

Release 4.1

Improvements

Release 4.1 is a re-build of release 4.0.0 due to a random reboot issue

- Issue 119106: X50 Spontaneous Rebooting Issue

This note also introduces a Windows Presentation Foundation (WPF) client application as a replacement to Silverlight for remote control of X50.

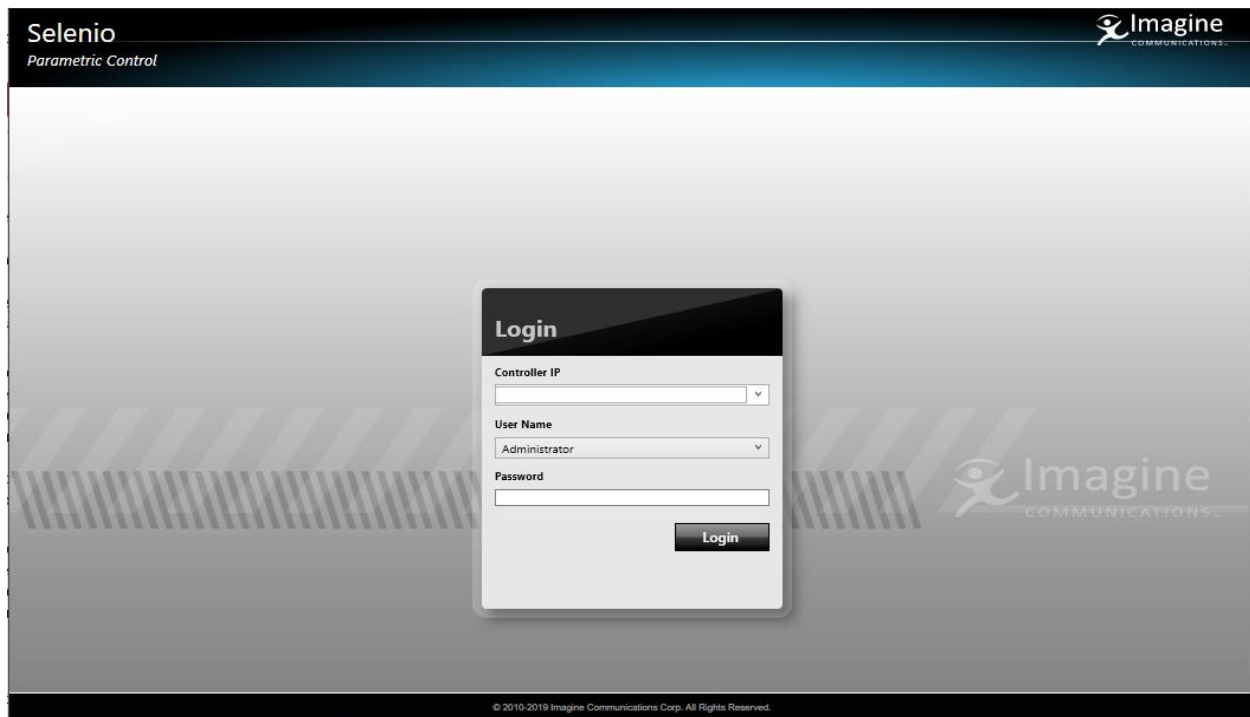
To access the client, follow these steps:

1. Download the file Selenio_Parametric_Control_1.2.0.exe.
2. Double-click the file to launch the installer.
3. An InstallShield Wizard launches.
4. Follow the instructions that appear on the screen.
5. When installation is complete, click **Finish**.

Installation is complete.

To launch the Selenio Controller Desktop App:

1. From the **Start** menu, enter **Selenio** in the **Find** field.
 2. From the Programs portion of the screen, select **Selenio Parametric Control 1.2.0**.
- A screen similar to the following appears:



3. Enter the IP address of the X50 device in the Controller IP field.
4. Select a User Name from the menu, enter the password associated with that user, and click **Login**.

The Selenio Controller Desktop App functionality is the same as documented for the Silverlight application.

Note: The Selenio Parametric Control application is for X50 use ONLY. After install, you can rename it to something more intuitive such as "Selenio X50" in Windows (requires administrative privileges).

Known Limitations

- PROC-188: The font size in the X50 WPF GUI is smaller compared to the Silverlight GUI.
- When switching SDI1 from 1080i/59 and or to SD-525, CC 608 may not be displayed
- If upgrading the X50 from version v 3.0 or older, ensure that the parameter "Advanced Controls" is set to ON before upgrading to v4.1. Failure to do so will result in advanced parameters remaining hidden until a factory recall and reboot is performed. There is no longer a parameter called Advanced Controls as they are on at all times with the current code version.

Release 4.0.0 Summary

Selenio X50™ release 4.0.0 is a major code update.

A note about the Rules Engine (Parameter Control Scripts and Custom GPI scripts):

There may be new parameters added in this code release. If a parameter control script or custom GPI script has been used for a workaround until new parameters are added and this code update is applied, the module should be setup using the latest code with the new parameters. The parameter control script or customer GPI scripts must be rewritten to remove the workaround, and retested.

