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Welcome to Elaman

Company Information

ELAMAN is a German based company established in 2004 with its headquarters in Munich/Germany.

Our aim is to provide comprehensive security products and solutions, technical consultancy and services as well as professional training for governments and security agencies.





Elaman GmbH and Gamma Group international - The Security Cooperation

Setup, Offices and Market

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Focus and Setup



Providing the highest quality operational
and technical training
delivered from a strictly ethical framework



Gamma TSE

Professional Surveillance Systems
Audio & Video Monitoring Products
Surveillance Vehicles



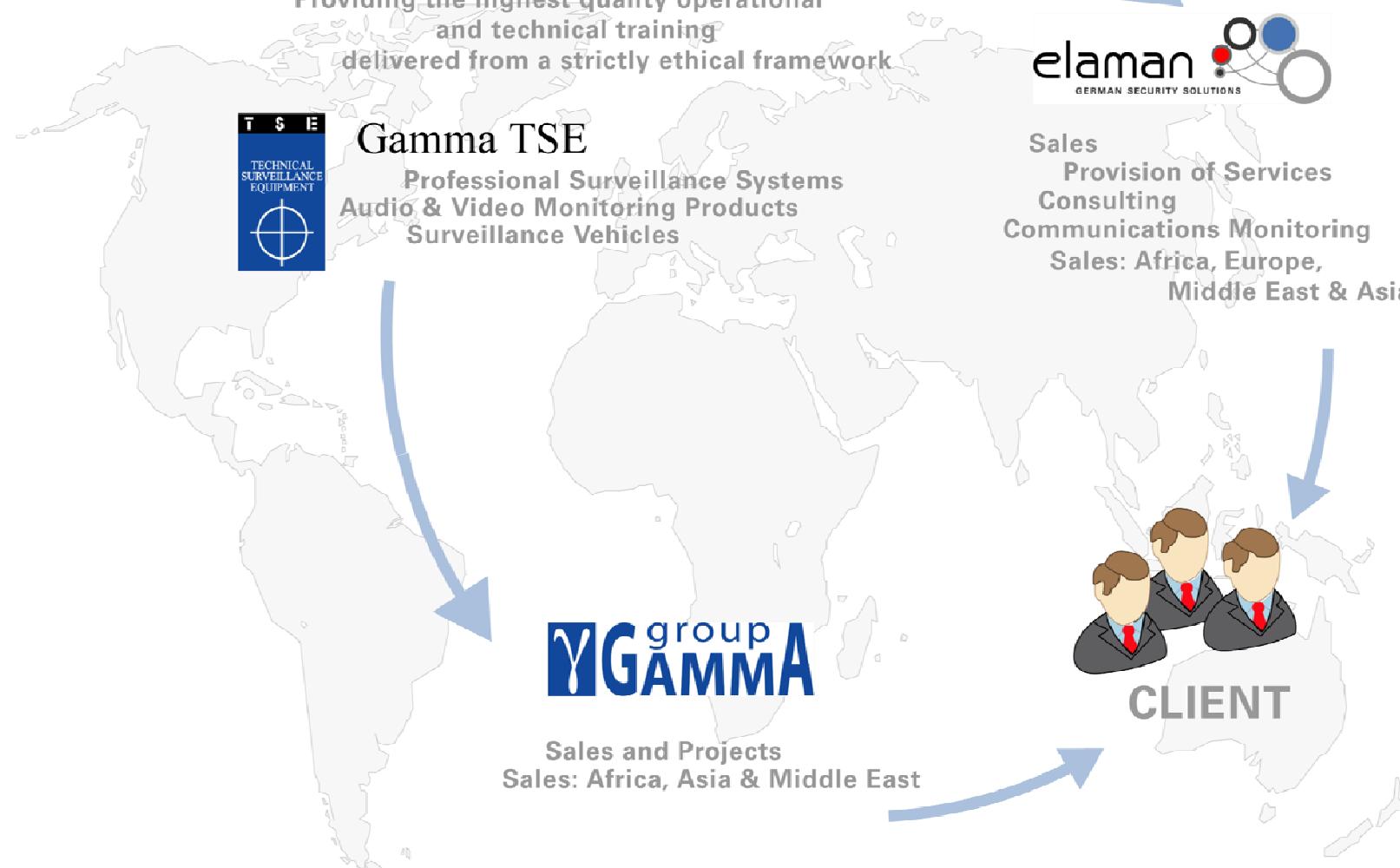
Sales
Provision of Services
Consulting
Communications Monitoring
Sales: Africa, Europe,
Middle East & Asia



