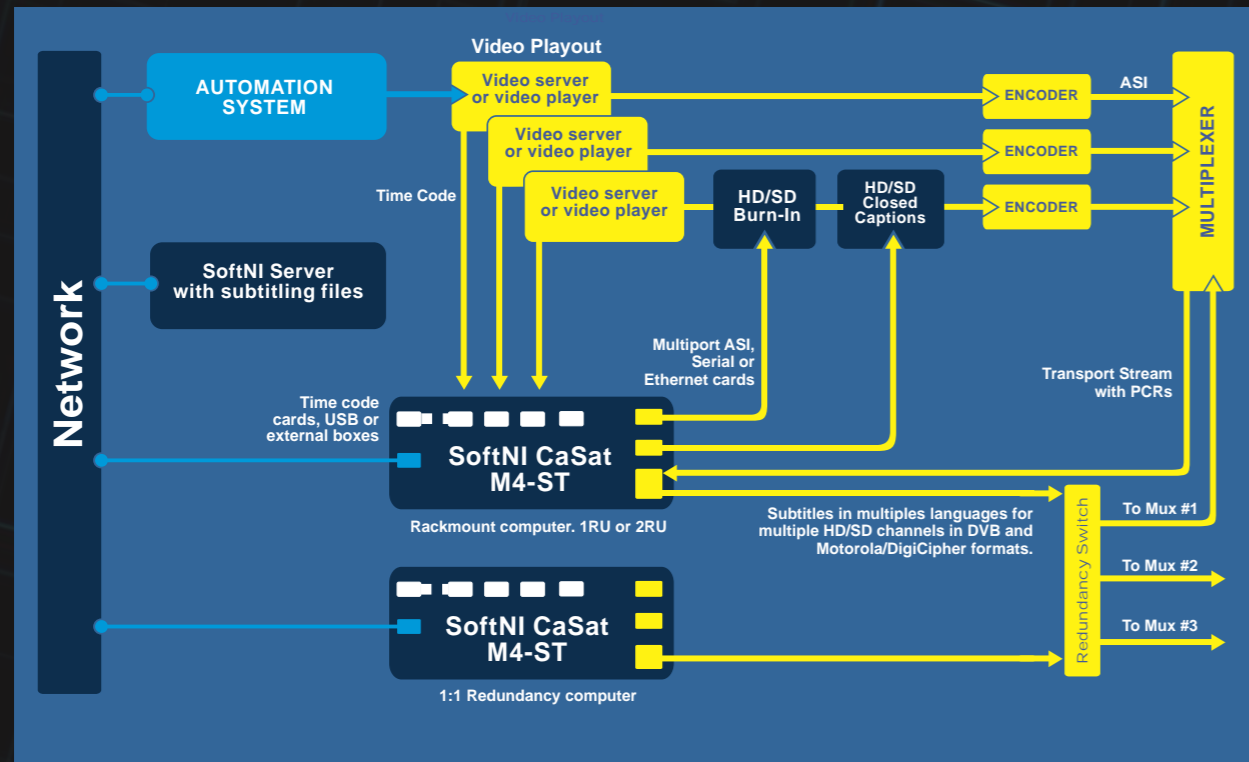
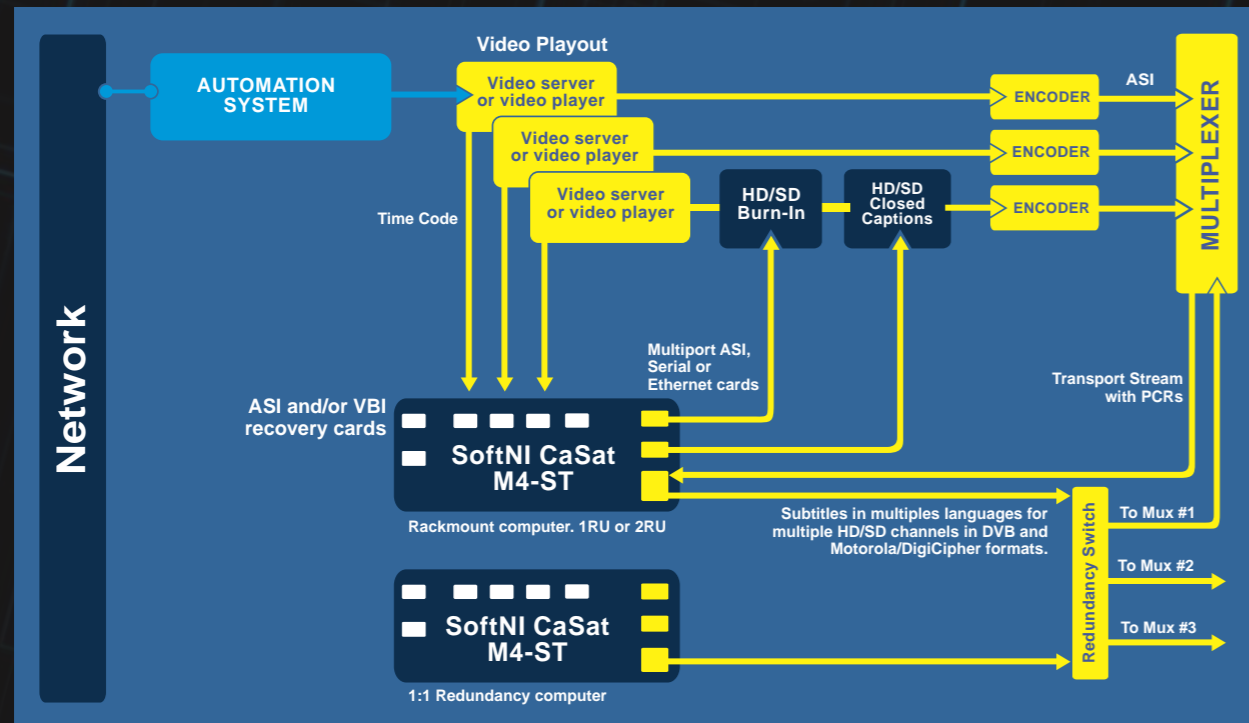


