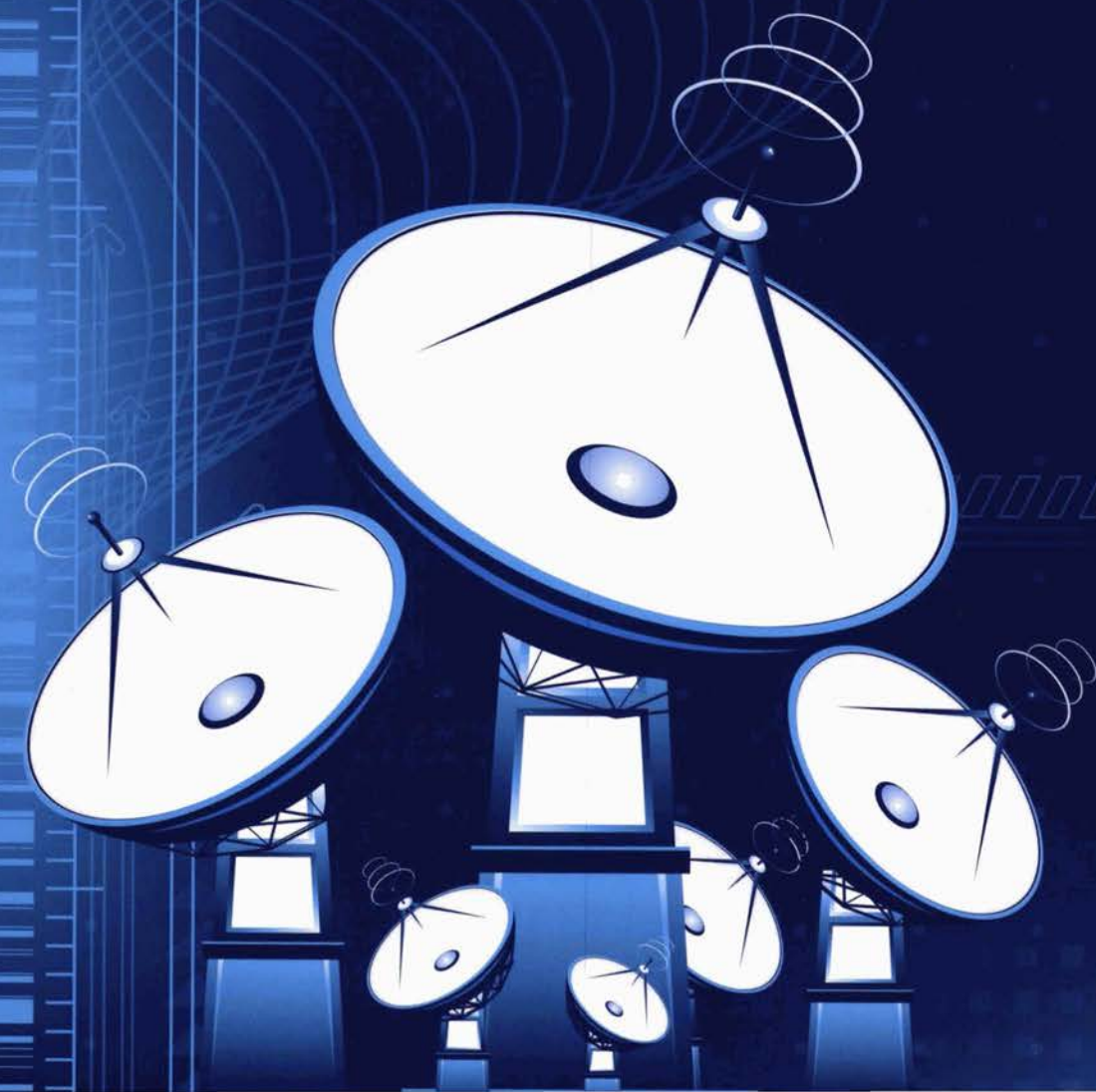




STRATIGN

STRATEGIC DEFENCE TECHNOLOGY

Satellite Monitoring System



Introduction

Satellites are now an essential part of today's communication technology, thus Interception and monitoring of satellite communications has become the most crucial task in intelligence agencies. Reliable, portable, robust solutions are critical to the success of any operation.

Stratign's Satellite Interception solutions are fully integrated monitoring and analysis platform that helps intelligence organizations and government agencies fight against national and international threats. Our Flexible, modular and upgradeable solutions provide effective monitoring of Voice, Fax, SMS, High-Speed Data Links and Data Calls.

The Stratign's Satellite Interception solution covers:

- C and Ku Band Trunk Monitoring System
- VSAT iDIRECT Monitoring System
- INMARSAT Monitoring System
- IRIDIUM Monitoring System
- ISAT Monitoring System
- Satellite Geo-Location System

C and Ku Band Trunk Monitoring System

Satellites are used by various telecommunication agencies for carrying trunks between countries, cities or simply between different exchanges. The Satellite Monitoring System has been designed for the purpose of providing National Intelligence Agencies with the capability to passively intercept all satellite signals (C / Ku band) of neighbouring countries or between cities from within their own country. The offered system is a powerful tool to monitor satellite communications in a passive mode. This integrated system has been designed to monitor compressed (DCME) and non compressed Telecom carriers from Intelsat, Eutelsat, Arabsat, Turksat etc. System provides Voice, Fax and Internet data sessions after decompression. The built-in SS7 analysis module performs automatic analysis on the carrier and displays its various identity parameters including originating point country, destination point country and call related information such as Date, Time of call, Called number, Calling number etc.

