



iCap Encoder



We Know Security Matters.

The iCap Encoder is the market leading SDI closed caption encoder for a majority of broadcast and cable networks throughout North America. In addition, our encoders have been implemented by a number of high security governmental and business institutions where it is trusted to provide quality closed captioning services for confidential meetings and internal communications. This document shines a light on the common network security concerns we've designed our tried and true technology around.

Protection from Unauthorized Parties Viewing Content Transmitted Over iCap

- ✓ All video and audio data is encrypted with time-sensitive rotating keys before leaving the encoder.
- ✓ Data on iCap can only ever be downloaded and decrypted by a vendor you have previously given explicit permission to within the iCap system.
- ✓ Your video and audio data streams in real-time to an approved EEG application and is not downloaded/cached to the vendor's computer permanently.
- ✓ As a precaution - Be sure to have appropriate confidentiality agreements with approved vendors.

Protection from Unauthorized Parties Sending Caption Data to Encoders

- ✓ Data on iCap can only be sent to your encoders by a vendor you have given explicit permission within the iCap system.
- ✓ You have access to detailed connection logs saying which vendor is in the encoder at all times, ensuring full accountability.
- ✓ All account traffic is encrypted with SSL.

- ✓ No data can be entered on the iCap system at all without using an approved client application that takes appropriate security precautions.
- ✓ For added security - vendors should agree to change operator passwords frequently.

Minimal Changes in Broadcast Firewalls

- ✓ iCap traffic is outbound only, so no inbound access ever needs to be granted.
- ✓ No public IP address or inbound port forwarding is required.
- ✓ All iCap traffic occurs out to a specific whitelist of server IPs published by EEG, and occurs over a small group of outbound ports.

Protection Against Hacking and Viruses

- ✓ Secure Linux OS with regular patches issued based on publicly known security bugs (support subscription req. to maintain access to patches.)
- ✓ Security options can be set to require a passcode and/or physical access to the unit front panel to overwrite any configurations.