SoftNI CaSat M4-ST Subtitle Transmission System

Automation Option. Subtitling files stored in a server. Triggered by automation system. Synchronized by time code.



Pre-encoded Option. Subtitle data pre-embedded in HD/SD digital files. No automation or TC needed.



SoftNI Corporation is the most established developer of subtitling and closed captioning systems globally for the entertainment industry. Our commitment to innovation keeps pushing the boundaries of what's possible. Over 30 years ago, our founder pioneered a new set of rules for subtitle preparation and transmission. Since then we have been FIRST to develop solutions for: PC-based subtitling (1986), DVD subtitling (1997), subtitle preparation with MPEG/WV9 video player, interactive graphic timeline and audio-wave display (1998), NLEs (2000), open architecture software-based multi-channel DVB subtitling (2001), HD-VANC/SD-VBI data encoding into MXF and GXF digital files (2004), multi-purpose, multi-language, multi-channel, multi-standard, multi-platform subtitling transmissions (2008) and comprehensive QA for multi-channel transmissions (2012). We are working on new breakthroughs in subtitling and captioning every day.

The Most Advanced and Reliable
Subtitling Transmission System
for HD/SD ATSC, DVB, ISDB,
Motorola®/SCTE-27 and
DirecTV® Standards



CaSat Subtitling Suite™

Selected by Cisco, DirecTV, DLA, Embratel, Ericsson, FOX, Globosat/TVGlobo, HBO, MTV, NET, SKY, SONY/SPE, Telefonica, Televisa, Time Warner, Turner, and many other leading broadcasters and post facilities worldwide

The CaSat Subtitling Suite Difference

SoftNI CASAT Suite™ is a modular, open-architecture, multi-language, multi-channel, multi-standard, and multi-platform subtitling solution for terrestrial, cable and satellite transmissions. It provides high-quality, highly-readable subtitles in most European, Asian, African, and Middle Eastern languages.