Sales and Projects
Sales: Africa, Asia & Middle East



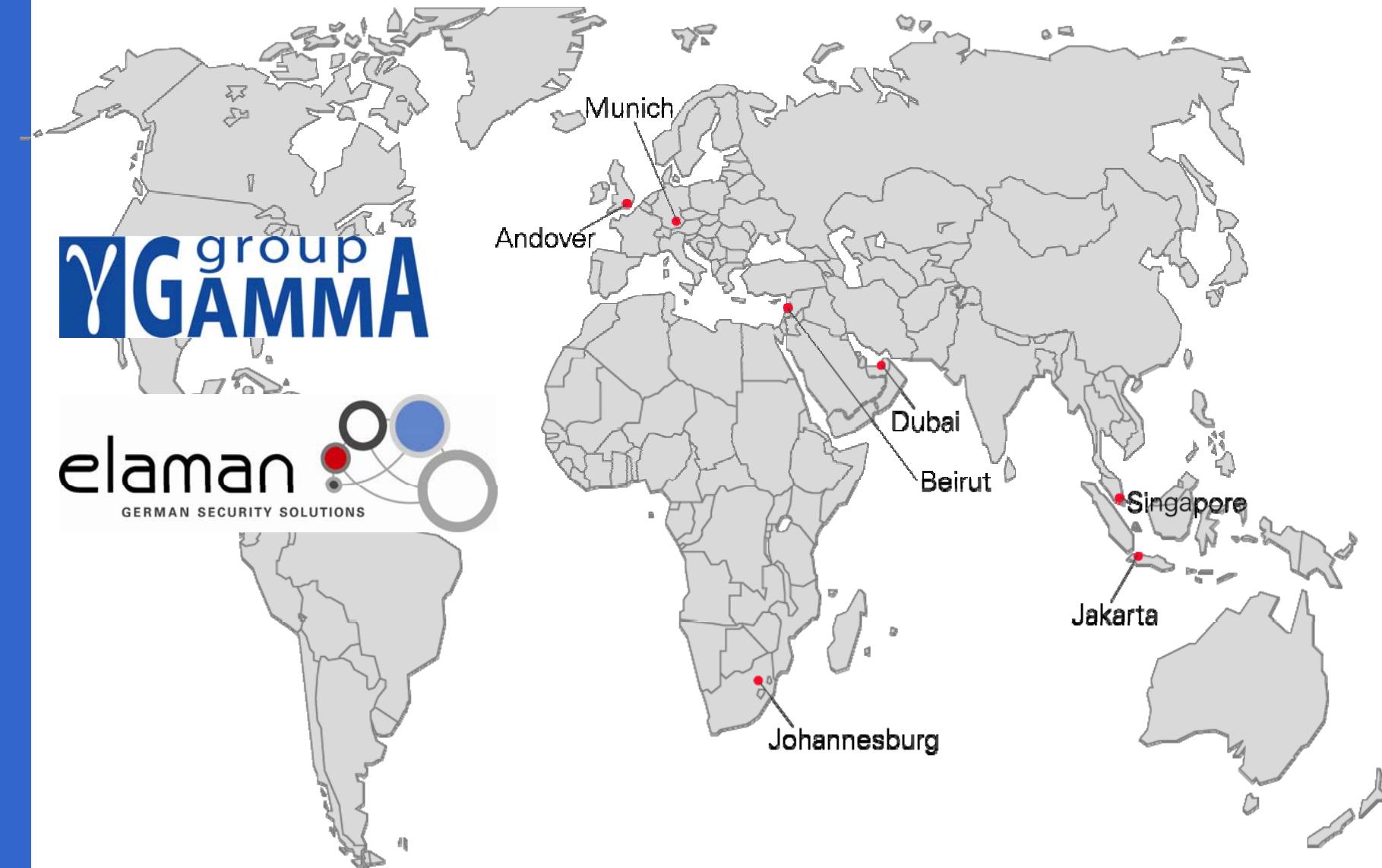
CLIENT



Offices Worldwide

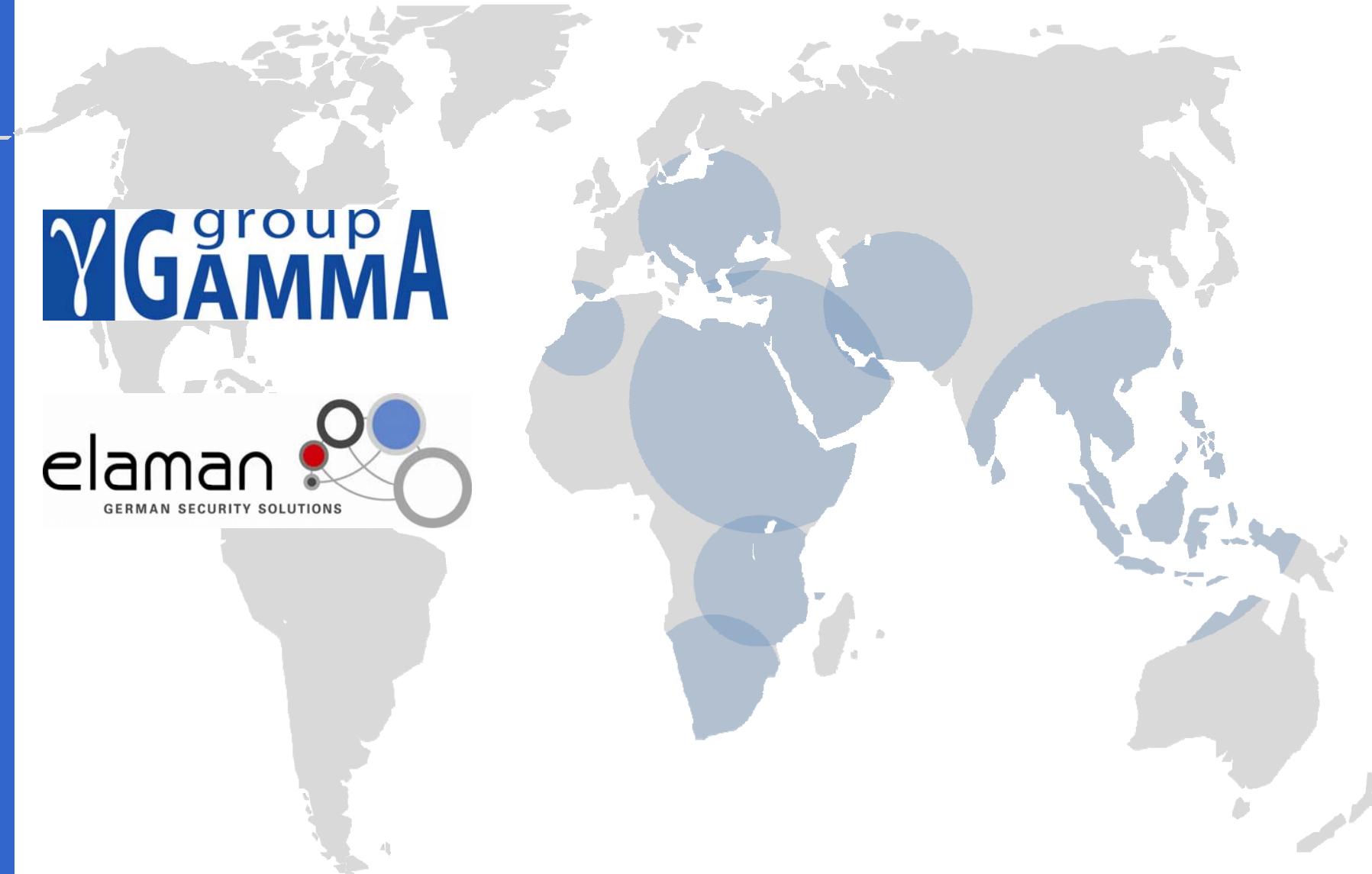


Y group GAMMA



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Market and References



Portfolio

- Communications Monitoring
- Special Surveillance Equipment and Solutions (Audio & Video)
- TSCM – Counter Surveillance Equipment & Training
- VIP Protection

