



NetSecure

Cellular Network Intrusion Detector

Cellular phones are one of the continued biggest growth industries world-wide, and the reliance on them is ever more important. Information of all kinds is conveyed by cell phones, including voice, text messaging, email and internet data. Whilst these devices are highly immune to interception, it is not uncommon for law enforcement agencies to use spoof base station technology to invoke a dialogue with a target handset in order to identify and ultimately locate such devices.

The cellXion NetSecure product is designed to provide Government agencies with a method of identifying the correct operation of mobile handset identification technology and detect its unauthorised use in sensitive areas.

NetSecure works by monitoring signalling information from legitimate GSM and UMTS base stations in an area and building a "digital fingerprint" of a normal operating environment. This information is analysed over time to establish normal operating heuristics and if a change is detected a warning or alarm state is established.

As well as having the ability to detect the correct functioning of mobile handset identification technology, NetSecure can be used to identify potential espionage risks for cell phone users who are in sensitive areas such as:

- Embassies
- Government buildings (such as police headquarters)
- Military installations

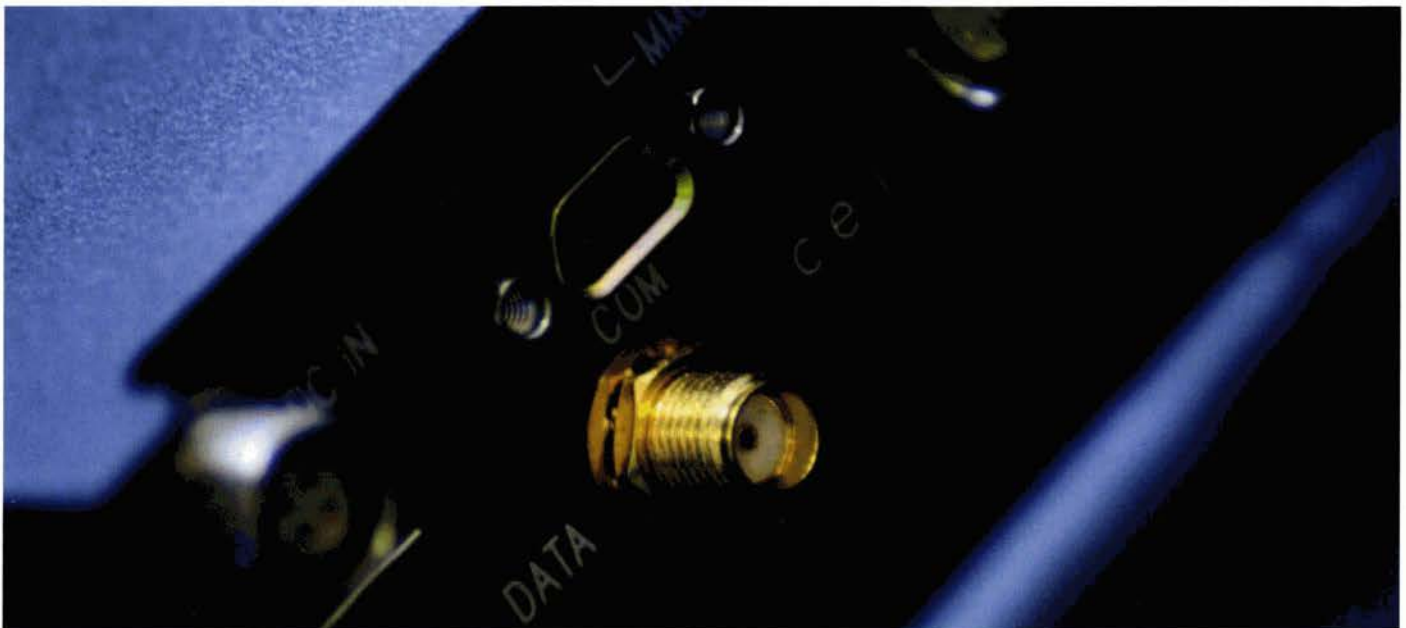
The NetSecure unit is highly portable, requires low power, and also features a GPS interface for accurate time stamping of events. The GPS engine is also used as a timing reference to further improve the accuracy of event detection particularly in the UMTS domain.

A web interface is used for the configuration of NetSecure devices, and SMTP/SMPP interfaces are used for the propagation of alarms to either email addresses or a mobile device via SMS. The detection routines are fully automatic and require no user interaction.



KEY FEATURES

- Self contained high-speed GSM/UMTS wideband digital receiver
- Selectable technology modes: GSM only, UMTS only or both (CDMA under development)
- Available in 900/1800/2100 or 850/1900/2100 frequency variants
- All networks detected, analysed and continuously monitored
- Self-Teaching algorithms to learn local cellular environment
- Highly adaptive change recognition software
- Minimum user interaction required – true “power and go” functionality
- LED status “comfort/alarm” indicator
- Three level alarm status:
 - No Alarm
 - Warning (small change detected)
 - Alarm (highly probable detection of spoofing)
- Alerts for detection of event, and when event expires
- Alerts delivered by email through internal SMTP client or optionally by SMS via internal SMPP client
- Programmable via simple Web interface
- Web interface provides a visual indication of all cells and associated information in the area of operation
- Compact Size: 34mm x 76mm x 165mm
- Low power consumption



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