Key Advantages

Reliability

- Very reliable software used by major broadcasters since 1996.
- Requires minimal hardware, decreasing risk of failure.
- Virtually 100% reliability with optional 1:1 full redundancy.

Power

- Multi-Channel, Multi-Mux. Can transmit dozens of channels/services simultaneously to one or multiple muxes.
- Multi-Standard, Multi-Platform. Transmits simultaneously to DVB, Motorola/SCTE-27, and DirecTV standards, and to HD and SD character generators, closed captions and Teletext encoders.
- Multi-Language. Supports most Unicode based languages.

Versatility

- All software based, modular.
- Non-proprietary - easy to upgrade and expand.
- Very easy to optimize configuration.
- Customizable to enable new client functionality.

Compatibility

- **Hardware** - compatible with most popular video servers, muxes, encoders, IRDs and STBs for digital transmissions, such as Harmonic, Irdeto, Pace, Motorola, Phillips, Cisco-Scientific Atlanta, SeaChange, Tandberg, Thomson, etc.
- **Files** - imports ASCII, ANSI, and Unicode scripts and subtitling files from virtually any subtitle preparation system.
- **Automation** - logical, simple, command-driven interface for automation systems.

Great Value

- Very low cost software expansion for additional channels.
- No proprietary, expensive hardware. Works with most professional off-the-shelf rack-mount computers and ASI and serial cards.
- No costly specialized technical support needed.
- Straightforward low cost operation and maintenance.

Highest Subtitle Quality

- High-resolution anti-aliased bitmap subtitles based on SoftNI's unique proprietary subtitle quality standards.
- Frame accurate synchronization of subtitles with dialogs.

Complete Operational Control

- A complete Monitoring system to instantaneously report subtitle display at uplink or downlink.

SoftNI CaSat MultiEncoder

Simultaneously encodes multiple subtitling files in multiple languages and multiple standards into the VANC (vertical ancilliary data) and the VBI (vertical blanking interval).

- ▶ Encodes multi-language subtitle data into the VANC/VBI.
- ▶ Synchronized by time code
- ▶ Off-line or on-line encoding
- ▶ Built-in QC module (IRD-STB Simulator) displays subtitles, in multiple languages, as they will appear to the viewer, so operators can comprehensively check quality control of subtitles in all languages.
- ▶ This pre-encoding process into the video to be broadcast ensures the integrity of the subtitles and their precise, dependable, permanent synchronization with the video.
- ▶ During transmission, subtitle data is retrieved from the VANC or VBI, transcoded and transmitted in the desired standard(s): DVB, ATSC, 708/608 closed captions, Teletext, open subtitles, and proprietary formats for DirecTV and Motorola SCTE-27.



- ▶ SoftNI CaSat MultiEncoder supports Unicode and most European, Asian, African and Middle Eastern languages.

SoftNI IRD-STB Simulator

Specialized software module for simultaneous quality control of multiple subtitling files or multiple subtitles pre-encoded in ready-to-air masters.

Preview and QC pre-encoded subtitles and subtitling files:

- ▶ Pre-encoded subtitles - Recovers subtitle data in multiple languages previously encoded or being encoded into the VBI of the video or into MPEG-2 streams.
- ▶ Subtitling files - stand-alone subtitling files before the encoding process or files that will be sent directly to the satellite encoder via play-list or automation systems.
- ▶ Can be customized to display the subtitles over the video exactly as they will appear on IRDs, set-top boxes, or closed caption or Teletext decoders at viewers' homes.
- ▶ Allows you to create subtitled videotape copies for quality confirmation or demo purposes.
- ▶ Supports Unicode.

SoftNI CaSat M4-ST MultiTransmitter

Real time transmission of bitmap and text based subtitling and closed captioning files in dozens of languages and multiple standards simultaneously to multiple channels from a single computer!

- ▶ Powerful multipurpose, multi-language, multi-channel, multi-standard, multi-platform subtitling system.
- ▶ Generates and transmits high-quality, highly-readable subtitles for cable/satellite/terrestrial broadcasts.
- ▶ Subtitles can be transmitted simultaneously via ASI, Ethernet, and serial interface.
- ▶ Highly compatible - with video encoders, Muxes, IRDs and set-top boxes that comply with DVB, Motorola-SCTE-27, and DirecTV® standards in HD and SD.
- ▶ Also compatible with most HD/SD character generators, professional video cards, and closed caption and Teletext encoders.

