Firmware Revision: **3.06.0005-b002**

The following notes provide the revision history and a list of known firmware issues in the current release. For more information, please call your Extron Application Engineer.

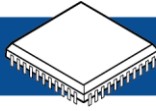**Updated:**   May 16, 2023

Extron Products Affected:

Model Name	
SMP 351	60-1324-01
SMP 351 3G-SDI	60-1324-02
SMP 351 400 GB SSD	60-1324-11
SMP 351 3G-SDI 400 GB SSD	60-1324-12
SMP 352 400 GB SSD	60-1634-11
SMP 352 3G-SDI 400 GB SSD	60-1634-12
SMP 352 80 GB SSD	60-1634-01

TECH NOTES

Transition to FlexOS™ All original scheduling and publishing features in the v2.xx firmware are also supported in the v3.05 or newer firmware. All SMP customers can upgrade units to FW v3.05 or newer version and utilize the FlexOS apps for scheduling and publishing integrations.

Firmware upload – After downloading the latest firmware from the SMP product page, the firmware upload is performed using the SMP 351 or SMP 352 internal webpage. Select the Configuration Tab → System Settings → Firmware and License Loader. In the Firmware dialog box, browse to the ".eff" firmware file on your PC and click the Upload button. The one-step process including upload, install and restart takes approximately two minutes and must not be interrupted.

Clear Browser Cache after firmware upload – Clearing the browser cache after upgrading firmware can ensure the latest internal webpages are displayed. On compatible browsers, press (Ctrl+Shift+Delete) to display the "Clear browsing data" or "Clear browsing history" window.

SMP Recording Track IDs have changed since firmware v2.05 – After firmware v2.05, Extron changed the order of SMP's recording tracks.
If you have video with audio:
- track 1: text track
- track 2: audio track
- track 3: video track
If you have video (no audio):
- track 1: text track
- track 2: video track
If you have audio only (no video):
- track 1: audio track

Streaming Settings are <u>not</u> preserved after firmware upgrade from firmware v2.03 or earlier and Configuration files are not compatible – The SMP streaming engine was upgraded on v2.05 and newer firmware and as a result, streaming settings on <u>RTSP and RTP Push</u> are reset after the firmware update from v2.03 or earlier. Please copy the streaming settings prior to upgrading the firmware. The streaming settings <u>cannot</u> be restored by box.cfg configuration file saved with v2.03 or earlier. The default stream method is <u>pull streaming</u>. To start a push stream, re-select Push streaming from WebUI to ensure the stream method selection is in sync after firmware update.
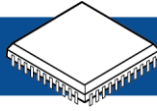
On firmware versions 2.02 and up the preview video in the AV Controls panel of the SMP uses an HTML5 player – The preview video is not supported by Microsoft Internet Explorer v.11, Microsoft Edge™, or Apple Safari.
To see a preview of the current stream, either use a different browser or open a stand-alone, third-party video player (such as VideoLAN™ open source VLC™ media player) and connect to the stream from the SMP.

Configuration files (box.cfg and ip.cfg) saved with firmware v2.05 or earlier are not compatible with new firmware – Old configuration files saved with v2.05 or earlier will not restore IP and Box settings correctly. Please copy all settings prior to upgrading firmware.

Audio Format Settings return to default after firmware upgrade from firmware v1.06 or earlier – Audio format settings under the Input/Output Settings will return to default settings after upgrading to firmware 2.00 or later. Please copy all settings prior to upgrading the firmware.

FTP/SFTP/CIFS Publish Settings are not preserved after firmware upgrade from SMP v2.05 or earlier – Default Recording Destination for FTP/SFTP/CIFS settings are not preserved after the firmware upgrade from v2.05 or earlier. Please copy the settings for FTP/SFTP/CIFS before firmware upgrade.
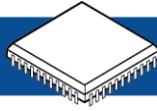
Factory Default SSL Certificate – The factory default SSL Certificate is a self-signed SSL Certificate, seen on products in the factory default state. Please contact your IT department to obtain a valid signed SSL Certificate.

CA Certificate Installer FlexOS App – The FlexOS App uploads the latest cacert.pem file (same version from https://curl.haxx.se/ca/cacert.pem) to the "cert" folder in the SMP. This CA certificate file is required to successfully establish SSL-protected connections with 3rd party scheduling, streaming, and publishing services.

Tips on Virtual Input Features:

1. The SMP does not decode and composite virtual inputs into a layout. The SMP does not create chapter marks or capture thumbnails on virtual input recordings.
2. The Secondary Recording option must be turned off to record virtual input recording files. E.g., Recording to Internal only and no external USB recording.
3. The Virtual Input audio sample rate must be 48kHz. Any other sample rates may result in A/V synchronization issue.
4. Virtual Input RTMP restreaming to other services (Microsoft Streams, YouTube, etc.) is only supported if the stream parameters meet that service's requirement.
5. Kaltura FlexOS App v1.03 and Panopto FlexOS App v1.04 are required to support uploading more than 2 files to these services.
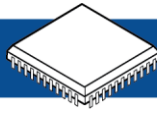
KNOWN ISSUES

The following is a list of known firmware issues found in Firmware Version 3.06.0005.

Virtual Input recording files include audio track - The virtual input recordings always include audio track, even when the incoming stream does not have audio packets.

Virtual Input RTP Re-streaming can be intermittent – When restreaming a virtual input using RTP, it is possible for the outgoing RTCP timestamps to be different than the data stream, and some stream destinations may reject the stream. We recommend using RTMP Re-streaming to avoid this potential issue.

Virtual Input RTP push Re-streaming known issues – The SMD v3.01 firmware does not accept TS/UDP and TS/RTP re-stream from the SMP virtual input. Also, TS/UDP and TS/RTP re-stream of virtual input does not have audio.

Streaming Preset on Virtual Input Re-stream page not saving – The Streaming Presets from the Configuration → Virtual Inputs Re-Stream page does not save stream settings for Virtual Inputs 1 and 2. The Stream Presets from Configuration → Encoding & Layouts page does save Stream Presets and those presets can then be recalled to Virtual Inputs 1 and 2.

Extron USA - Worldwide Headquarters

1025 E. Ball Road │ Anaheim, California 92805

800.633.9876 │ 714.491.1500 │ www.extron.com

FIRMWARE RELEASE HISTORY

Released Version: 3.06.0005-b002
                Affects: **Firmware Revision:** 3.05.0000 and prior
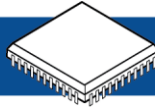   **Date:** Units shipped prior to May 18, 2023

The following is a list of changes and fixes in this release.

Updated Firmware Version - Beginning with this release, all firmware versions prior to 3.06.0005-b002 are retired.

Added Feature – Updated firmware to support new hardware revision – Version 3.06.0005-b002 is the minimum firmware required for products shipped with D07871 or newer. Please check product label at the back of the unit.

Updated – Adjusted Fan Speed for Better Environmental Conditions – Fan speed can be adjusted to support installations in quieter environments that do not require high cooling. By default, the fan on SMP runs at full (100%) speed and it can be reduced using SIS. If adjusted fan speed is required, please contact Extron Support for the command.

Fixed Issue – Input Source Image only showing Intermittently when using "Active Input in Fullscreen Layout" Option (originated in v3.02) – When the "Active Input in Full Screen" option in the Encoding & Layouts → Layout Presets section is enabled, the Channel A input video would only show intermittently if input sources were switched on and off. This issue has been resolved.

Version: 3.05.0000
　　　　　　　Affects:　　　　　　**Firmware Revision:** 3.04.0000
　　　　　　　　　　　　　　　　　　Date: NA

The following is a list of changes and fixes in this release.

This firmware requires the latest Panopto App v1.04 or Kaltura App v1.03. Please install the latest FlexOS Apps after firmware v3.05 update.

New – Added Virtual Input Password Authentication – The SMP firmware v3.05 now supports RTSP virtual input streams that requires password authentication.

