



Secure Session Encryptor SSE

Hardware *AES* & 3DES Encryption over Network or Dial-up

- ✓ **Hardware AES & 3DES**
- ✓ **Works via Network or Telco**
- ✓ **Portable USB based**
- ✓ **Replaces SSH with hardware**
- ✓ **Centrally Managed**
- ✓ **Works with CDI's SST**



AES
ENCRIPTION

The Problem with Secure Shell (SSH)

SSH is a popular “freeware” protocol meant to replace Telnet by adding encryption. The problem is many implementations of SSH have a variety of security loopholes. This is compounded by the fact that anyone who has access to the internet can download an SSH client from hundreds of sites that offer them for free. SSH is software based. SSH provides no authentication, this must be provided by a separate mechanism.

The Solution - Secure Session Encryptor - SSE

SSE is a hardware based Advanced Encryption Standard (AES) or Triple DES encryptor that attaches to the USB port on any workstation or laptop. With a CDI proprietary client installed (SST), the SSE encryptor can encrypt/decrypt all data that is passed to it through the USB port . Each encryptor has a unique ID along with a 128 bit encryption key and utilizes NIST certified AES & Triple DES encryption. The device has tamper switches which zero all sensitive data in the event the device is opened. The SSE will generate a unique session key for each session established with a remote device and is USB powered so no power adapter is required.

Security Management

DDM, Distributed Database Manager, can manage an unlimited number of SSE's remotely as well as all other CDI products from a single workstation. This eliminates the need to update each unit individually when there is a database change. Audit trail reports are extracted automatically.

Deployment

The SSE is a portable device that can be used from portable Laptops or fixed workstations on a network or from remote dial locations. The device can be keyed remotely from a DDM manager.

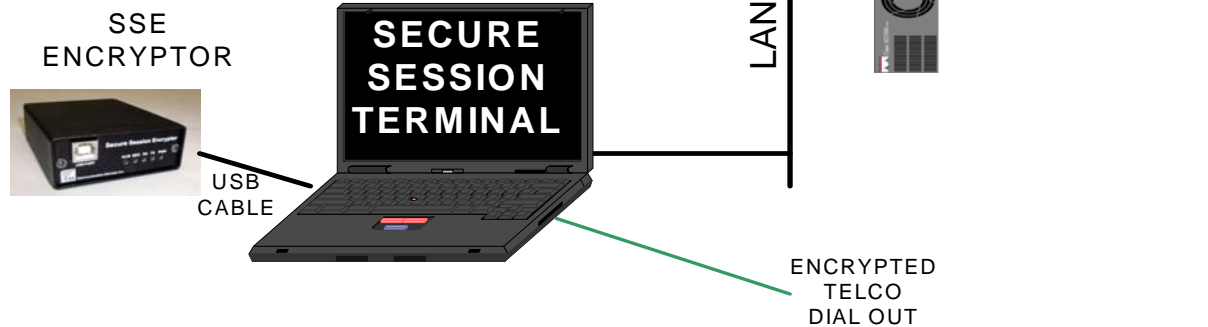
SST SECURE SESSION TERMINAL DIAGRAM

IN THIS DIAGRAM A TECHNICIAN USES THE SST TO ACCESS REMOTE CDI DEVICES EITHER THROUGH THE INTERNET OR DIAL UP MODEMS.

THE SST USES AN INTERNAL USER BUILT DATABASE TO FIND OUT THE IP ADDRESS AND/OR PHONE NUMBERS OF THE REMOTE DEVICES THROUGH A USER FRIENDLY GUI.

ALL CRYPTO TAKES PLACE IN THE HARDWARE SSE

THE SSE ACTS LIKE A SLAVE AND IS USED TO ENCRYPT AND DECRYPT THE SST DATA VIA AN ATTACHED USB CABLE



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Secure Session Terminal

Secure Session Terminal is an MS/Windows based client software that works in conjunction with the SSE encryptor to provide encrypted Telnet and dial-up to remote CDI devices. The SST itself contains no security. All the security is contained and performed in the hardware SSE. The SST will work in clear text mode by itself without an SSE connection. The SST prompts the user to enter IP addresses or phone numbers for remote connections. Communication ports and other parameters are also configurable. The SST communicates with the SSE via a USB connection.

Secure Session Encryptor Indicators

- POWER**- Indicates power from the USB cable
- TX** - Indicates SSE is sending data to computer
- RX** - Indicates SSE is receiving data from the computer
- SEC** - Indicates the SSE has established a Secure Session and is in encrypted mode
- ALM** - Indicates an Alarm condition has occurred (No Key loaded)

Part Numbers

SSE -100	Secure Session Encryptor - comes with Secure Session Terminal and USB cable.
SST - 100	Secure Session Terminal may be ordered on its own.
USB - 300	USB cable 3 feet.

Specifications

Length	3.5 Inches (8.9 CM)
Width	2.7 Inches (6.9 CM)
Height	1.1 Inches (2.8 CM)
Weight	6.0 Ounces (180 Grams)
Power	USB powered 100ma
Misc.	NIST AES & TDES, FCC PART 15, CE