

DigiSAFE FReeway

- Encrypts Frame Relay Networks
- Support full duplex speeds up to 2048Kbps
- FIPS 46-3 Triple-DES Encryption
- FIPS 140-1 Equivalent
- Diffie-Hellman Public Key Management



Operation and Main Features

DigiSAFE FReeway, a frame relay encryptor, offers high-speed encryption for clear text communication in synchronous, full duplex and point-to-multipoint networks. It encrypts every DLCI (Data Link Connection Identifier) link with a different encryption key to offer the highest level of security. The default setting for all DLCI link is in secure mode unless otherwise switched to clear mode.

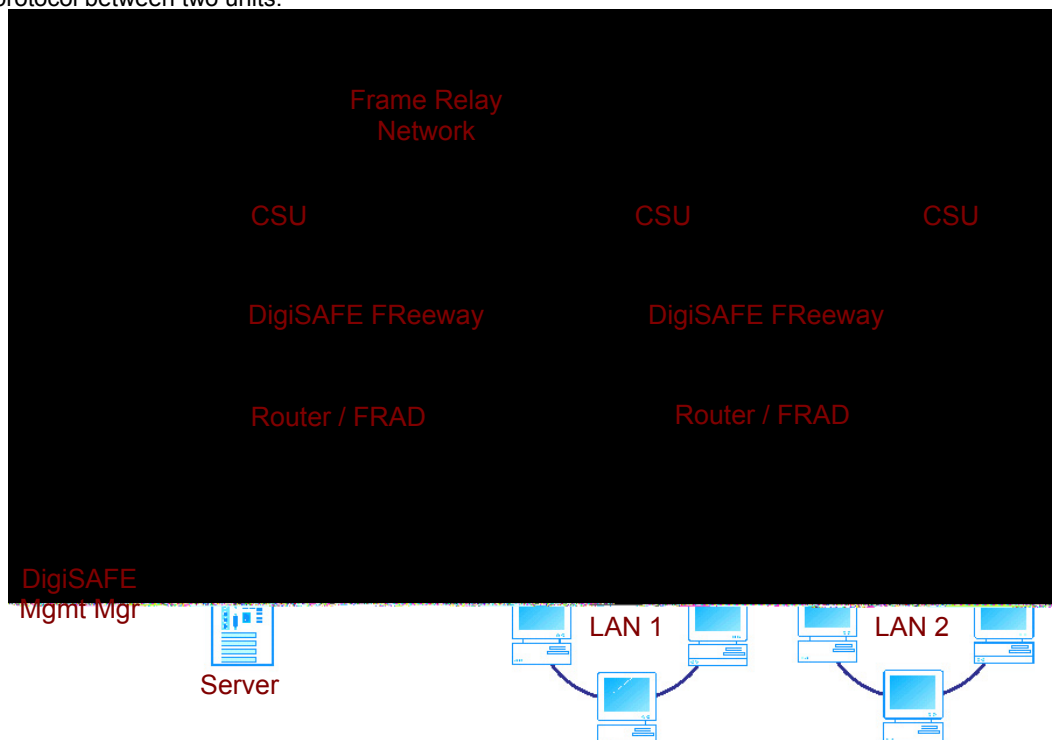
The session keys are established at pre-set interval by means of Diffie-Hellman key exchange and triple-DES encryption algorithms to meet ANSI X9.42 and FIPS 46-3 requirement respectively.

DigiSAFE **Key Management Centre (KMC)** is proprietary software that generates Diffie-Hellman Public Key Agreement domain parameters and other critical security parameters for each encryptor.

Session keys are established by using 1024 bits Diffie-Hellman key exchange and 168 bits triple-DES to meet ANSI X 9.42 and FIPS 46-3.

Once the unit is configured, **DigiSAFE FReeway** requires minimum supervision and operator intervention. In the event when crypto synchronization is lost, cipher feedback mode ensures the recovery of self-synchronization.

Before deployment, **DigiSAFE FReeway** is to be configured by the central management software hosted on a PC station via serial port connection. Subsequently, on deployment, configuration could be executed via in-band secure protocol between two units.



Specifications

Security

- Tamper Resistant Enclosure
- Anti Tampering Erasure Mechanism

Network Protocols

- FRF.1, FRF.3 (RFC 1490), ITU-T I.122, Q.922, Q.931, Q.933
- Permanent virtual connections only

Cryptography

- 168 bit 3DES Algorithm (FIPS 46-3)
- Key Diversity 2^{168}

Operating Environment

- Operating temperature: 0°C to +50°C
- Relative humidity: 0 - 90 %
- FCC Part 15, Subpart J (Class A) EMI / RFI requirements

Electrical & Mechanical

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