New – Added SIS Command to Query All Events — Added new SIS command to query recorded and scheduled recordings. The new command information can be found in the SMP User Guide section *Remote Communication and Control*. This can be used with the "Delete Recording Event and Files by DB_ID" command to identify and delete recording events.

New – Added SIS Command for Virtual Input Configurations — Added new SIS commands to configure and query virtual input settings. The new command information can be found in the SMP User Guide section *Remote Communication and Control*.
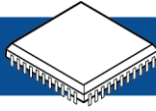
New – Added Toolbelt Utilities Tab Support – Added Toolbelt Utilities Tab support for features such as SSL Certificate and SNMP controls. *Note:* Must use Toolbelt v2.17 or later.

Updated – Recording Media Destination Settings When Switching from Dual Channel Mode to Composite – The SMP will now set the default Composite mode for Recording Destination to Internal and Secondary Auto. Previously the Composite mode default was Recording Destination to Internal only.
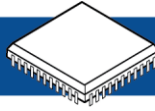
Updated – Authentication Failures Disabled Option Removed from Alarms Page – Auth Failures log entries are always displayed in the user logs and cannot be disabled. This option has been removed from the Alarms and Traps page on the WebUI.

Fixed Issue – Confidence and Channel B RTMP URL Apply Button Copies URL/Key Settings (originated in v3.04) – The Confidence and Channel B RTMP URL Apply Button Copies the URL and Name/Key Settings from Channel A. This issue has been resolved.

Fixed Issue – Panopto FlexOS App Might Disconnect from Server (originated in v3.03) – This issue was caused by the Panopto App crashing. This issue has been resolved.

Page 6
49-542-50 Rev. 3.06.0005

Extron USA - Worldwide Headquarters
1025 E. Ball Road │ Anaheim, California 92805
800.633.9876 │ 714.491.1500 │ www.extron.com

Fixed Issue – Confidence Layout Presets Show Vertical Line in Dual Channel Mode (originated in v3.00) – Intermittently, a vertical line can be visible when switching between Confidence Layout presets in Dual Channel mode. This issue has been resolved.

Extron USA - Worldwide Headquarters

1025 E. Ball Road | Anaheim, California 92805

800.633.9876 | 714.491.1500 | www.extron.com

Version: 3.04.0000
             Affects: **Firmware Revision:** 3.03.0001
                                     Date: NA

The following is a list of changes and fixes in this release.

This firmware requires the latest Panopto App v1.03 and Kaltura App v1.03. Please install the latest FlexOS Apps after firmware v3.04 update.
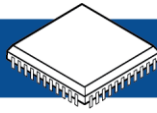
New – Added Virtual Input Support for Network-based Streaming Sources — Support virtual inputs including IP cameras and other encoded sources, enabling the ability to ingest up to two additional RTP/RTSP push/pull streams and record each stream into a separate file for up to 4 recordings.

New – Added Kaltura FlexOS App update to support Kaltura Live Dashboard and Virtual Input File Publish – Updated support in Kaltura FlexOS App v1.03 to add Live Dashboard and Virtual Input file publish.

New – Updated USB Driver for Security – Updated to the latest USB internal driver for security updates.

Fixed Issue – Input Window Zoomed in Within Layout (originated in v3.00) – Intermittently, a window may zoom in on an input source after switching inputs. This issue has been resolved.

Fixed Issue – Special Characters Not Working in RTMP URL/Key (originated in v3.00) – Certain special characters would not work in the RTMP URL/Key fields. This issue has been resolved.
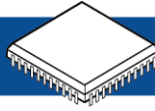
Version: 3.03.0001
Affects: **Firmware Revision:** 3.02.0000
Date: NA

The following is a list of changes and fixes in this release.

This firmware requires the latest Panopto App v1.03 and Kaltura App v1.02. Please also install the latest FlexOS Apps after firmware v3.03 update.

New – Added Support for Network Share Publish FlexOS App– Download the Network Share Publish FlexOS app for your publishing platform to your computer from the SMP product page on the Extron website. Scheduling and Publishing FlexOS apps can be installed in the Advanced Features → FlexOS Apps section.

Fixed Issue – Fail to Mount External Storage Larger Than 3TB (originated in v3.01) – The SMP would not mount external NTFS drive partitions that were larger than 3TB, or multiple partitions that combined were larger than 3TB. This issue has been resolved.

Extron USA - Worldwide Headquarters
1025 E. Ball Road │ Anaheim, California 92805
800.633.9876 │ 714.491.1500 │ www.extron.com

FIRMWARE RELEASE HISTORY

Version: 3.02.0000
    Affects: **Firmware Revision:** 3.01.0001
             Date: NA

The following is a list of changes and fixes in this release.

This firmware requires the latest Panopto App v1.03 and Kaltura App v1.02. Please also install the latest FlexOS Apps after firmware v3.02 update.

New – Toolbelt Integration – Integration with Toolbelt 2.10.0 or newer. Manage SMP 300 Series information, firmware, and users with Toolbelt.

New – 802.1X Authentication – SMP 300 Series now supports 802.1X authentication. Please refer to Technical Application Note *TechnicalAppNote_Streaming802.1X* on the Extron Website under the H.264 Streaming pages

New – Support for SMP 352 80GB SSD – Added support for the new SMP 300 series model, SMP 352 80GB SSD. Toolbelt support of this model will be added in an upcoming Toolbelt release.
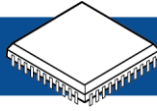
New – Added Auto-Reconnect for RTMP Streams – Added "Auto-Reconnect stream when disconnected" option to RTMP Push Streams. When enabled, the SMP attempts to reconnect to the selected RTMP destination five times if the initial connection cannot be established. The new option can be found in the Configuration → Encoding & Layouts → Encoding Presets.

New – Added File Transfer Schedule – Recording files can now be scheduled for transfer. The new option can be found in the
Scheduled Events → Publishing Settings → File Transfer Schedule.

Updated – Improved SFTP Transfer Speeds — Overall transfer speeds for uploading recordings to SFTP servers has been improved by the increased SFTP package size.

Fixed Issue – Audio Out of Sync with Video (originated in v3.01) – Audio would be out of sync with video during long recordings or recordings with many pauses. This issue has been resolved.

**Fixed Issue – WebUI May Become Inaccessible After Power Cycle (originated in
v2.02) –** The unit could become unresponsive if it was powered off for an extended period. This intermittent issue has been resolved.

Fixed Issue – Unable to Recall Confidence Layouts During Recording (originated in v2.07) – Recalling Confidence Layouts during a recording would fail. This issue has been resolved.

Fixed Issue – Disabling Confidence Streaming Would Gray Out Archive A RTMP Settings (originated in v2.14) – When all encoders are set to push RTMP, unchecking the "Streaming enabled" option on the confidence encoder results in grayed out RTMP settings for Archive A. This issue has been resolved.

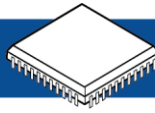**Fixed Issue –Daylight Saving Time Started One Hour Ahead of Schedule (originated in v2.11) –** Scheduled recordings were off by one hour before daylight saving time began. This issue has been resolved.

Fixed Issue – When Switching to Dual Channel Mode Before a Recording, SMP Could Intermittently Create Only One Recording (originated in v2.14) – The SMP could intermittently create a single channel recording instead of dual recordings when switching from Composite to Dual Channel Mode. This issue has been resolved.

Fixed Issue – The Left and Right Audio Output Channels Could be Intermittently Swapped (originated in v2.14) – The left and right audio channels could be swapped on the output after some time. This issue has been resolved.

Version: 3.01.0001

Affects: **Firmware Revision:** 3.00.0004
                          Date: NA

The following is a list of changes and fixes in this release.

New – Added 10 new factory default encoding presets for Panopto video quality settings – There are 10 new factory default encoding presets for Panopto quality settings numbered 33-42, which directly correlate to the Panopto scheduled recording quality settings. These new presets are read only and cannot be overwritten or removed.

