Selenio X100™

Profanity Delay Application Note

Looking for a cost-effective, high-quality Profanity Delay solution? Imagine Communications has you covered.
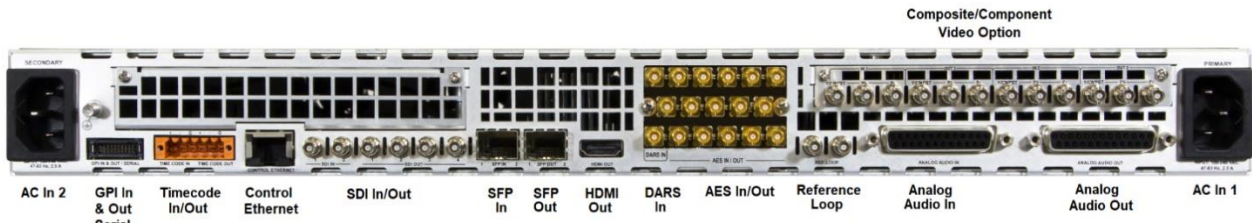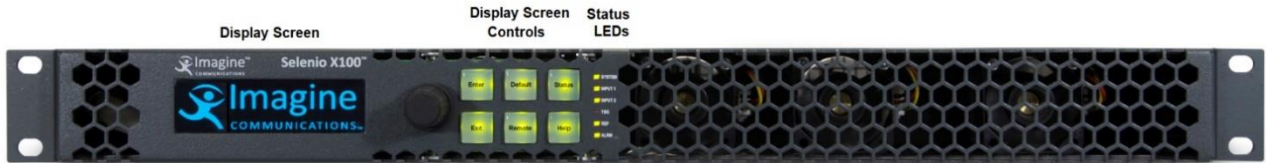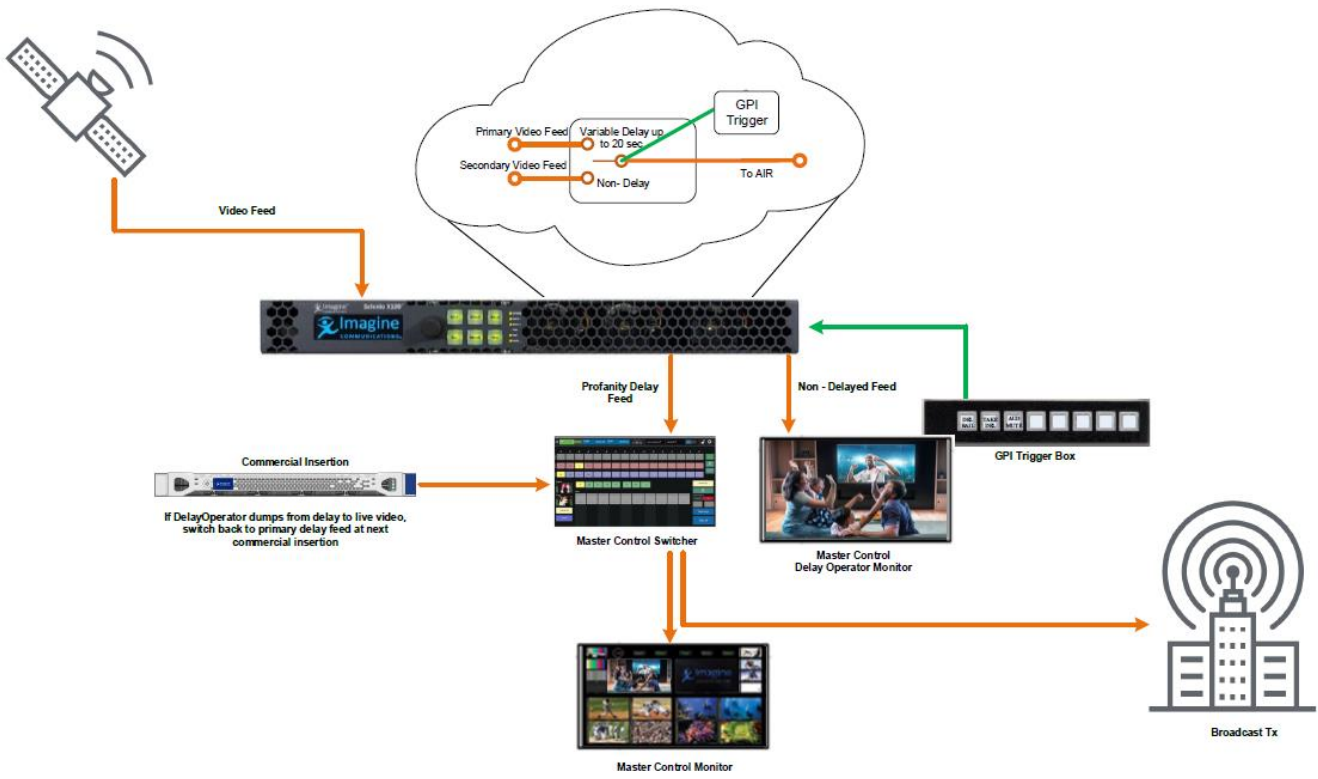
The Challenge:

The unpredictability of live events is thrilling, but not everything is approved for broadcast. It is key for broadcast operations staff to prevent offensive images or language from being transmitted to audiences and to avoid exposure to regulatory action. Imagine Communications has the tools to help the operations team ensure editorial and regulatory approval of live content.

The Solution:

Imagine Communications' Selenio X100 Dual-Channel Frame Synchronizer and Converter offers a profanity delay module. Used in Profanity Delay Mode, the X100 provides a cost-effective, high-quality solution that allows operators to prevent offensive language, gestures, and images from making it to transmission. A "non-delayed" version of the program signal is sent to the operator who has the option to "bail out" if a program signal contains profane images or audio, using a GPI trigger to select a backup signal to take to air. Custom scripts can be added for different behaviors based on GPI triggers.

Examples of programmed behaviors include:

- Dump Audio

- Dump Video

- Dump Audio and put up a Trouble Slate or Animated Logo

- Audio Remap

- Alternative Video

- Remove Captions

Primary Video Feed
Secondary Video Feed
Variable Delay up to 20 sec
Non- Delay
GPI Trigger
To AIR

Video Feed

Profanity Delay Feed

Non - Delayed Feed

Commercial Insertion

If DelayOperator dumps from delay to live video, switch back to primary delay feed at next commercial insertion

Master Control Switcher

GPI Trigger Box

Master Control Delay Operator Monitor

Master Control Monitor

Broadcast Tx

Display Screen

Display Screen Controls

Status LEDs

Composite/Component Video Option

| AC In 2 | GPI In & Out Serial | Timecode In/Out | Control Ethernet | SDI In/Out | SFP In | SFP Out | HDMI Out | DARS In | AES In/Out | Reference Loop | Analog Audio In | Analog Audio Out | AC In 1 |

Features and Benefits:

- Program delay up to 20 seconds for 1080p, 40 seconds for 1080i/720p, 220 seconds for 480i/576i

- Dual logo generator/inserters
    - Static built-in, can be used for a trouble slide
    - Optional 1/9th screen animated logos

- Simple GPI-button operation

- Support for SMPTE 259M, 292M, 424M

- Video and Audio Processing handles

- Branding of content through animated logo generator/inserter

- Built-in web server, enabling easy-to-use control and monitoring

- Dolby® Digital Plus codecs and RTLL Real Time Loudness Control

- Audio de-embed/embed, sync, delay, gain, invert and delay with 32 channels (eight groups) processing

- PCM and non-PCM (Dolby® Digital Plus, Dolby® Digital, Dolby® E) pass-through

- Only approved audio and imagery reaches the audience

Ready for the Future:

The proven technology in Imagine Communications' Selenio platform has been developed with decades of customer input and application use. Whether it is video & audio processing, logo / slate insertion or program delay applications, the Selenio family's software-based products are designed to meet customers' long-term technical requirements.

*To learn more on the Selenio X100 or any of the Selenio family of products, contact your Imagine Communications representative.