Gita Technologies

NEXTELEMENT

Tactical **iDEN** Interception System

NEXTELEMENT interception system opens a new era in iDEN ("Nextel") tactical monitoring

About Gita Technologies Ltd.

Gita Technologies Ltd. unravels the often complex communications security challenges confronting government agencies and high-end enterprises. With its uniquely innovative and custom-designed solutions, the firm addresses both sides of the equation - information security and intelligence production.

That is why intelligence units, homeland security agencies and related organizations seeking uncommon creativity and multidisciplinary expertise have been helping Gita Technologies become a leader in its field since its founding in 2000. Alongside cutting-edge technology, research and development, Gita provides premier go-to problem solving for communications security and signals intelligence.

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Captured Communications, Off-the-Air Interceptions

NEXTELEMENT is a tactical interception and monitoring system for iDEN's ("Nextel") **voice calls**, **push-to-talk** (PTT)/direct connect, **short message service** (SMS) and **multimedia messaging service** (MMS) communications.

NEXTELEMENT captures the air interface between cellular phones and Base-Transmission-Stations (BTS) using an advanced passive, off-the-air technique. The system is thus invisible to both the target and cellular providers.

NEXTELEMENT intercepts both the downlink and the uplink, providing a synchronous and uninterrupted voice playback processed using state-of-the-art signal processing methods and algorithms.

NEXTELEMENT is specially designed for agencies demanding a high standard in real-time information gathering, storage and data extraction.

- ■ Defense Forces
- ■ Intelligence Units
- ■ Law Enforcement
- ■ Homeland Security
- ■ Correctional Services

NEXTELEMENT enables predefined lists of intercept targets, specifying names, phone numbers, and network-specific parameters such as IMEI, IMSI, etc.

NEXTELEMENT features keyword-based searches in SMS or MMS messages, including system alerts for operator-defined keywords identified in real-time communications.

NEXTELEMENT voice and text communication intercepts are stored in a managed database for on-demand audio replay. All data can be conveniently exported to any standard format for post-mission data retrieval and research.

NEXTELEMENT is operated by a powerful, flexible and user-friendly application for real-time monitoring, audio playback, database querying, maintenance and data exporting.

NEXTELEMENT supports both remote and local operations, as well as multiple operators. By efficiently dividing the work between several users in real-time, traffic capacity can be significantly increased.

Main Features

Clear voice, PTT/direct connect, SMS and MMS

Real-time information gathering, storage display and data analysis

All iDEN frequencies, Vocoders and network features

Up to 20 simultaneous calls

Up to 10,000 preconfigured targets

Designed for law enforcement and intelligence agencies

Operator-defined alerts

Scalable

Portable

Specifications

Interception method	Passive, off-the-air
Data monitored in real time	Voice calls PTT/direct connect SMS MMS Protocol information & relevant metadata
Frequency coverage (uplink and downlink) MHz	806-825, 851-870 896-902, 935-941
Capacity	≤ 20 concurrent calls
Modes of operation	**Search mode:** Interception and production of all traffic regardless of origin **Target mode:** Interception and production of calls only from predefined targets **Semi-target mode:** Interception of all traffic regardless of origin (metadata level only). Content production (voice and text) of calls only from known predefined targets
Number of operators	1-2 (interoperable)
Operator's application	Display of BTSs information Display of real time Nextel traffic Management of targets Database access, display and export Export voice and PTT/direct connect calls to standard formats Maintenance, monitoring, logs and statistics System configuration
Database	Microsoft SQL Server
User interface operating system	Windows 7 Professional
Remote operation	Yes
Portability	Ground portable
Weight	23kg
Dimensions (typical)	L478mm X W355mm X H165mm
Temperature	Operating 0 ºC to 50 ºC Storage -5 ºC to 60 ºC
Humidity	≤ 95%
Electrical (peak, typical)	Wattage: ≤ 600 Input voltage: 90 ~ 264 VAC Input frequency: 47 ~ 63Hz Input current: 8A/115VAC 4A/230VAC

Gita Technologies Ltd reserves the right to amend specifications in the light of continuing development without prior notice.