New – Added IDR interval setting on WebUI – There is now an IDR interval adjustment in the Encoder Presets settings. The setting can be found under Configuration → Encoding & Layout → Video Encoding. Adjusting the IDR Interval can improve performance for some streaming services.

New – Added New "Publish Failure" Alarm – There is a new alarm notification for publishing failure for transferring recordings. The new alarm can be found in the Configuration → Alarms and Traps → Alarm Message List.

New – Added RTMPS streaming in Panopto scheduled events – RTMPS Push streaming to Panopto scheduled events is supported in this firmware update with the corresponding Enhanced Panopto Features LinkLicense.
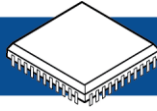
New – Added "delete folder after successful upload" option – Added option to delete a recording folder after successfully transferring recording. The setting can be found under the Scheduled Events → Recording Calendar → Active Profiles.

New – Added New View Temperature SIS – Added a new SIS command to view system temperature. The new command information can be found in the SMP User Guide section *Remote Communication and Control*.

Fixed Issue – Verbose Feedback does not match Command Feedback (originated in v2.07) – Certain feedback responses from Verbose and non-Verbose modes did not match. This issue has been resolved.

Fixed Issue – RCP Executive Mode Setting: "Beep when alarm is triggered" not saving (originated in v2.08) – The RCP setting, under Configuration → System Settings → Executive Mode, "Beep when alarm is triggered" would not save. This issue has been resolved.
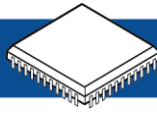
Fixed Issue – RTMP Backup URL can cause WebUI lockup (originated in v2.09) – Certain URL strings can cause the WebUI to lockup and stop responding. This issue has been resolved.

Fixed Issue – Secondary Recording Selection Available in Dual Channel Mode (originated in v2.07) – The Secondary recording would be available in the WebUI while in Dual Channel encoder mode. The option is no longer available when Dual Channel is selected.

Fixed Issue – Scheduled Panopto events would not show ingest failure when time settings are not in sync (originated in v3.00) – When the time settings on the SMP are incorrect (or otherwise out of sync with the Panopto sever), it was possible the ingested Panopto schedules would return times for events that occurred in the past and the SMP did not report a failure. This issue has been resolved.

Fixed Issue – Panopto RTMP Server URL Not Working in Select Regions (originated in v3.00) – Panopto RTMP Server URL for webcasting was not updated per region. This issue has been resolved.
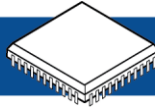
Version: 3.00.0004

          Affects: **Firmware Revision:** 2.11.0000 and prior

                                       Date: NA

The following is a list of changes and fixes in this release.

New – FlexOS™ App Support for Schedule and Publishing Events – Scheduling and Publishing FlexOS apps are now supported and can be installed in the Advanced Features → FlexOS Apps section.

Updated – Schedule Sources and Publish Destinations are Removed from Schedule Events – Active Schedule Sources and Publish Destinations are removed from the Schedule Events page and require FlexOS applications. Please verify if corresponding Schedule or Publishing FlexOS app is available for a current video platform service before upgrading firmware. If a current service is not available, please use FIRMWARE v2.11 or prior. **Note:** *If firmware was accidentally upgraded to v3.00, it can be safely re-flashed to prior firmware to return Schedule and Publish settings.*

FIRMWARE RELEASE HISTORY

Version: 2.11.0000
| | **Affects:** | **Firmware Revision:** 2.09.0004 and prior |
| | | **Date:** Units shipped prior to August 2019 |

The following is a list of changes and fixes in this release.

New - RTMPS Streaming to Facebook Live Services – RTMPS Push streaming to Facebook Live services is supported in this firmware update.

Updated – Removed Entwine EMP Schedule and Publish Option – Entwine EMP is no longer supported in current versions and the option has been removed from the Schedule and Publish settings.

Fixed Issue – "Ch B Dual Mono" Setting is Not Preserved on Archive B After a Reboot (originated in v2.09) – Setting is Not Preserved on Archive B After a Reboot on Dual Channel Encoder Mode. *Note: This only applies to SMP 352 or SMP 351 with Dual Recording Channel LinkLicense.* This issue has been resolved.
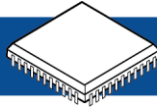
Fixed Issue – Firmware Failure Alarm When Switching Between Composite and Dual Channel Encoder Mode (originated in v2.05) – Firmware failure alarm could trigger when switching between composite and dual channel encoder mode that would require a reboot to clear. *Note: This only applies to SMP 352 or SMP 351 with Dual Recording Channel LinkLicense.* This issue has been resolved.

Fixed Issue – "There is currently not enough space on unit" Error (originated in v2.07) – "There is currently not enough space on the unit" error not allowing firmware upgrade, file uploads and other actions from the units unintended filling of space. This issue has been resolved.

Fixed Issue – SSL Certificate Upload Could Disable WebUI Access (originated in v2.09) – Upload of an SSL Certificate without private key could disable WebUI access. This issue has been resolved.

Fixed Issue – Not Parsing "special characters" in URL for Periodic Calendar Import (originated in v1.06) – Special percent encoded characters such as "%40" which is special character "@" would fail in the URL for periodic calendar import. This issue has been resolved.

Fixed Issue – RTSP Pull Streaming to Certain Devices or Decoders Failing (originated in v2.07) – Certain devices or decoders would fail pulling RTSP streams. This issue has been resolved.

Page 15
49-542-50 Rev. 3.06.0005

Extron USA - Worldwide Headquarters
1025 E. Ball Road | Anaheim, California 92805
800.633.9876 | 714.491.1500 | www.extron.com

FIRMWARE RELEASE HISTORY

Version: 2.09.0004

Affects: **Firmware Revision:** 2.08.0013 and prior
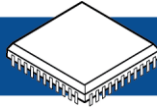   **Date:** Units shipped prior to February 2019

The following is a list of changes and fixes in this release.

New – LinkLicense for Horizontal Video Mirroring Upgrade — Streamlines recording by automatically flipping video horizontally to support lightboard or other applications that require reversal of the video image.

Improved Feature – Added Default Encoder Presets 10 through 18 — Updated default presets 10 through 18 to provide convenient settings that make it easy to integrate the SMP into a content management system.

Fixed Issue – "Video Only" Setting is Not Preserved on Archive B After a Reboot (originated in v2.08) – Setting is Not Preserved on Archive B After a Reboot on Dual Channel Encoder Mode. *Note: This only applies to SMP 352 or SMP 351 with Dual Recording Channel LinkLicense.* This issue has been resolved.

Fixed Issue – WebUI Help Button for SSL Certificate Not Functional (originated in v2.08) – WebUI Help button for SSL Certificate was not functional. The "?" button for the SSL Certificate under Configuration → System Settings → SSL Certificate now opens the help file. This issue has been resolved.

FIRMWARE RELEASE HISTORY

Version: 2.08.0013

        Affects: **Firmware Revision:** 2.07.0002
                                      Date: Units shipped prior to December 2018

The following is a list of changes and fixes in this release.

New – Option to Enable/Disable Record Destinations – Added the option to enable/disable the Record Destinations for Internal, Front USB, Rear USB, or RCP USB. The setting can be found under WebUI (Configuration → System Settings → Recording Media Selection).

New – Option to Enable Auto Start and Stop of RTMP Stream with Recording – Added the option to enable auto Start and Stop of RTMP PUSH stream with Recording. The setting can be found under WebUI (Configuration → Encoding & Layout → Encoding Presets).
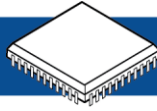
New – User-selectable Audio Encoding Sample Rate – Audio Encoding Sample Rate can be selected between 48000 and 44100 under WebUI (Configuration → Encoding & Layouts → Audio Encoding).

New – Recording Profiles for Metadata – The SMP 300 Series now offers user-created recording profiles, collections of metadata that can be recalled and applied to recordings. The setting can be found under WebUI (Configuration → Encoding & Layout → Recording Profiles).

New – GlobalViewer Enterprise Integration – The SMP 300 Series now offers integration with GlobalViewer Enterprise software for management. Will require GVE 2.8 for compatibility.