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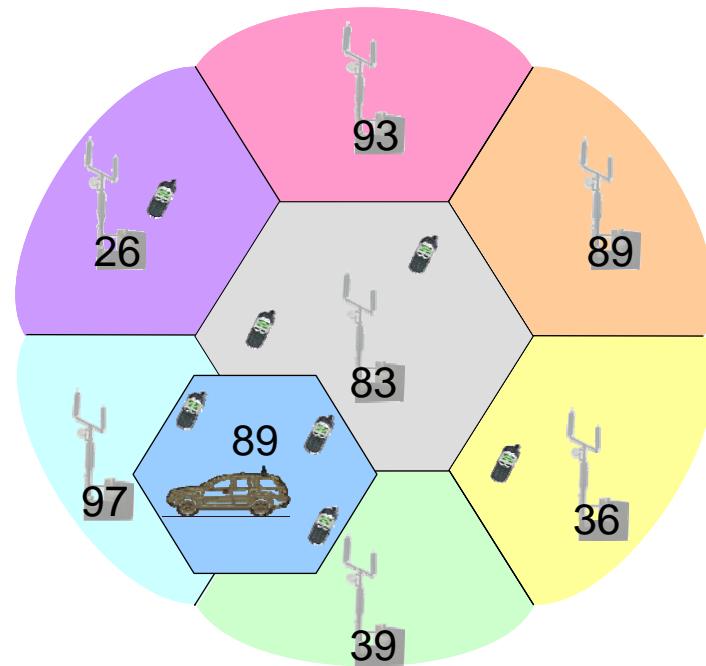
Communications Monitoring



● Overview: Communications Monitoring



- Active GSM/UMTS „off air“
Monitoring Systems, GSM-Locating & Finding



GSM / GPRS



Handheld DF

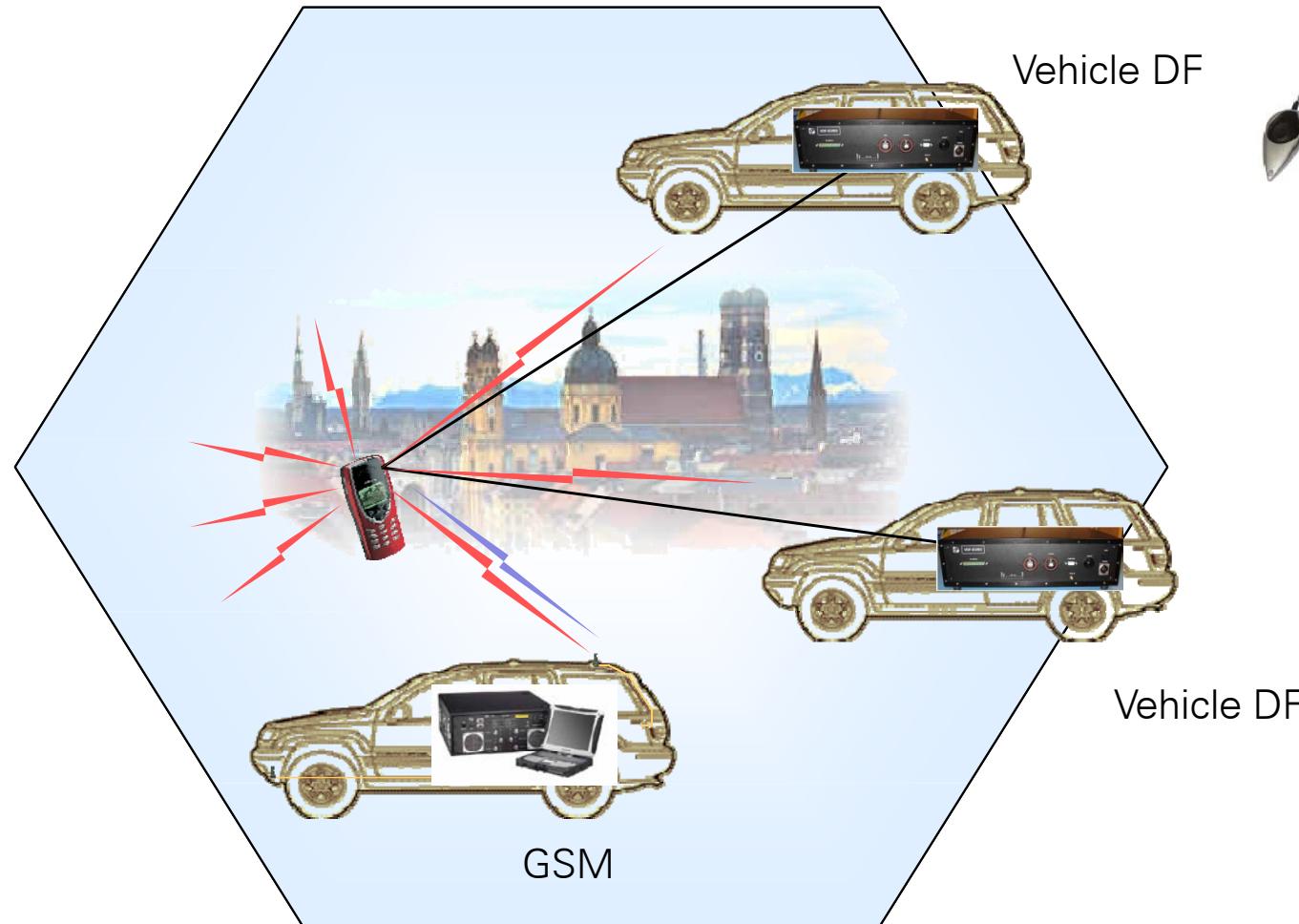


UMTS

- IMSI/IMEI catching
- Searching/Scanning & exact Locating
- Interception
- Blocking
- Manipulating

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Exact locating of targets via triangulation and silent call