Features & Enhancements

- Advanced menu is always displayed
- Rules Engine enhancement - add Custom GPI Scripts (*This feature is called Custom GPI Scripts-RGC*)
- DBN Ignore default value update
- CWDM SFPs
- A parameter for auto routing active video input
- IP address configuration from GUI
- AFD/Rules Engine enhancement

Improvements & Bug Fixes

- Issue 94873: H-Phase is now consistent after reboot
- Issue 40502: Logo is displayed upon recalling a preset
- Issue 71362: AAP module now can recover from a mute status
- Issue 73825: Fiber In LED no longer displays false flash with a -18dBm source
- Issue 88365: Audio Preset is properly restored even after a power cycle
- Issue 90648: Adjusted gain is now reflected on a WFM after a reboot
- Issue 101368: "Fill Color" for background can be changed to other colors, not limited to black
- Issue 101475: X/Y position for logo is correctly restored upon preset load
- Issue 101476: Default value for logo insertion is set to "Disabled" after factory recall
- Issue 101773: Local preset load/save now works properly on the very first operation of a unit
- Issue 101826: All presets listed load and save correctly
- Issue 101962: GPI Out State implementation is same as X100
- Issue 101963: GPI Out behaves correctly
- Issue 101966: Custom Input GPI works properly
- Issue 101998: Operating in delay mode and Proc Bypass mode does not display distorted video and audio
- Issue 40312: Local presets are mapped as a parameter
- Issue 40438: When switching between two 720p/50 sources in Sync mode in 50Hz operation, there is no longer 1 second of frozen video frames
- Issue 56336: Logo display enable/disable works properly

-
- Issue 62592: When composite analog is selected as input video source, blanking level of VBI area is at correct level
 - Issue 73609: Analog/AES audio feedback is stable
 - Issue 74490: Dynamic Control for Dolby D encoder works correctly
 - Issue 82335: Logo does not display jagged edges
 - Issue 85899: TBC mode does not have a 10 sample shift
 - Issue 88743: FTP does not allow anonymous login
 - Issue 88977: Upon power up, video does not display green output
 - Issue 90706: X50 can decode Dolby-E on upconverted Nexio clips
 - Issue 90923: When input is HD 1080i/50 and output is 625/50, burst of glitches does not happen
 - Issue 91216: Multimerge/UpMix default values are updated
 - Issue 91223: Parameter Control Script can use more than 10 parameters
 - Issue 95122: FPGA Core Overheat false alarm no longer happens
 - Issue 95567: Telnet through port 230 does not allow root access
 - Issue 96100: Audio routing is restored after reboot
 - Issue 96206: Audio setting is saved after power recycle
 - Issue 68896: LFE lowpass filter setting dependency for Dolby Digital and Dolby E encoder behaves correctly

Release 3.1.1 Summary

Selenio X50™ release 3.1.1 is the first code release at product launch.

Features & Enhancements

- Silverlight GUI and front panel now display new company logo

Improvements & Bug Fixes

- Audio Card LED now lights up properly when AAP module is installed (PR99406)

Known Limitations

- All user settings will be reset to factory default values when downgrading to any firmware version before 3.0
- When output standard is 625/50 and input standard is 1080i/50, there can be video glitches within the first 10-minute of power up
- Analog audio input gain is not saved after a power cycle
- When in TBC mode, composite input has 10 samples shift
- Audio preset is not automatically reloaded after a power cycle
- If using Multimerge+LC, AAP module does not recover from mute after embedded Dolby is switched in to the unit and then switched out

Release 3.0

Features & Enhancements

- I-WINGS with video input capability
- Pass through of one user defined (DID/SDID) VANC data type when converting video
- Advanced Audio Processing (AAP): Dolby Digital encoding & decoding, Dolby E encoding & decoding and DTS Neural software license key options added (requires X50OPT-ADVAUD hardware submodule)
- 3DTV processing from left/right eye to frame compatible side/side or top/bottom
- 3DTV processing from frame compatible side/side or top/bottom to left/right eye
- Green power saving (by turning off unused inputs and outputs)
- Support for incorrect V-bit in video at input
- Added audio V-bit overwrite support
- Added audio output delay for each channel
- Automatic detection of non-PCM audio streams without the proper C channel status bit set (includes channel status bit correction)
- Added audio deembedder ability to ignore checksum, ECC and parity errors
- Added ability to route audio metadata to serial or VANC output from a Dolby E decoder (requires X50OPT-ADVAUD hardware submodule and X50OPT-SK-DED software license key)
- HTTP UI is now using a Silverlight-based interface (Administrator and operator logins are now supported)
- User presets can be saved using the local control panel
- User presets can be saved on the SD memory card
- X50 supports Gratuitous ARP which is necessary for CISCO L3 switch
- Add control to disable HDMI EDID checking (many monitors don't have all supported formats written to the EDID).
- HDMI supports 525/625 and 1080P output
- X50 supported SFP types have changed
- List of supported SFP can be found in the manual
- SFP information displayed in menu
- SD Wide Blanking parameter when up converting (BBC requirement)
- Polarity was added to GPI input and output
- "Home page naming" for machine / device name and IP address
- Sleep mode for display
- Mask line 21 CC (NTSC) when up converting
- Parameter control scripts (Rules Engine)
- Proc amp and color corrector capability in bypass scalar mode
- VPID disable parameter
- Add power supply alarm for remote monitoring
- Local control panel disable
- Change mv to % for color corrector
- Black detection added

