reference 4K 30Hz input signal was described as invalid.

- **The input EDID preferred format list is not properly filled depending of the input plug type (Dual, 4K compliant ...):** some input formats were proposed as EDID preferred format for a plug in spite of the fact this plug couldn't support them.
- **Input RGB computer signals are not recognized and centered properly:** due to bad analysis of the composite sync, the RGB (SOG) signals were not detected properly and the active area was not centered properly because of a blanking shift.
- **The front panel HMI may send commands on the Program instead of Preview:** A bad analysis of the internal T-bar position applies changes to the Program instead of the Preview.
- **The SETUP>BLENDING page is not updated according to output position changes in the screen:** when changing the position of an output in the screen (SETUP>PRECONFIG>SCREENS), the blending page should be updated accordingly.
- **An "Invalid output format" warning is raised on the Web RCS although this output is disabled:** a disabled output shouldn't generate a warning message.
- **A nasty seam column appears when cropping a dual frame:** when cropping a dual frame in the SETUP> LOGO> FRAMEx>CROPPING menu, a scratched content appeared.
- **On the EDIT/LIVE>MONITORING page, the number of displayed resources is not refreshed properly when the widget source is modified:** depending of the source assigned to the widget, the number of used resources should be updated.
- **Dual inputs are not handled properly when they are unplugged:** sometimes it is not possible to recover the input.
- **The content displayed by analog video outputs is cropped:** in spite of the fact the output format was generated properly, the content was cropped (one line missing at the bottom, and a few pixel column on the right side). The content was displayed properly on the digital output.
- **On the Web RCS, the layer content is not refreshed properly when the logo/frame resource is empty:** the output layer was updated properly, but the Web RCS preview snapshot of the former source was still present. Corrected.
- **On the Web RCS, when switching selection from Program to Preview, the Layer status related controls are not refreshed:** some properties in the right side panel are not updated properly.
- **It should not be possible to activate the Dual button when uploading an image as a logo:** the dual property should only be available for frames.
- **In the SETUP>PRECONFIG>SCREENS menu, dropping an output over itself on the Unused Outputs section causes the output to disappear:** this was an HMI bug (workarounds were: coming back and forth to the menu or simply restarting the Web RCS).
- **In the screen configuration, "Load template" doesn't work if the outputs are in the Unused Outputs area:** loading a template was not working as the outputs in the Unused Output section were not assigned to the screens.

Restrictions

- **4K outputs cannot be rotated.**



- **2048x1152 output format cannot be rotated.**
- **No 4K frame available to be used with 4K 30Hz 4:4:4 output:** Frames can only be used for 4K 60Hz 4:2:0 output: it requires the use of four 2K Frames.



Products	NXT1604 - SMX12x4 – ASC1602 - ASC3204 - ASC4806
Date	12 DEC 2014
Version	1.06.16

The version(s) indicated here above has (have) been tested and validated by the Technical Support Department.

► **Technical Notes:**

Evolutions

- **4K 30Hz input and output formats are supported by 4K devices:** when a LiveCore unit is equipped with its dedicated 4K option, it can support 4K 30Hz 4:4:4 source of the HDMI plugs of input #2,#6 and #10. Moreover, it can output 4K 30Hz 4:4:4 format on the DVI connectors of output #2 and #4. Please note that:
 - These output DVI connectors are HDMI compliant
 - When using either a 4K 30Hz input or output, the internal rate (and therefore the output rate) must be 30Hz. This limitation will be removed in the forthcoming updaters version 2.00.xx.

Bug fixes

- **Screens without protected content (HDCP) are still displayed with grey on a Confidence screen:** when displaying a confidence screen on a non-HDCP display, if a program mixed HDCP and non-HDCP contents, the program was totally greyed. This is now corrected: only layers with HDCP content are greyed.
- **No dual link output format available on slave monitoring output:** when linking to LiveCore units together, it was not possible to select a dual-link format on the monitoring output of the slave device.
- **Input Aspect ratio is not managed in a confidence screen:** the input aspect ratio was not applied when a source was displayed in a confidence monitor.
- **1920x1080p Input DisplayPort signal is sometimes seen as a 3840x1080p signal:** 1080p formats were sometimes not detected properly by the DisplayPort inputs. This may cause a wrong detection status “Unknown format 3840x1080p” and the content may not be displayed.



Products	NXT1604 - SMX12x4 - ASC3204 - ASC4806
Date	28 OCT 2014
Version	1.05.64

The version(s) indicated here above has (have) been tested and validated by the Technical Support Department.

► **Technical Notes:**

Evolutions

- Input capture
- Dual-size Frame (4.8Mpx)
- Customizable Shortcuts
- New Preset effects (B&W, Negative, Sepia and, Solarize)
- Factory Reset (Out of the Box) + Default Value
- Snap to Grid and Snap to Border for WebRCS Edit panel
- Extended screen with up to 16 outputs (Vertige only)
- WebRCS Warning pop-up on Vertige connection,
- New COMPUTER 2560x1080 Output format
- Analog SDTV PAL and NTSC on the monitoring output
- Updater option [force] and [clean] inserted in the package file name
- About panel displays the Bios version

Bug fixes

- Enhanced edge processing for multiple outputs screen and dual-head/dual link sources
- User can drop Output in "Unused Outputs" area (WebRCS)
- Revised output format timings
- Revised monitoring output analog signal type management
- Better lock on follow input and framelock
- Auto-reboot in case of "Syncing bridge" error during start-up
- Correction of abnormal embedded CPU latency