Handheld DF

Vehicle DF

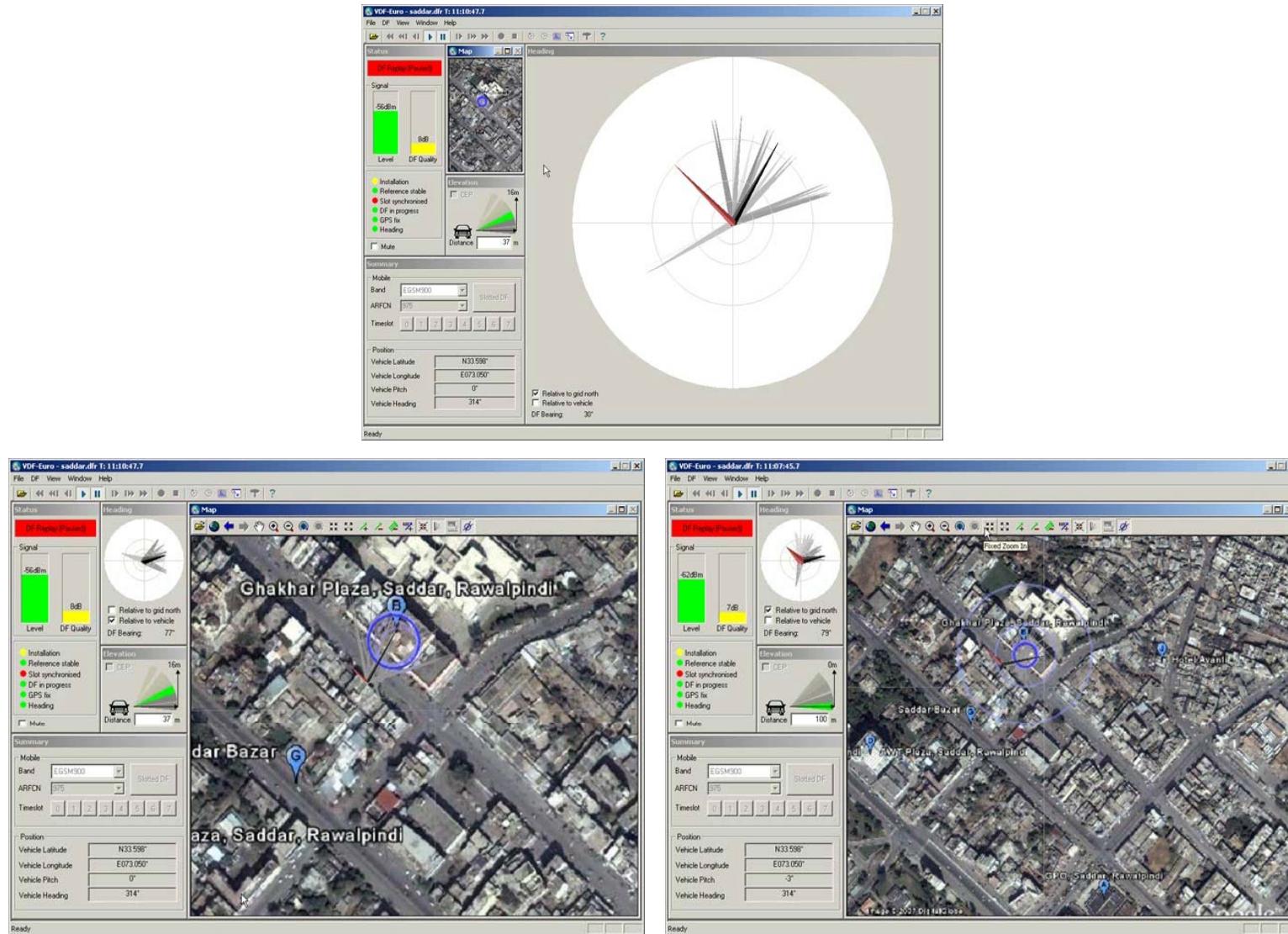
Vehicle DF

GSM

Communications Monitoring

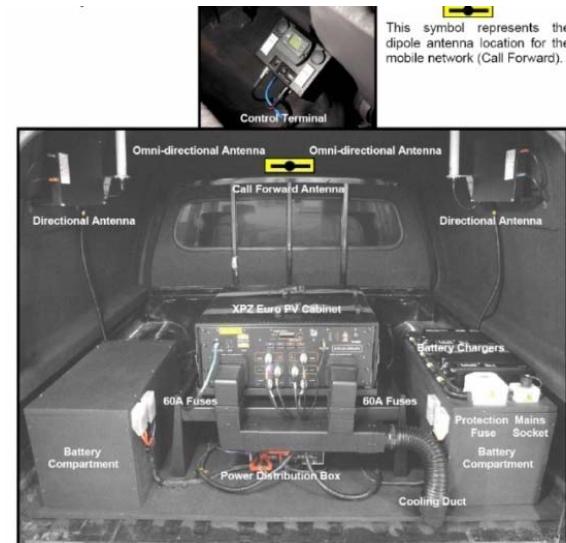
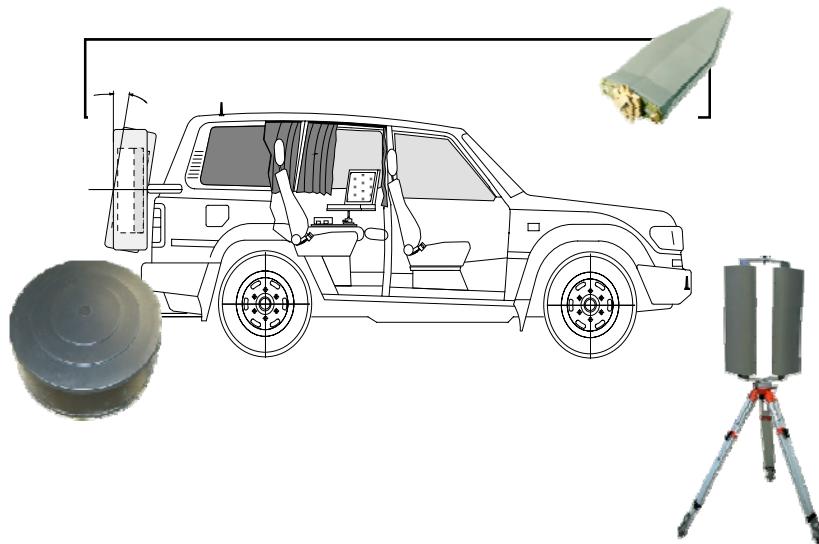
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Exact locating of targets via triangulation and silent call