SoftNI CaSat M4-ST also incorporates different Operation Modes:

- ▶ Automation Control: the subtitling files, stored in a file server, are triggered by commands from the automation system and are synchronized with the video via time code.
- ▶ Pre-encode: subtitles are encoded off-line into digital files using SoftNI's Digital Subtitling Suite or into the VBI using SoftNI's CaSat MultiEncoder. During transmission, the subtitles are recovered, transcoded, and transmitted to the desired standard(s). This ensures perfect synchronization of the subtitles. It is not necessary to interface with file servers, automation systems, playlists, or be connected to a time code reference!

Transmit highest-quality subtitles and closed captions in multiple languages simultaneously to dozens of channels from one single computer!



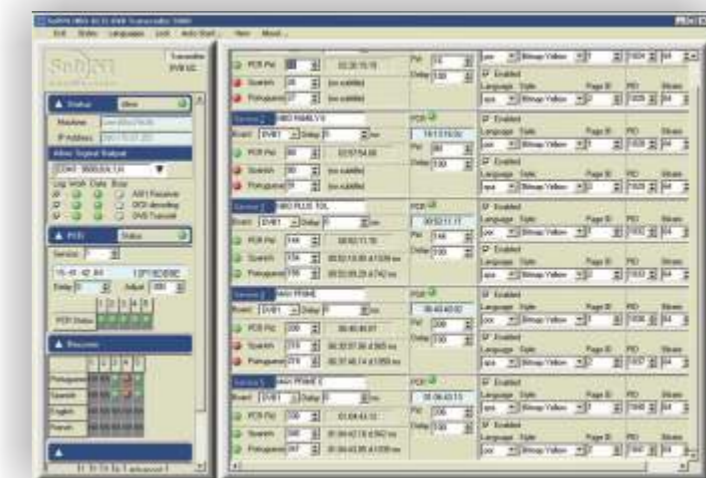
SoftNI Multi-File Converter

Converts virtually any pre-existing subtitling and closed captioning files, and cinema scripts, into EBU (.STL) standard or SoftNI (.SUB) file formats.

- ▶ Converts existing electronic dialog scripts, text translations, subtitling, closed captioning and Teletext files from the most widely used file formats to EBU (.STL) European standard files and to SoftNI subtitling files (.SUB)
- ▶ Powerful application for use in many types of subtitling applications and cable/satellite transmissions.
- ▶ Allows your CaSat Suite™ equipped facility to use existing subtitling files and to receive new files in virtually any format, prolonging the useful life of other subtitle

SoftNI CaSat MultiTranscoder

Transcodes and/or re-times single or multiple incoming subtitle data streams simultaneously from/to various standards for cable, satellite, terrestrial transmissions.



- ▶ New specialized system to recover, transcode, and retransmit subtitles from/to different standards
- ▶ DVB, Motorola DigiCipher®, DirecTV®, HD Vanc data, closed captions and Teletext all supported
- ▶ Subtitles can be recovered and burnt into the video signals
- ▶ Incoming subtitle data can be re-timed or delayed to compensate for delays in the retransmission system.
- ▶ Allows broadcasters and cable companies to rebroadcast incoming TV channels that carry subtitle information.
- ▶ Can transcode subtitling and closed captioning data from dozens of channels simultaneously, via Ethernet, ASI or serial port, from a single computer!

SoftNI Subtitling FEDS NEW

Failure Early Detection System™

SoftNI FEDS™ is a comprehensive set of modules ("agents") that QC all the steps of the subtitle transmission process. From the complete analysis of stored subtitling files to the verification if the subtitles are shown synchronized with the audio at downlink.

Warning messages can be displayed in a dedicated workstation and/or sent to a network warning system. SoftNI FEDS may also display the subtitles over the video in multiple windows and languages for easy visual quality control. Information only available by request.