SnapCell

Snapcell addresses this growing threat by providing a convenient cellular encryption unit to enable secure GSM-based communications, across all 4 commonly used frequencies, using a commercially available off-the-shelf (COTS) GSM handset.

Unlike other existing secure communications solutions, which require the purchase of a dedicated – and expensive – cellular handset, Snapcell is an accessory for the popular Sony-Ericsson brand of mobile phones. By simply attaching Snapcell to the standard GSM handset the subscriber or field agent can enjoy discreet military-grade security, with no degradation in voice quality, and no change in subscriber behavior. The use of the Snapcell is completely undetectable by the mobile operator, the unique device identity remains unchanged and secured calls are logged as standard data session on the network.

Key Benefits

- Accessory for over 30 models of Sony-Ericsson mobile phones
- Highest levels of security (FIPS 140-2 level 2)
- Transparent and seamless user experience.
- Support for GSM across all 4 frequencies.
- Efficient implementation of encryption algorithms, minimal impact on battery life.
- Flexible integration with standard handsets, expands the possibilities for enterprises
- Support for Snapshield's patented point-to-mulitpoint technology
- Used on a standalone basis, or as part of managed secured network solution
- Advanced management features
- Remote update and maintenance capability

Snapcell™ Features

- High level encryption process, supporting unique session keys (FIPS 140-2 Level 2)
- End-to-end secure voice communications over GSM networks.
- Attaches to all Ericsson and Sony-Ericsson phones supporting HSCSD or CSD
- Seamless operation.
- Minimal management required.
- Ultra light weight.
- External key management tool (optional)
- Authentication and access control capabilities.
- Multi user Group Authentication using SHA-1
- DTMF over secure channel
- Audio and visual notification of security level

Technical Specifications

Media Encryption	AES 256-bit key
Key agreement algorithm	Diffie-Hellman 1024/2048-bit key
Voice Compression	G.723.1 6.4 Kbps
Data Rate (Host to/from accessory)	88 Kbps
Transmission Rate	Network depended
Network Data Mode	Transparent and Non-Transparent protocols
USB Connectors	Standard mini-USB
Power Consumption	17.5µW Standby, 280mW max
Dimensions	40 mmX 22 mm X 7 mm
Weight	11g
Temperatures	Operation: 0 to +60°C Indoors
Phones Supported	Attaches to all Ericsson and Sony-Ericsson phones supporting HSCSD or CSD
Security Standard	NIST FIPS 140-2

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