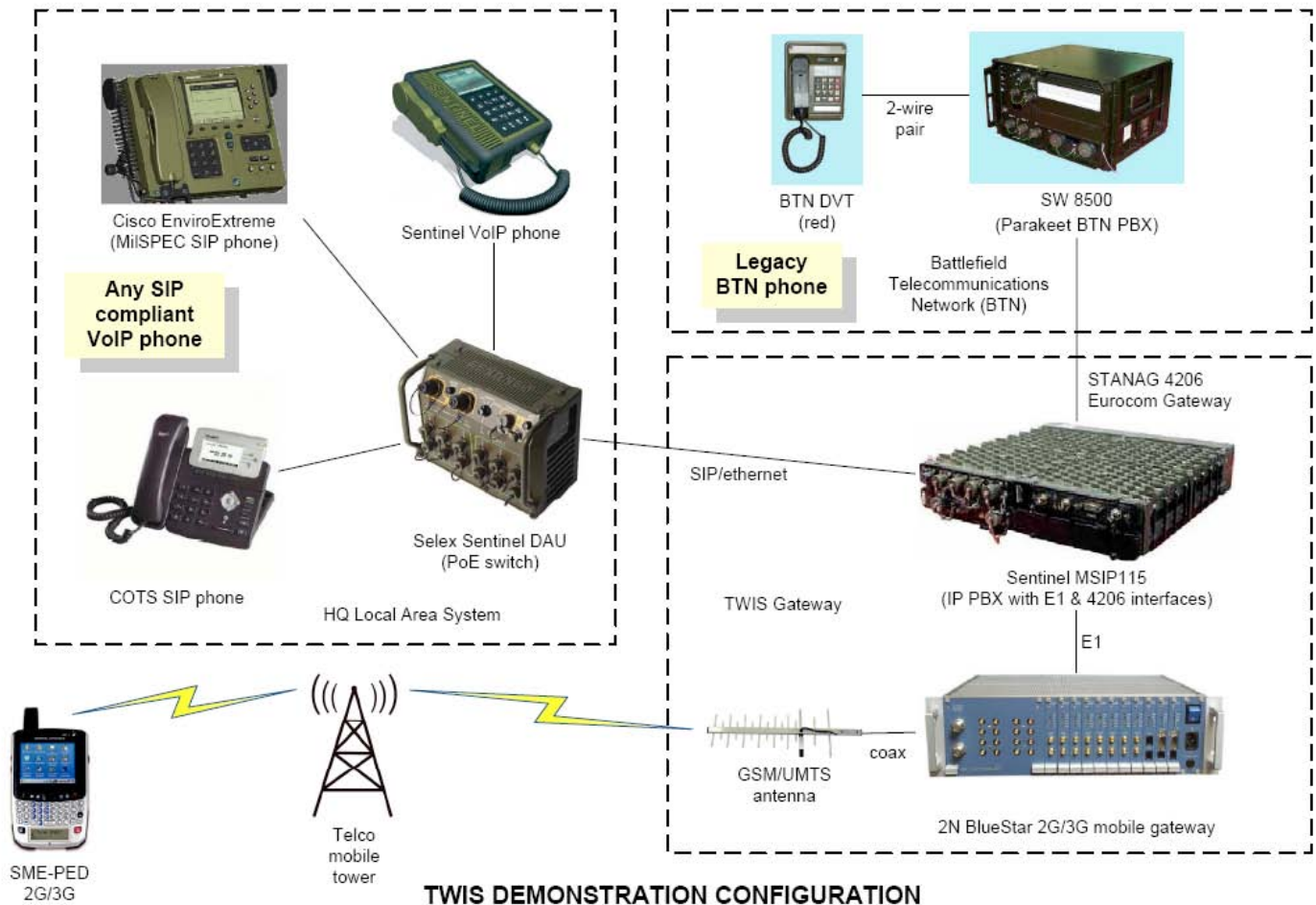


Tactical Wireless Interface System





TWIS DEMONSTRATION CONFIGURATION

The Tactical Wireless Interface System (TWIS) is a mobile secure voice capability integrated with the Parakeet Battlefield Telecommunications Network (BTN). It provides a standalone 2G/3G mobile telephony base-station with gateway and interworking functions to enable mobile users to communicate securely or non-securely with military or commercial voice and data networks.

Remote connectivity can be implemented either via a standalone connection to an existing BTN deployment, or via an independent backhaul communications link to Defence and civilian environments in Australia. TWIS can also support both secure and non-secure mobile data when combined with a data inter-working function in the back-end. TWIS supports either large or small deployments. Large deployments have the option of a high capacity local encryption/decryption capability. Small deployments can minimise cost by utilising a common anchor site for encryption/decryption of services for deployed TWIS subscribers. by utilising a common anchor site for encryption/decryption at the deployed gateway.

Key features

- Secure wireless connectivity to local and remote Parakeet BTN deployments
- Secure wireless connectivity to the DSN
- Non-secure calls supported including DVN/PSTN connectivity
- 200 subscriber capacity
- Standalone remote deployment
- Able to utilise commercial 2G/3G mobile infrastructure where available
- Ruggedised COTS/MOTS equipment
- Non-Government Organisation (NGO)/civilian mobile phones can be supported
- Dialed number translation to simplify dialling between networks
- Standards compliant interface architecture supports VoIP integration

Specifications

- 2G GSM/EDGE to support current Type 1 accredited SCIP secure phones
- 3G UMTS/HSPA to support civilian phones and future Type 1 phone migration to 3G
- Secure handset based on General Dynamics Edge© SME-PED
- SCIP encryption using SME-PED and multi-channel Ectocryp Black©
- Supports CVSD (BTN), G.711a (VoIP/E1), AMR (UMTS), GSM & MELPe(SCIP) codecs

Technology evolution

- COTS interfaces will support integration with any post-BTN fixed voice telephony
- Migration to 4G/LTE
- Migration options from CSD SCIP to HSPA (MELPe or G.729D, SCIP over V.150 MoIP or VoIP over HAIPE)

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