New – Secure Sockets Layer (SSL) Certificates Support – The SSL Certificate option allows the user to view and upload SSL certificates for the SMP. The setting can be found under WebUI (Configuration → System Settings → SSL Certificate).

New – Full Screen on Active Input When Video Input Not Active on Other (Composite Mode Only) – By default, an input is displayed as a black window when the selected input is not active. The new firmware adds the option to show full screen on the active input to hide the inactive input. With this setting, the active input can be displayed in full screen instead of a composite layout with black window. When both inputs are active, the SMP will return to the previous layout. This configuration is available on WebUI (Configuration → Encoding & Layout → Layout Presets). **Note:** *The WebUI will still show the Layout Preset instead of Full Screen. Also, if a new layout preset is selected during an active input in Full Screen, then the layout will not be applied until the other input source is active.*

Updated – Default Recording Destination to Internal and Secondary Auto – New default Recording Destination for SMP 351 are Internal and Secondary Auto enabled if the setting had not been modified from factory (previous default is Internal only). If Recording Destination has been modified from factory, then this new default will take effect only after a reset.

Updated – RTMP streaming to Vimeo and AWS – The SMP updated RTMP streams to work with Vimeo and AWS MediaLive streaming services after this update.

Updated – Writing Secondary Recording with Separate Threads – By writing Secondary Recordings with a separate thread, internal recordings can be preserved when USB drives with slow speeds cause issues

Updated – Increased Maximum Ad hoc Recording Duration – Ad hoc recordings had a variable maximum length of 0 to 8 hours. With this firmware update, an Admin can configure the maximum ad hoc recording duration from 0 to 24 hours in WebUI (Configuration → System Settings → Recording Media Selection). The default setting is unlimited duration.

Updated – Digital Input with Pull-up Status Not Retained After Unit Reboot (originated in v1.00) – After unit reboot, the on/off status of a digital input with pull-up could be out of sync. This issue has been resolved. Note: Requires SMP 300 Series FlexOS App 2.08.
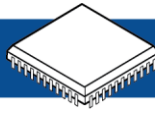
Fixed Issue – Kaltura Schedule Ingest Was Limited by 30 Events (originated in v2.05) – Enabled by Enhanced Kaltura Features LinkLicense, Kaltura Scheduling ingested a maximum of 30 events at a time. This upper limit has been removed.

Fixed Issue – RTSP Ports Outside of Specified Range (originated in v2.05) – RTSP Pull streams would use ports outside of the specified range in Encoding settings. This issue has been resolved.

Fixed Issue – HDMI Preview Output Took Longer to Switch Between Encoding Modes (originated in v2.07) – HDMI Preview Output would take a longer time switching between Composite and Dual Channel modes. This issue has been resolved.

Fixed Issue – Streaming Presets Could Not Be Used to Recall Facebook RTMP Streams (originated in v2.07) – Streaming presets could be recalled for Facebook live RTMP streams and would return an "error loading preset value" message on WebUI. This issue has been resolved.

Fixed Issue – Upload to Network Storage Failed due to "no space left" Error (originated in v2.07) – Network shares incorrectly mounted which caused uploads to fail with "no space left" errors. This issue has been resolved.

FIRMWARE RELEASE HISTORY

Version: 2.07.0002

        Affects: **Firmware Revision:** 2.05.0002

                                 Date: Units shipped prior to June 2018

The following is a list of changes and fixes in this release.

New – Timed File Cleanup – Recordings can now be automatically removed after a specified amount of days. The settings for auto recording deletion can be configured on WebUI. (Scheduled Events → Recording Calendar → Timed File Cleanup)

New – Upload Recording Files Only – Added option to upload recording files of Video and Audio only (without containing folder) instead of the complete recording folder. (Scheduled Events → Publish Settings → Publishing Destination Configuration → Other FTP/SFTP/CIFS)

New – Option to Disable "No Source" OSD – Added the option to disable the "No Source" OSD which indicates no active video input. (Configuration → Input/Output Settings → OSD Configuration)

New – SMBv2 and SMBv3 Support – Added support of SMBv2.0, SMBv2.1 and SMBv3.0 protocols for secure file sharing in Windows environments. The shares can be added to the Network Shares under File Management. Please see File Management section in the Help File for details.
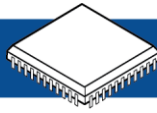
New – "Confidence Layout" in Dual Channel Mode – Added in Dual Channel Mode, under "Confidence Layout" the option to change from 10 factory-defined layout presets for the Confidence Stream. (Configuration → Encoding & Layout → Layout Presets) This layout preset can also be selected using SIS.

New – "Confidence Layout" for HDMI Preview Out in Dual Channel Mode – The HDMI Preview Output can now output the selected "Confidence Layout" in dual channel mode. (Configuration → Input/Output Settings → Preview Output Configuration). This setting can also be selected using SIS.

New – RTMP streaming to Vimeo – The SMP can stream to Vimeo, uStudio and some other streaming services after this update.

New – Streaming Presets – 32 streaming presets combining stream destination, protocols, and parameters are available for quick and easy setup, and switching between live streams. (Configuration → Encoding & Layout → Encoding Presets). Streaming presets can also be saved and recalled using SIS.

New – Delete Recording Folder After Successful Upload – Recording folders can now be auto-deleted from the internal storage right after successful uploads. (Scheduled Events → Publish Settings → Active Profiles)

New – System Name and Location on WebUI and Page Title – The System Name and Location of the unit can now be seen on the WebUI and the web page title of the default web pages.

New – HDMI Preview Out Mute Options – The HDMI Preview Out now supports Video, Audio, or Audio and Video mute. (Configuration → Input/Output Settings → Preview Output Configuration). These mute settings do not affect recording and streaming output. The HDMI output mute options can also be selected using SIS.

New – Manual Schedule Update – Added a trigger for a schedule update. The SMP re-syncs to the latest schedule when the "Update Schedule" button is pressed. (Scheduled Events → Recording Calendar → Active Profiles). This function can also be triggered using SIS.

New – Delete recording file and event using SIS – A new SIS is added to allow deleting a recording folder together with its event by specifying its DB_ID. (DB_ID can be found under Scheduled Events → Calendar View/List View). The SIS can also delete a scheduled event.

New – Unmount USB storage using SIS – A new SIS is added for safely eject USB storage from the SMP. An E14 error will be returned if the unit is in the middle of writing to the selected USB storage port.

New – Context-sensitive Web links – The "?" Help buttons on the SMP WebUI can open specific help topic of the tab.

Updated – Allow restore configuration between SMP 351 80GB and 400GB models – Unit configurations saved on a SMP 351 can be restored onto 80GB and 400GB models.
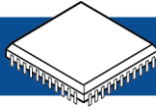
Updated – Default Channel B input changed to input 4 – HDMI digital inputs are most commonly used on the SMP, so the default channel B input has been changed to input 4 (from analog input 3).

Updated – Removed SCM Publish Option – SCM is no longer supported in current versions and the option has been removed. For a table of compatible versions, please see "Tech Notes" section on "SCM Compatibility".

Fixed Issue - RTSP Stream Could Not Be Disabled (originated in v2.05) – The RTSP stream would still be available even when streaming was disabled through the WebUI or through SIS commands. This issue has been resolved.

Fixed Issue - Failed to install LinkLicense (originated in v2.05) – The LinkLicense Loader failed to update and install LinkLicense file. This issue has been resolved.

Fixed Issue - Background Image and Metadata Elements WebUI were not working (originated in v2.05) – The Metadata Elements and Background Image WebUI under the Configuration->Encoding & Layout->Layout Presets were not

working and the settings could not be changed in the WebUI. This issue has been resolved.
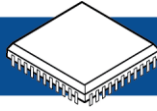
Fixed Issue - Recording Enabled Checkbox was Unchecked When Secondary Recording was Enabled (originated in v2.05) – In the default webpages the Recording Enabled checkbox in Configuration->Encoding & Layout->Encoding Presets was mistakenly shown as unchecked if the Secondary Recording was enabled in Configuration->System Settings->Recording Media Selection. This issue has been resolved.