Improvements & Bug Fixes

- Issue 63165: SDI output format is not always saved if set to "Proc Bypass"
- Issue 63965: Frequent HD-SDI output problem when input source is analog component (1080/59.94i)
- Issue 40307: X50 does not detect embedded audio (Added audio deembedder ability to ignore checksum, ECC and parity errors)
- Issue 40467: CC/TT Embed On/Off parameter fixed
- Issue 40265: Frame accurate AFD
- Issue 40256: X50 GPI setting do not stick to Scalar 1 aspect ratio settings when switching input video standard
- Issue 40389: X50 would not show OP-47 data on line 334(field 2) in down convert mode.
- Issue 40395: Advance Parameter mode required for CC detection & processing - fixed
- Fixed issue with external reference (when reference changes the system doesn't change the timing on the SDI outputs, a soft reboot or a power cycle is no longer required)

Release 2.1

Features & Enhancements

- Expanded & improved SD/MMC card support – up to 4GiB SD/SDHC
- Lightweight & robust new Ethernet driver

Improvements

- [PR56004] Expanded SD card support to include more manufacturers/capacities/speed grades
- [PR40497] Random hang addressed with new Ethernet driver
- Fix for panel menu display items failing to re-appear based on setting changes

Release 2.0

Features & Enhancements

- Added input audio gain controls
- Hot swapping of SD cards is now supported
- 3 Gb/s software key license included at no extra charge
- Web browser opens up to a new default

Improvements

- [PR138665] Fixed issue causing logos to sometimes disappear after a power cycle
- [PR143167] The "WSS" setting under the "ARC Preset" parameter is now properly saved
- [PR143806] H/V bandwidth controls are now working properly
- [PR144519] Fixed issue that could cause analog audio input routing assignments to be lost on power cycle

-
- [PR144667] Fixed issue that caused inconsistent parameter display behavior when certain inputs were applied
 - [PR145956, PR142703] Fixed parameter recall issues for web UI presets

Release 1.9

Improvements

- [PR146468] Fixed issue causing unit to produce green video output on power up

Release 1.8b95

Improvements

- [Fixed issue causing front panel indicator LED to be occasionally incorrect

Release 1.8

Features & Enhancements

- Polarity of GPI inputs and outputs is now configurable
- Low-latency line sync mode added
- Remote control of X75/X85 device name is supported from the X50 front panel
- Remote control by X75/X85 device name from X50 front panel is supported

Improvements

- Fix output video format parameter not saving between power cycles when set to “Follow Input” option

Release 1.7

Improvements

- The “SDI1 Out Format” and SDI2 Out Format” parameters now properly retain the “Follow Input” setting
- Fixed audio distortion issue on embedded outputs when a 3G source was taken from a Tek TG700
- X50 machine name is now displayed on X85/75 and X75-RCP units

Release 1.6

Features & Enhancements

- Added balanced/unbalanced selection for AES output
- Added logo enable and disable through GPI port
- Audio channel individual mute control of mono-channels

Improvements

- Fixed intermittent video glitches on SDI outputs that could be observed on certain units after power up from a cold condition
- Occasional system frozen on power-up problem resolved

Release 1.5

Features & Enhancements

- Added support for logo insertion on SDI1 output

Release 1.4

Features & Enhancements

- Added support for the following production formats:
 - 1080p-23.98, 1080psf-23.98
 - 1080p-24, 1080psf-24,
 - 1080p-25, 1080psf-25,
 - 1080p-29.97, 1080psf-29.97
 - 1080p-30, 1080psf-30
 - 1080i-60
- Added support for basic frame rate conversion
- Enhanced output routing configuration
- Added handling of audio already delayed with respect to video
- Added ability to assign a name to an individual X50 frame
- Added Dolby-E alignment and embedding
- Added 96KHz AES input capability

Improvements

- Fixed intermittent Close Captioning processing failures
- Fixed intermittent glitch on SDI2 output when changing the SDI1 output standard

Release 1.3

Features & Enhancements

- Initial release

FTP Upload Procedure

- After downloading the latest X50.zip file, please make a new folder on your local hard drive and unzip the file into the new folder.
Eg: C:\X50\FRAME
- Open up the DOS Command Prompt and go to the directory where the files were unzipped.
Eg: CD C:\X50\FRAME and press <ENTER> key.
- Ping the IP address of the unit to validate the network connection.
Eg: ping 192.168.100.250
Note: If the connection is valid, four successful reply messages should be received.
- Upload the files using the FTP upload tool called X50UPGRADE.EXE. Run the tool, enter the IP address of the X50 frame in the provided box and click the Upload button.
Note: Wait 5~10 minutes until all the files are uploaded.
- The unit will automatically reboot once the upgrade has completed.