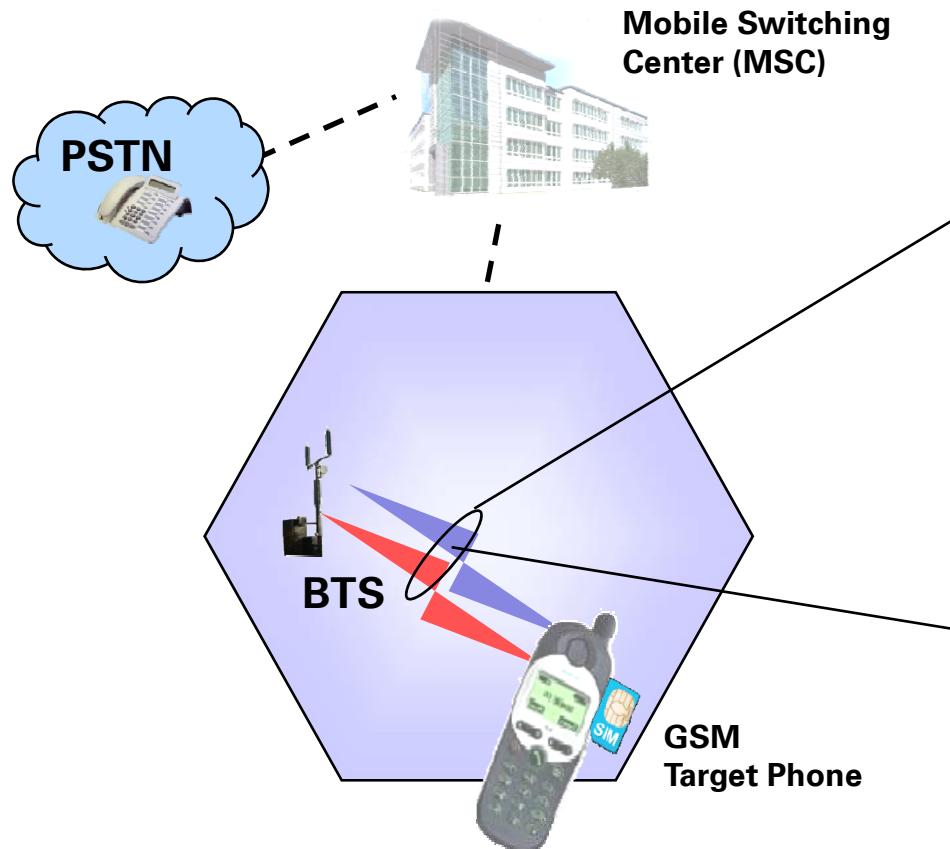
Communications Monitoring

Integration Example



- Passive & semi active GSM off air Monitoring Systems

GSM Infrastructure



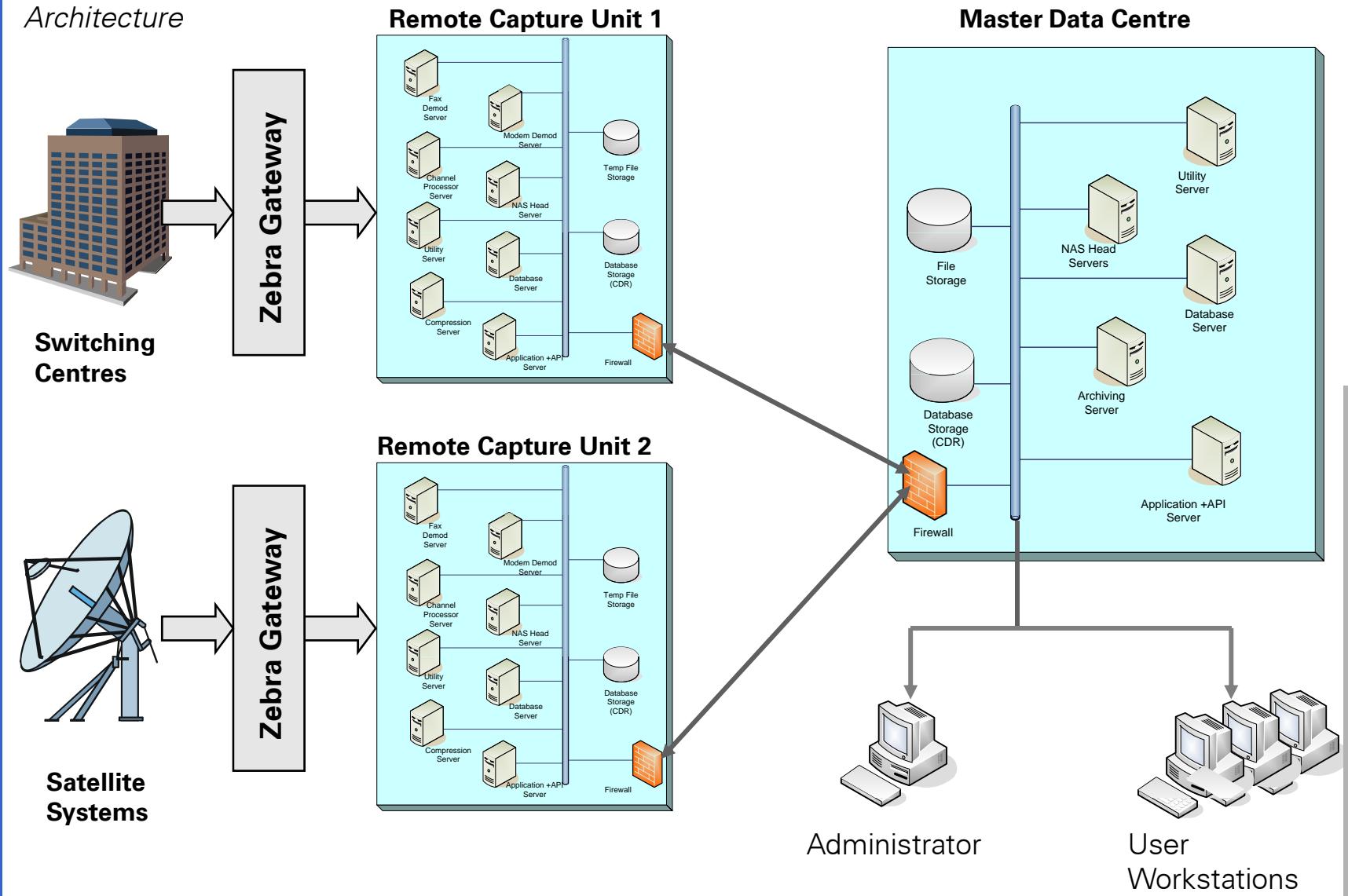
Passive
(decryption of 5.0 & 5.2)