Fixed Issue – Recordings Might Be Corrupted in Dual Channel Recording (originated in v2.05) – Recordings might not be finalized correctly and resulted in corrupted files in Dual Channel Mode due to depleting resources. This intermittent issue has been resolved.

Fixed Issue – Failed to accept RTP Push port range entered from WebUI (originated in v2.05) – WebUI RTP Push Port entry was not saved. This issue has been resolved.

Fixed Issue – Unable to Export Large Log CSV Files (originated in v2.03) – Very large CSV log files would fail to be exported in Chrome and Firefox. This issue has been resolved.
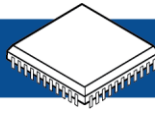
Fixed Issue – "Channel is not active" message toggled on WebUI (originated in v2.00) – When using a full screen layout, a "Channel is not active" message appeared on and off in Recording Controls tab. This issue has been resolved.

Extron USA - Worldwide Headquarters

1025 E. Ball Road │ Anaheim, California 92805

800.633.9876 │ 714.491.1500 │ www.extron.com

Version: 2.05.0002
           Affects: **Firmware Revision:** 2.05.0001
                                     Date: Units shipped prior to February 2018

The following is a list of changes and fixes in this release.

Fixed Issue – Updated implementation of Diagnostic Tools – Diagnostic tool library
updated to multi-step command execution. Update resolved system call executions
that could lead to potential misuse of diagnostic tools. Includes supplemental filtering
to eliminate execution of improper parameters.

Extron USA - Worldwide Headquarters
1025 E. Ball Road │ Anaheim, California 92805
800.633.9876 │ 714.491.1500 │ www.extron.com

FIRMWARE RELEASE HISTORY

Version: 2.05.0001

Affects: **Firmware Revision:** 2.03
                      Date: Units shipped prior to January 2018

The following is a list of changes and fixes in this release.

New – Audio-Only Recording Option – Added audio-only recording option for recordings. The feature can be enabled from WebUI Configuration tab ->Encoding & Layout-> Encoding Presets.

- For m4v/mp4 and m4a recording, select "Recording Enabled" and "Audio-only Recording Enabled" checkboxes.
- For m4v/mp4 recording, select "Recording Enabled" checkbox only (default).
- For m4a recording, select "Audio-only Recording Enabled" checkbox only.

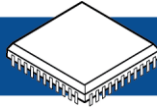The setting can also be controlled via SIS

Command	ASCII	Response	Additional Description	Parameters
Audio-only Recording				
Enable audio-only recording	Esc A1* 1RCDR ←	RcdrA1* 1 ↵	enable audio-only recording	x_{510} = Status: 0 = disable, 1 = enable
Disable audio-only recording	Esc A1* 0 RCDR ←	RcdrA1 * 0 ↵	disable audio-only recording	
View status	Esc A1 RCDR ←	x_{510} ↵	View Status	

New - RTMP Streaming to Azure Media Services – RTMP Push streaming to Microsoft Azure Media services is supported in this firmware update.

New – iCalendar field mapping for Kaltura Category metadata – The SMP maps the "RELATED-TO:<full category path>" or "X-Kaltura-Category-IDs:<CategoryID>" iCalendar field to a category or categories in Kaltura. The recording files will then publish to the category specified.

Updated - SMP Streaming Engine – The SMP streaming engine was upgraded on v2.05 to support simultaneous unicast and multicast RTSP streaming and custom stream name. As a result, all streaming settings are reset after the firmware update from v2.03 or earlier. Please copy all streaming settings prior to upgrading the firmware.

Updated – Unlimited recording file size and FAT file system – The SMP is configured to record to both internal and USB, with no file size limit.
When recording file size reaches 4GB, the internal recording will continue to write to a single file while the secondary USB, formatted in FAT32, will start a new file because of the 4GB FAT file size limit. (On previous firmware v2.03 or older - When recording file size reaches 4GB, the internal recording would continue to write to a single file while the secondary USB, formatted in FAT32, would stop due to reaching the FAT file size limit).

Extron USA - Worldwide Headquarters

1025 E. Ball Road │ Anaheim, California 92805

800.633.9876 │ 714.491.1500 │ www.extron.com

Updated – Identifier metadata for ad hoc recording – "Identifier" metadata can now be set via SIS command before an ad-hoc recording. (On previous firmware v2.03 or older, "identifier" metadata was read-only.) The SMP will assign the filename of a recording as its "identifier" if the metadata is not defined.

Fixed Issue - Intermittent File Publish Stuck (originated in v2.02) – File upload over FTP/SFTP/CIFS or Network Shares might stall, and a unit reboot was required to resume uploading. This intermittent issue has been resolved.

Fixed Issue - Intermittently Recordings Would Fail to Ingest to Entwine (originated in v2.00) – SMP Recordings might fail to ingest correctly to Entwine and it caused processing error on Entwine. This issue has been resolved.

Fixed Issue - Video-Only Dual Channel Recording File Contained Audio Track (originated in v2.00) – In Dual Channel Mode (available on SMP 351 with LinkLicense and SMP 352) with one channel set to recorded with audio and the other without audio, the video-only recording still contained audio track and it could cause file publishing error. This issue has been resolved.
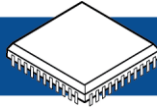
Fixed Issue - Disk Cleanup Might cause issues in Recordings (originated in v2.00) – The automatic disk cleanup to clear old, non-locked recordings on the internal drive could cause error during recordings. This issue has been resolved.

Fixed Issue - iCalendar Import Might Failed due to Time Zones syntax (originated in v2.00) – Schedule ingest error was returned when the time zone in iCalendar file were not enclosed in quotes. This issue has been resolved.

Fixed Issue - Recording Files Might Not Finalized (originated in v2.00) – Some recording may not be playable because the files were not finalized correctly. This intermittent issue has been resolved.

Fixed Issue - A Startup Condition Could Cause the Unit to Hang on Boot (originated in v2.02) – During SMP startup, a condition could arise after a firmware upgrade where the unit could hang or stall. This issue has been resolved.

Improved - Recording Remaining Time Estimate (originated in v2.00) – The recording remaining time could seem inconsistent during a recording. This issue has been improved. Please note that before recording, the record remain time is a worst-case estimate, calculated based upon the selected bit rate. While recording, it uses an average of the actual bit rate but still depends on the content. Thus, the remain time can change dramatically when content changes.
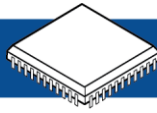
FIRMWARE RELEASE HISTORY

Released Version: 2.03
        Affects: **Firmware Revision:** 2.02
                               Date: Units shipped prior to August 2017

The following is a list of changes and fixes in this release.

Fixed Issue - Intermittent Entwine Publishing (originated in v2.00) – In-progress ingest transfers might not start or finish uploading files to Entwine EMP. This issue has been resolved.

Fixed Issue - Audio SIS commands not working (originated in v2.02)– Audio Mute and Audio Level SIS commands always returned E13 error when using firmware v2.02. This issue has been resolved.

FIRMWARE RELEASE HISTORY

Released Version: 2.02
          Affects: **Firmware Revision:** 2.00
                                   Date: Units shipped prior to June 2017

The following is a list of changes and fixes in this release.

New - RTMP Push Stream Support – Added RTMP push streaming for archive and confidence encoders.

New - RCP 101 Series Support – Added support for RCP 101 D, RCP 101 EU, and RCP 101 MK remote control panels for remote recording operation.

New - Publish to Network Share option – In addition to CIFS, FTP, and SFTP file publish, the SMP can upload recording files to a Network Share. To mount a network share, go to WebUI File Management tab. The file publish setting can be found under WebUI Scheduled Events tab -> Publish Settings -> Other FTP/SFTP/CIFS.