VSAT iDIRECT Monitoring System

Stratign's VSAT iDIRECT Monitoring System is designed for passive monitoring of star topology telecommunications networks that are built on the basis of iDIRECT iNFINITI (3000, 5000, 7000) and Evolution (X1, X3, X5, 8000) series equipment. The proposed solution is based on state-of-the-art technology that allows building a customized VSAT monitoring solution. Functionality of the System can be extended as per the Customer requirements. The System ensures full circle processing of VSAT network telecommunication traffic up to information message level including e-mail, ftp, VoIP and FoIP etc.

The system is capable of monitoring upto 10 digital carriers of D/MF-TDMA type existing in satellite transponder bandwidth of 72 MHz and 1 digital carrier from HUB station

INMARSAT Monitoring System

Stratign's Inmarsat Monitoring System provides automated interception and logging of Inmarsat calls. The System uses proprietary software based techniques to demodulate and decode the intercepted Inmarsat signals. It operates on L-Band frequencies (1.5 – 1.7 GHz) used by Inmarsat. Apart

from Voice, Telex, SMS, FAX and Data the system is capable of providing Called Party Phone Number (for session initiated by MES), MES ID, LES ID, Date and Time of Call, Spot Beam and Channel Number, Phone numbers of subscriber stations, Fax numbers of subscriber stations etc. This Multiple channel system is expandable up to 16 Channels. Modular architecture of the system allows further expansion. This system provides monitoring of the following Inmarsat B, Inmarsat C, Inmarsat M, Inmarsat mini - M, Inmarsat M4, Inmarsat BGAN S services.

IRIDIUM Monitoring System

Stratign's Iridium Interception and Logging System is designed to intercept and log communications from iridium phones operating within user-selected spot beams. The system is capable of logging all call related information including call content. The system monitors both uplink and downlink at L-band. It also monitors the L-band control channels to identify active spot beams and L-band channels. The System is capable of independently monitoring up to 32 physical channels. The demodulation of signal is carried out through the DSP based hardware.

The system is capable of demodulating digitally modulated signal in control channel, dedicated control channel and traffic channel (Signalling Information, Voice, Data, Fax, SMS etc). The system also supports burst signals GMPCS broadcast, control (dedicated and common) and traffic bursts. The system will also automatically classify Voice, Fax, Data and SMS. After classification they will be processed by their respective decoders.

System automatically logs the session information along with the audio in a database application which can be accessed by the operators simple GUI based client application.

ISAT Monitoring System

Stratign's Tactical ISAT monitoring, decrypting and logging solution, is capable of monitoring, deciphering and logging ISAT traffic including Voice, SMS and Fax form AcES, Isat Phone and Isat Phone Pro terminals. The system is designed to monitor ISAT communications on the L-Band uplink and downlink channels, the system is completely passive and does not interfere with the

normal communications and hence its presence cannot be detected. The ruggedized make and portability of the system makes it ideal for quick deployment. The user friendly GUI and simple system configuration, significantly reduces the training time required for the operator.

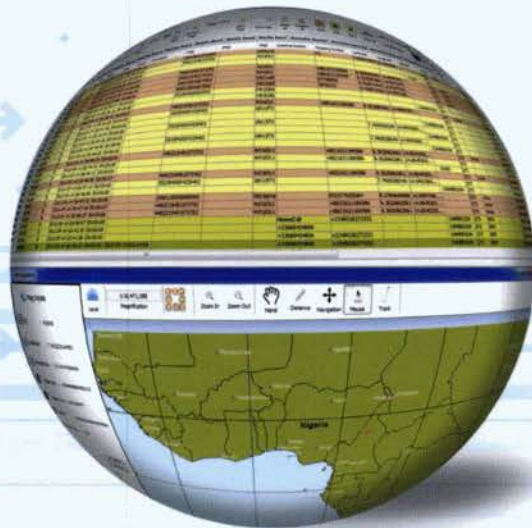
System uses state of art technology for deciphering of cipher algorithms used on ISAT network. System is using proprietary technology to scan the active spot beams in the coverage range of the antenna and after scanning provides the list of available active spot beams. Once the scanning is completed the operator can tune the system to spot beam of interest.

In addition to recovering call content (Voice, SMS and Fax), the system can also provide specific information about the call, such as numbers dialed or dialing number, IMSI, IMEI of intercepted subscriber, start and end times, call originators and areas contacted.

Satellite Geo-Location System

Stratign's Satellite Geo-location System is an accurate, fast, all-in-one solution for locating ground-to-satellite transmission sources. Powerful, flexible, and modular, the system uniquely blends complex science and algorithms with sophisticated hardware and DSP processing, resulting in an easy-to-use package for locating and identifying sources of unfriendly satellite transmissions, accidental interference, equipment failure, operator error, or intentional abuse.

The system receives signals from pairs of satellites and, using advanced signal processing, determines the time delay and frequency offset from the two signal paths, translating to a location on the surface of the earth.



About Stratign

Stratign FZCO is a UAE based company, providing High Grade state of the art Communication Intelligence solutions for defense and law enforcement agencies globally. Established in the year 2002, the company has a very strong presence in Middle East, South East Asia, Africa, Europe, Latin America and CIS countries. Continuous endeavor in the field of R&D with committed and highly skilled manpower, providing precise solutions for the challenges faced by the customers has made Stratign a well known entity within a short span of time. We are committed to provide competent technologies at an affordable price to defense and law enforcement government Agencies, we would like to offer you our strategic products on GSM, Thuraya Monitoring and Satellite Monitoring etc. The user-friendliness and capabilities of these systems have made them immensely popular among various agencies world wide. Stratign is uniquely positioned to offer latest technological, cutting edge mission-critical products systems and customized solutions for Communication Surveillance, Signal Analysis, Communication Security and Jamming Systems. All solutions meet the best quality or military Standards.



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