Semi active
(decryption
of 5.0, 5.1 & 5.2)

- Passive Monitoring of Telephone and Trunk Lines

Architecture



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Communications Monitoring

Zebra Functionality

- Record all calls and filter
- Equally suited for TDM and IP networks
- Extremely high density and high capacity
 - 512 stereo E1s (1024 E1 inputs)
 - 300,000 bi-directional channels
- Scalable and distributable
- CIC mapping

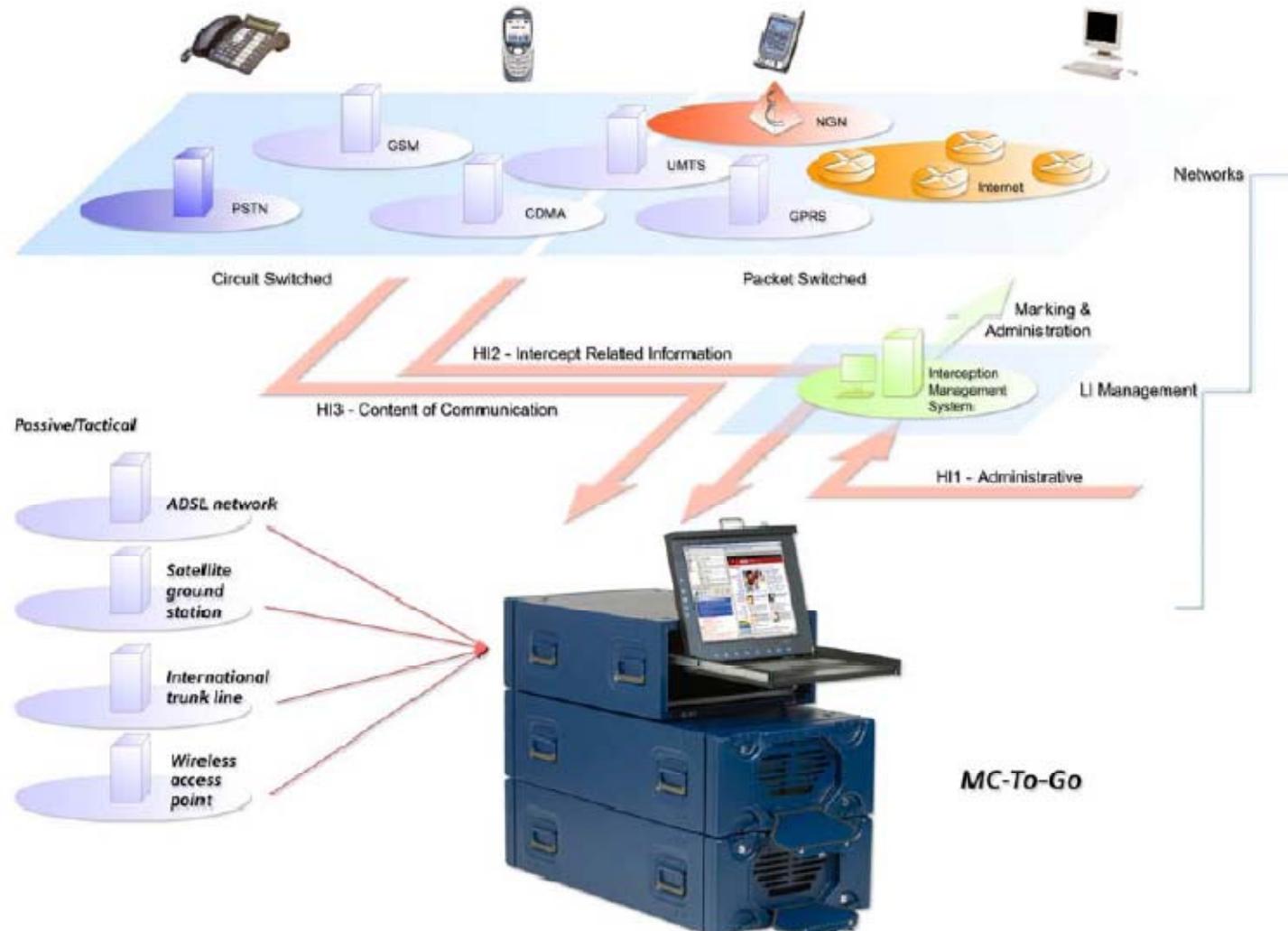


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4000 Ch



● Portable Monitoring Systems

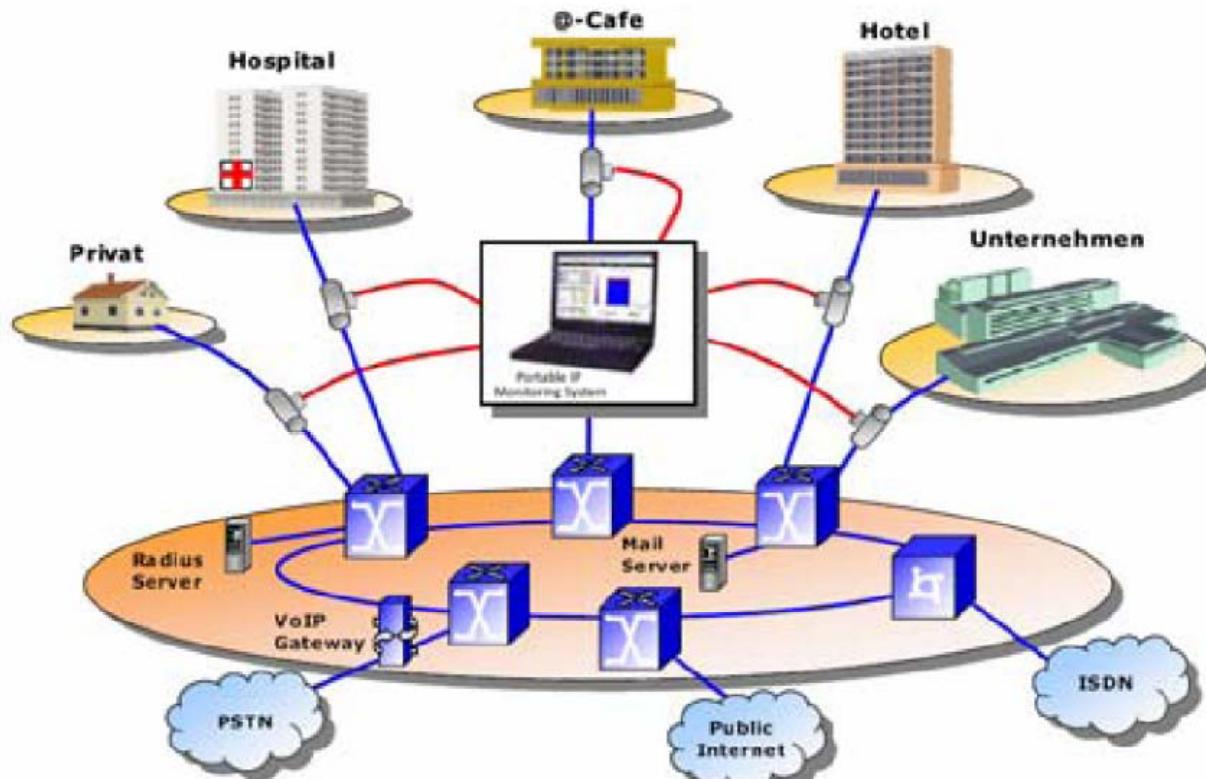
Portable Monitoring Center „MC to go“