New - Adjustable Ad hoc Recording Length – Ad hoc recordings had a Fixed Issue maximum length of 8 hours. With this firmware update, Admin can configure the maximum ad hoc recording duration from WebUI Configuration tab ->System Settings->Recording Media Selection. The default setting is unlimited duration.

New - Maximum GOP Length of 300 – GOP Length for previous versions had a maximum of 30 frames, the maximum has increased to 300 frames.
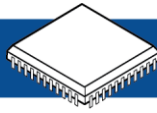
New - Firmware Failure Alarm – Firmware failure alarm will be triggered if one or more firmware services are in failed state. When the alarm is active, Admin should reboot the SMP. If a reboot doesn't clear the alarm, send the diagnostic file and box configuration file to Extron Application Engineer for further troubleshooting.

New - Detailed User Log for Schedule Import and File Publish – The user log on WebUI Troubleshooting tab -> Logs now includes additional logging for schedule import and file publish. This is useful for troubleshooting.

Updated Kaltura file publishing in Dual Channel mode (SMP 352 or SMP 351 with LinkLicense Upgrade) – Two recording files were published to Kaltura as two entries. With this firmware update, the two files are sent under one entry to allow quick switching between two channels during video playback.

Fixed Issue – Horizontal Line Artifacts (originated in v1.02) – Horizontal line artifacts could show in recordings and stream intermittently. This issue has been resolved.

Fixed Issue – Boot Loop Caused by Firmware Failure (originated in v2.00) – The SMP 300 Series could go into a reboot loop after a failure in firmware. This issue has been resolved.

Fixed Issue – FTP/CIFS Publish Requiring Reboot for Uploads (originated in v2.00) – FTP/CIFS Publish would occasionally fail to transfer and required a reboot to finish uploads. This issue has been resolved.

Fixed Issue – SMP Uploading Same Recording Multiple Times to Opencast (originated in v2.00) – SMP could upload the same recording multiple times to Opencast 2.1+ because the file transfer completed message was not received in time. This issue has been resolved.

Fixed Issue – User Level Authentication Denied Preset Recall SIS Commands (originated in v2.00) – User level authentication denied preset recall SIS commands. This issue has been resolved.

Fixed Issue – Extra Data Written to MP4 Files in Dual Channel Recordings (originated in v2.00) – Extra data was written to MP4 files for Dual Channel recordings which caused file ingestion issues on certain servers. This issue has been resolved.

Fixed Issue – Disabling Thumbnail May Cause Reboot (originated in v2.00) – With thumbnail capture setting off, the SMP may reboot when the un-pause command is received.

Fixed Issue – Recordings Would Fail Due to Invalid Video Signal (originated in v1.06) – Some invalid video sources could cause recordings fail to start. This issue has been resolved.
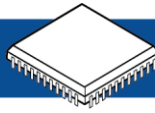
Fixed Issue – GUID Partition Table (GPT) Drives Not Recognized (originated in v1.06) – USB storage drives using GUID Partition Table (GPT) would not be recognized by the SMP 300 Series. This issue has been resolved.

Fixed Issue – Office 365 iCal Files Not Importing (originated in v1.06) – Certain Office 365 iCal files would not import any scheduled events or import them incorrectly. This issue has been resolved.

Fixed Issue – Layout Preset Issues with Negative Position Values (originated in v1.06) – Recalling Layout Presets with certain negative position values would recall incorrect window layout positions. This issue has been resolved.

Fixed Issue – Drive Space Available inconsistent for Front Panel and Recording Controls Page (originated in v1.00) – Front Panel Status displayed Free Space available, while the Recording Controls Page displayed recapturable disk space available. This issue has been resolved by displaying the recapturable disk space on both.

Fixed Issue – Confidence Stream MTU settings not available for archive with push streaming (originated in v1.06) – Confidence stream MTU setting was not available for adjustment. This issue has been resolved.

Released Version: 2.00

<table>
<tr><td>Affects:</td><td>**Firmware Revision:** 1.06</td></tr>
<tr><td></td><td>**Date:** Units shipped prior to October 2016</td></tr>
</table>

The following is a list of changes and fixes in this release.

New - LinkLicense Support – Added support for LinkLicense upgrades. Extron LinkLicense offers a quick, cost-effective way for people to add even more powerful capabilities to the Extron SMP 351.

New - Advanced DSP feature (SMP 352 or SMP 351 with LinkLicense Upgrade) – Added advanced audio DSP features that offer control over audio levels, filtering, and dynamics for a quality audio experience without requiring the use of external mixing and DSP equipment.

New - Dual recording feature (SMP 352 or SMP 351 with LinkLicense Upgrade) – The SMP 352, or SMP 351 with LinkLicense Upgrade, dual recording feature creates independent recordings from two different video sources with independent archive stream settings for each channel.

New - Kaltura large file upload – Firmware v1.05 introduced new integration with Kaltura's hosted service. The SMP 300 Series was unable to upload media files larger than 2GB. This issue has been resolved. Setting can be found in the WebUI under tabs (Configuration → System Settings → Recording Media Selection).
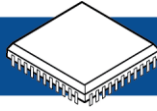
New - NTFS file format – Added NTFS file format compatibility for external USB devices.

New - SIS commands to select record destination – Added SIS commands to select the recording destination from the internal hard drive or USB storage connections for the SMP 300 Series.

New - Entwine EMP scheduling and publishing integration – Added Entwine EMP integration. Entwine EMP is a tightly integrated end-to-end software solution that facilitates the capture, management, and playback of media files from meetings, lectures, and other live events.

New - Frequency adjustment of Thumbnails – Added the ability to adjust thumbnail frequency and the ability to disable thumbnails.

New - Audio Output Meter to WebUI – Added Audio Output Meter in AV Controls to view the Audio Output on the SMP 300 Series webpages

Extron USA - Worldwide Headquarters

1025 E. Ball Road │ Anaheim, California 92805

800.633.9876 │ 714.491.1500 │ www.extron.com

Extron

Fixed Issue – Thumbnail size limitation (originated in v1.06) – After firmware upgrade to v1.06, the thumbnail size selection is switched to "Normal" (848x480). Changing thumbnail size to "Follows Archive" did not apply. This issue has been resolved. (Configuration → System Settings → Marks and Thumbnails).

Fixed Issue – Recall Layout Preset on Digital I/O app (originated in v1.02) – Recall of layout presets on the Digital I/O app would not trigger from the digital I/O ports. This issue has been resolved.
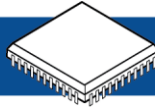
Fixed Issue – Duplicated Image on SDI Issue (originated in v1.06) – SDI 1080i input signals could cause image issues on reboot. This issue has been resolved.

Fixed Issue – Date Metadata Display in UTC (originated in v1.05) – The Metadata Time and Date on the OSD displayed time in UTC time instead of Local time. This issue has been resolved.

Fixed Issue – SMP 300 Series unable to detect input signal from IN1606 (originated in v1.05) – SMP 300 Series unable to detect signal from IN1606 whenever IN1606 reboots. This issue has been resolved.

Fixed Issue – CIFS Domain Issue (originated in v1.05) – CIFS connection can fail on firmware v1.05 and v1.06 because the domain name is not properly processed by the SMP 300 Series. This issue has been resolved.

Fixed Issue – USB 3.0 Compatibility with certain USB external drives – Some external USB drives would not be recognized by SMP 300 Series. This issue has been resolved.

Page 29
49-542-50 Rev. 3.06.0005

Extron USA - Worldwide Headquarters
1025 E. Ball Road │ Anaheim, California 92805
800.633.9876 │ 714.491.1500 │ www.extron.com

FIRMWARE RELEASE HISTORY

Released Version: 1.06
               Affects: **Firmware Revision:** 1.05
                                      Date: Units shipped prior to May 13, 2016

The following is a list of changes and fixes in this release.

New - MP4 file extension option for video recordings – The SMP 351 can now save recordings with either MP4 or M4V file extension. This setting can be found in the WebUI (Configuration → System Settings → Default Recording File Names).

Updated HTTPS support for calendar import – The SMP 351 can now support periodic iCalendar imports over https protocol. The root certificate bundle file, *cacert.pem*, must be uploaded to the SMP 351 (File Management → File Upload Utility, and upload to "certs" destination directory).
For self-signed certificate, it can be imported to the SMP 351 in cer, pem, crt or key file format. Self-signed certificate does not require uploading the cacert.pem file to the SMP 351.

Improved Lip Sync with QuickTime Player – Some videos would exhibit lip sync issues when playing back with QuickTime Player. This issue had been resolved.

Changed default Audio Channel Selection to Dual Channel (Channel A +B) – Previously, the default Audio encoding selection was Channel B. With FIRMWARE v1.06, the default selection mixes the audio from Channel A and Channel B.
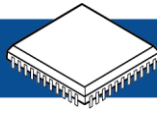
Fixed Issue – Incompatible with some FTP servers (originated in v1.05) – With certain FTP servers, FTP publish would fail using FIRMWARE v1.05 because it could not establish connection. This issue has been resolved.

Fixed Issue – Incomplete SFTP file publish (originated in v1.05) – Some recording files might not finish uploading to a SFTP server. A reboot was required to resume file transfer. This issue has been resolved.

Fixed Issue – Green tint and image resizing issue when using SWAP (originated in v1.02) – Intermittent green tint or frame would occur along with some resizing of Channel A or Channel B windows during a SWAP function. This issue has been resolved.

Fixed Issue – Admin password overwritten (originated in v1.05) – The Admin password would be overwritten as **** when saving a new user level password from the Web Interface. This issue has been resolved.

Fixed Issue – Intermittent audio noise using upstream matrix (originated in v1.02) – Intermittent noise was heard on the SMP 351 after rebooting an upstream DTP CrossPoint 84. This issue has been resolved in conjunction with DTP Crosspoint 84 firmware v1.05 updates.

Fixed Issue – Black (blank) video window using upstream matrix (originated in v1.02) – Sending HDCP content to SMP 351 Channel B input 4 through a DTP Crosspoint 84 could result in black video. This issue has been resolved in conjunction with DTP Crosspoint 84 firmware v.1.05 updates.
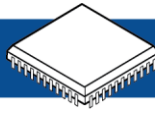
Fixed Issue – USB Date Modified displayed in UTC time (originated in v1.00) – Recordings saved onto external USB storage now display the Date Modified field in local time instead of UTC time.

Fixed Issue – Events scheduled by Exchange 2010 could indicate wrong time (originated in v1.05) – Events scheduled by Exchange 2010 could import incorrectly and result in wrong time zone shift. This issue has been resolved.

Fixed Issue – Disk Error alarm after restoring backup configuration files (originated in v1.05) – After a box config restore, Disk Error alarm could appear when starting a recording from the front panel the very first time. This issue has been resolved.

Fixed Issue – File size limit applied to ext4 external USB storage (originated in v1.05) – The file size limit for FAT32 external drive was also applied to ext4 external storage, even when recording size is set to unlimited. This issue has been resolved.

Fixed Issue – RTP stream dropped after DHCP IP renewal (originated v1.02) – The new IP address caused streaming to reset and as a result, the RTP stream stopped. This issue has been resolved.

FIRMWARE RELEASE HISTORY

Released Version: 1.05
            Affects: **Firmware Revision:** 1.02
                                      Date: Units shipped prior to November 30, 2015

The following is a list of changes and fixes in this release.

New - Support for SMP 351 400GB SSD – Added support for the SMP 351 400GB SSD and SMP 351 3G SDI 400GB SSD.

New - Microsoft Exchange Server integration – The SMP 351 can now easily import schedules from the Microsoft exchange server. The configuration is available on the Web Interface (Scheduled Events → Schedule Settings).

New - Kaltura Video Platform integration – The SMP 351 recording files can be easily published to the Kaltura Hosted Video Platform. The configuration is available on the Web Interface (Scheduled Events → Publish Settings).
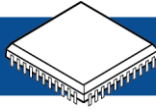
New - Push stream destination with hostname or IP address - In previous firmware, the push stream destination had to be entered as IP address. DNS hostname is also accepted in this new firmware.

New - user-configurable recording file size limit – Administrators can limit or disable the recording file size from 100MB to 3.8GB. When enabled and the file size limit is reached during a recording, the SMP 351 will create a new m4v file to allow continuous recording. When disabled, no file size limit is imposed and a single m4v file results. This feature can be configured from the Web Interface (Configuration → System Settings → Recording Media Selection).

New - selectable thumbnail size – Administrators can select between two different size options: to follow the selected Archive (recording) resolution or use the default (848x480) thumbnail size. This feature can be setup or changed via SIS or the Web Interface (Configuration → System Settings → Marks and Thumbnails).

New - Record Events List View to Web Interface – Besides Calendar view, previous and upcoming recording events can be displayed in a list which allows easy sorting. This configuration is available on the Web Interface (Scheduled Events → Recording Calendar → List View).

New - MARK button in AV Controls to Web Interface – The MARK button on the Web Interface acts just like the MARK button from the front panel of the SMP 351. This button is available on the Web Interface under AV Controls.

New - ability to edit a Layout Preset for either single or dual window mode in Web Interface – Added ability to create and edit a Layout Preset for a single or dual window layout. This configuration is available on the Web Interface (System Settings → Encoding & Layouts → Layout Presets → Picture Mode).

New - Size and Color options to OSD – Administrator can select different font size and color for OSD. This configuration is available on the Web Interface (Configuration → Input/Output Settings → OSD Configuration).

New - Encoder Presets to support the confidence encoder – Encoder presets can be saved and recalled to the Archive and Confidence encoders. This feature is available from the front panel, SIS and the Web Interface.

New - option to show transparent window when video input is not active – By default, the input is displayed as a black window when the selected input is not active. The new firmware adds the option to show a transparent window instead. With this setting the background can be displayed instead of a black window. This configuration is available on Web Interface (Configuration → Encoding & Layout → Layout Presets).

New - option to select dual recording from the front panel menu – Front panel menu has been updated to add the Dual recording selection. To select Single or Dual recording mode, go to Record/Stream Configuration menu from the front panel, then go to Recording submenu and make the selection via the front panel knobs.
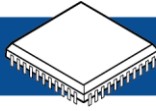
New - Ad-hoc recording limit to 8 hours – To prevent accidentally filling up internal storage, The SMP 351 will stop any ah-hoc recording when 8 hours is reached.

New - special characters support to FTP or SFTP file transfer password – Passwords that contain the 'at' symbol (@), colon (:) or question mark (?) can now be used in the FTP and SFTP transfers.

New - HTTPS support – Added support for HTTPS. Users must manually import the server certificate into the SMP 351 "cert" folder. The file name must contain the server FQDN, e.g. opencast.extron.com.cer. Common cert file extensions are supported, such as .cer, .crt, etc

Changed upload to Opencast and FTP/SFTP/CIFS Server to Exclusive Publish – Uploads to Opencast and FTP/SFTP/CIFS Server are now only active one at a time.

Fixed Issue - Web Interface Live View player (originated in v1.02) – On the Web Interface, go to Configuration → Encoding & Layout tab and click on the "Launch Player" button. Archive video stream will display on a popup window when it is configured as Pull streaming.

Extron USA - Worldwide Headquarters

1025 E. Ball Road │ Anaheim, California 92805

800.633.9876 │ 714.491.1500 │ www.extron.com

Fixed Issue - Audio level LEDs did not illuminate when adjusting input gain from the front panel (originated in v1.02) – From the front panel, use the Menu button to enter the Input Configuration menu → Audio level gain submenu. The front panel audio level indicator will light up to display the real time audio level of the selected input.

Fixed Issue - Dual recording function required two Saves to apply (originated in v1.02) – On the webpage, go to Configuration → System Settings → Default Recording Destination and select the Enable dual recording checkbox. The user selection will now apply right away after clicking the Save button.