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Communications Monitoring

Portable IP Monitoring



Communications Monitoring

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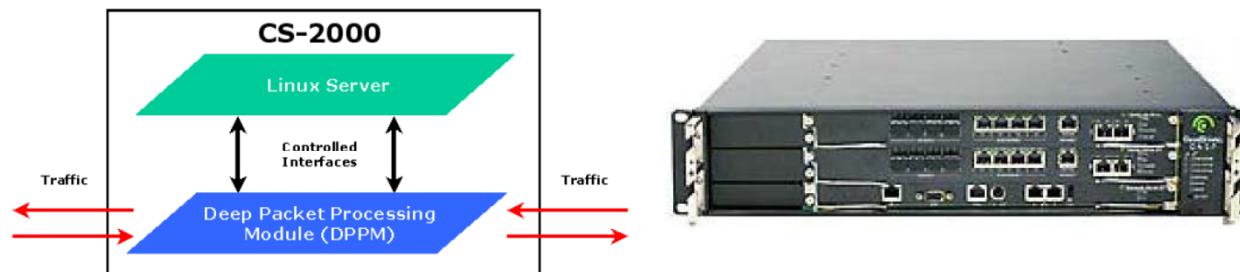
● IP Shaping & Blocking

CS2000

A Fully programmable device that's will be connected into IP streams (Ethernet, STM 1, STM4, STM16, etc.) to realize:

IP interception, shaping and blocking

- Interception of IP traffic
- URL Blocking
- Shaping of VoIP
- Blocking of VoIP and Skype



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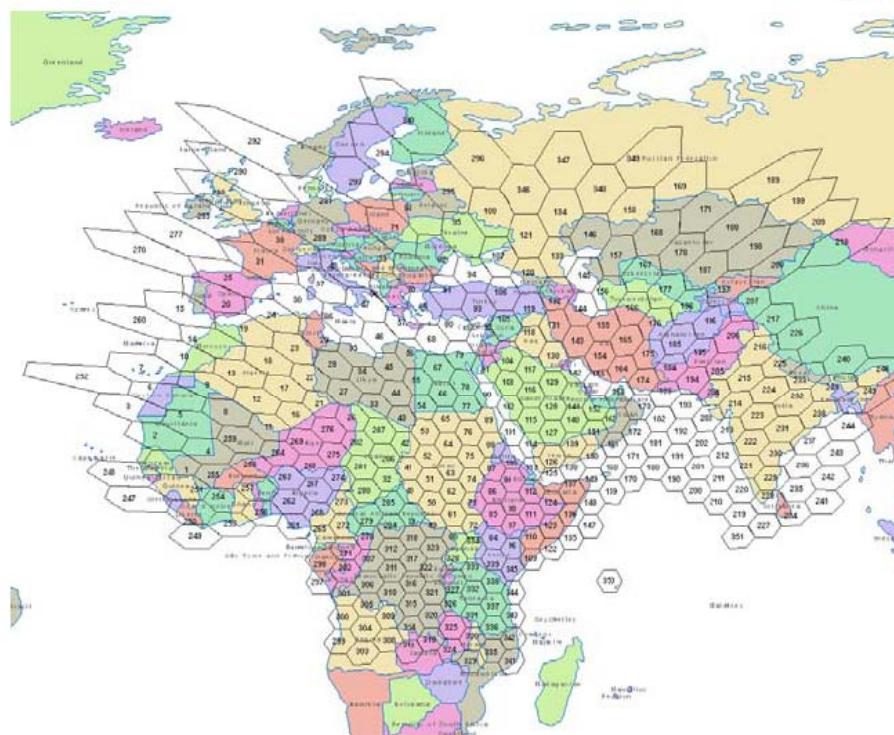
Satellite Monitoring