Fixed Issue - Intermittent issue: stream method may reset to Pull (originated in v1.02) – Intermittently the SMP 351 unit resets its Push streaming to Pull streaming. This issue has been identified and resolved.

Fixed Issue - USB recording was not readable after disk space error (originated in v1.02) – In dual recording, the secondary recording saved onto a USB storage may stop before the internal recording finishes when the USB storage ran out of space. As a result, the USB recording was not readable. This issue has been resolved. To ensure the file is properly finalized, the USB storage should not be detached from the SMP 351 until the record session is finished.
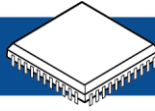
Fixed Issue - Layout Preset 1 was briefly displayed during preset recall (originated in v1.00) – When changing from a 1-window to 2-window layout preset, layout preset 1 was momentarily displayed before the newly selected layout. This issue has been resolved.

Fixed Issue - Network security scan could show vulnerabilities (originated in v1.00) – Network security scans of the SMP 351 could show some medium security vulnerabilities. This issue has been resolved.

Fixed Issue - Intermittent issue: No input 4 video when signal was fed from upstream matrix switcher (originated in v1.00) – This issue intermittently occurred after clearing ties on matrix, then making new ties. This issue has been resolved.

Fixed Issue - Opencast Server calendar polling could be stopped (originated in v1.02) – This issue was caused by the Opencast Server when the SMP 351 attempted to poll its calendar schedule. The SMP 351 would not resume fetching the schedule when the Opencast Server comes back online. This issue has been resolved.

Fixed Issue - Alert for scheduling server losing connection (originated in v1.00) – The Loss of Connection to a Scheduled Server did not trigger an alarm. This issue has been resolved.

Fixed Issue - Unsuccessful CIFS upload from multiple SMP 351 units to the same destination (originated in v1.00) – Uploading multiple recordings from multiple SMP 351 units to the same location at high transfer rates may cause transfers to not upload successfully. This issue has been resolved.

Fixed Issue - Disk Cleanup mechanism (originated in v1.00) – Recorded files would be marked by the SMP 351 as not able to delete and storage would fill up, causing recording errors due to storage space. This issue has been resolved.

Fixed Issue - Unsuccessful switching of presets when an input has no source (originated in v1.00) – If an input had no source it can cause an unsuccessful recall of a preset. This issue has been resolved.

Fixed Issue - Visible artifacts on background (originated in v1.00) – Artifacts were visible on certain background images. This issue has been resolved.
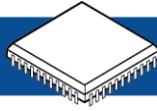
Fixed Issue - Importing background graphic causing erratic behavior on SMP 351 (originated in v1.00) – Imported background graphic can cause erratic behavior on SMP 351. This issue has been resolved.

Fixed Issue - Stream dropping due to client session count reaching 255 users (originated in v1.02) – SMP 351 would drop the stream and report the client session count reached 255. This issue has been resolved.

Fixed Issue - Import of iCalendar repeating events scheduled at wrong times (originated in v1.00) – Import of iCalendar repeating events from different time zones can cause scheduled events on different days. This issue has been resolved.

Fixed Issue - When recording for extended durations secondary m4v files intermittently had audio issues (originated in v1.00) – Audio on secondary files of extended recordings intermittently had audio issue on the recordings and also cause playback problems. This issue has been resolved.

Revised Web Interface – The SCHEDULED EVENTS tab has been significantly updated. We have combined all aspects of recording schedules into this section, including the configuration of schedule sources and the publishing locations.

Page 35
49-542-50 Rev. 3.06.0005

Extron USA - Worldwide Headquarters
1025 E. Ball Road | Anaheim, California 92805
800.633.9876 | 714.491.1500 | www.extron.com

FIRMWARE RELEASE HISTORY

Released Version: 1.02

Affects: **Firmware Revision:** 1.00

Date: Units shipped prior to March 31, 2015

The following is a list of changes and fixes in this release.

New - 3G-SDI input support for the new SMP 351 3G-SDI model – This firmware version can support both models: SMP 351 and SMP 351 3G-SDI.

New - Dual Recording option to allow simultaneous recording to USB and Internal SSD – When Dual recording is enabled, the recording files are saved to the internal SSD and the selected external USB drive simultaneously. The internal copy will be automatically uploaded to a server as normal. Currently this configuration is available on Web Interface (Configuration→System Settings→Default Recording Destination) only.

New - Layout Preset recall during recording – Presenter can now change layout during recording by recalling layout presets from the front panel, the Web Interface or SIS command.
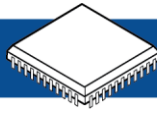
New - user-selected, non-English font support – In this firmware, user can upload font files in ttf or otf file format to the Fonts folder in the SMP351. The selected fonts can be applied to metadata overlay and OSD.

New - new SIS commands – In this firmware, user can enable/disable recording and streaming independently using SIS commands. These two settings were only available on the embedded webpage in firmware v1.00.

New - deleting individual recording files from Web Interface – From the Web Interface Scheduled Events tab, a delete button is added to each event. This Delete function removes the recording event and its associated recording files. Note that recording files cannot be deleted from the File Management tab directly.

New - deleting individual recording logs – The directory permission did not allow deleting log files manually, but this restriction is removed in firmware v1.02. User can delete logs from File Management tab on Web Interface or using a SFTP client.

New - Custom output resolution – Height and width of the custom resolution for recording and streaming can be defined on the Web Interface (Configuration→Encoding & Layout→Encoding Presets).

Extron USA - Worldwide Headquarters

1025 E. Ball Road | Anaheim, California 92805

800.633.9876 | 714.491.1500 | www.extron.com

New - Multi-file ingestion option to Opencast Matterhorn – The Enable multi-file ingest checkbox is found on the Web Interface under Configuration→Schedule Settings→Opencast Scheduling. In a long recording where SMP 351 creates multiple m4v files, all split recording files can be ingested into Matterhorn as a single event when the multi-file ingestion option is selected.

New - HTTP ETags support – This feature can minimize network traffic. When the SMP 351 requests schedules from the Matterhorn server, the server returns an ETag parameter. Each time the SMP 351 and Matterhorn exchange schedule information, the system reads the ETag and determines whether there were any changes to scheduled events since the last synchronization.

Updated Disk Cleanup mechanism – In this firmware, any recordings files, regardless of whether uploaded or not, will be automatically cleared when internal storage space reaches 95%. The new disk cleanup process deletes files in the following priority - The SMP 351 will first remove files that have been successfully uploaded to server, then it will remove the files that fail to upload or never been automatically transfer if additional internal storage is needed. The SMP 351 will never remove any "locked" internal files. (To lock a certain recording, go to the Web Interface under Configuration → File Management. Expand the Recordings directory and right click on the folder to select the Lock option.)

Improve Recording Remain Time –The record remain time is calculated based on the real-time bitrate. Both SIS command 36i and Web Interface now report the same value (HH:MM:SS) in firmware v1.02.

Changed NTP Time Sync default setting to disable – Administrator can enable the NTP clock synchronization feature from Web Interface (Configuration tab -> System Settings -> Date and Time) by selecting the NTP Time Sync checkbox. Enter up to three NTP servers, e.g. 0.north-america.pool.ntp.org.

Changed HDCP Authorized default setting on HDMI inputs – The default value is changed to off since the SMP 351 does not record HDCP protected content. Administrator can change the setting from Web Interface or SIS commands.

Fixed Issue - Filename is not updated using metadata SIS entries (originated in v1.00) – Metadata fields, Course, Creator and Title entered using SIS commands were not used as recording filename. This issue has been resolved.

Fixed Issue - date and time drift (originated in v1.00) – Even after syncing the date and time to PC or NTP Server, the time on some SMP 351 can be off by hours or days over time. This issue has been Fixed Issue in firmware v1.02.

Fixed Issue - Net Safe Reset was mistakenly listed under "Preserve Record content" (originated in v1.00) –Net Safe Reset returns all system setting to factory except IP setting and it also deletes recording files. This reset is now listed under "Delete content" session under Troubleshooting→System Resets on the Web Interface.