- Thuraya
- Inmarsat

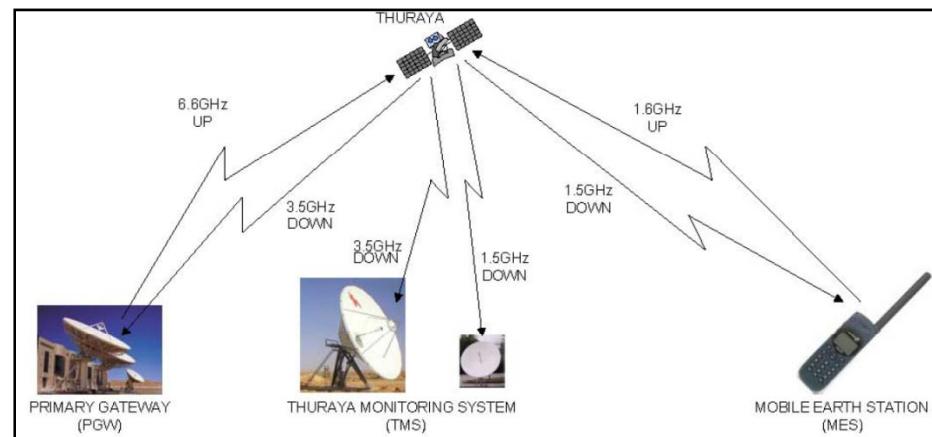


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Satellite Monitoring, Thuraya

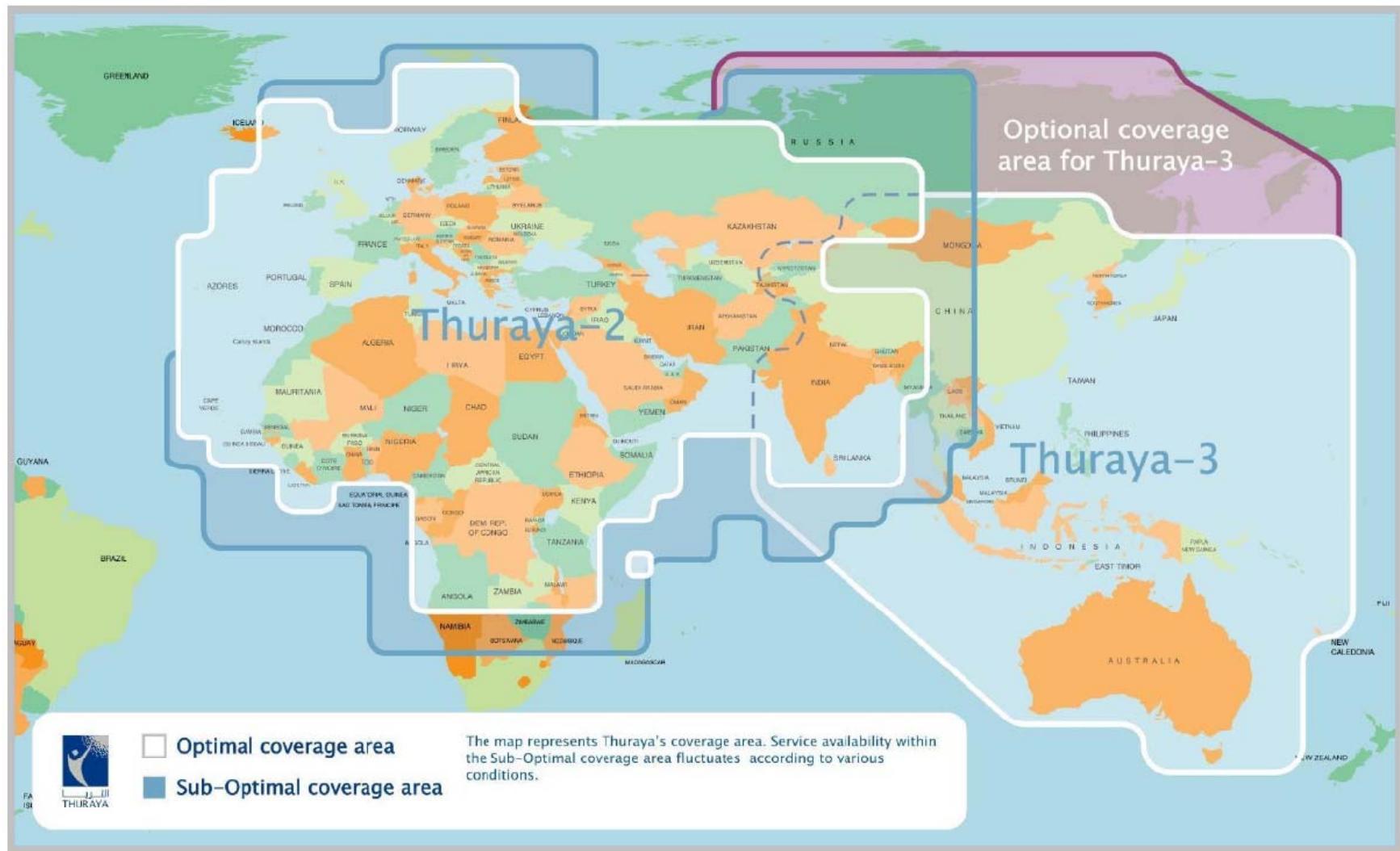


Map of the Thuraya Spotbeam Structure



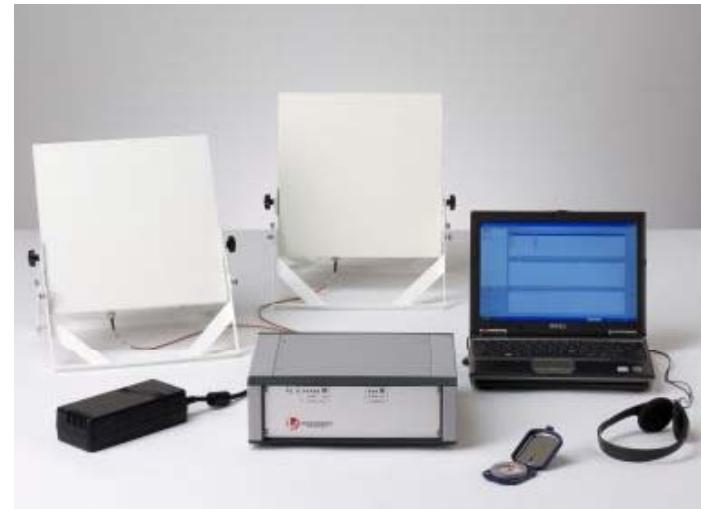
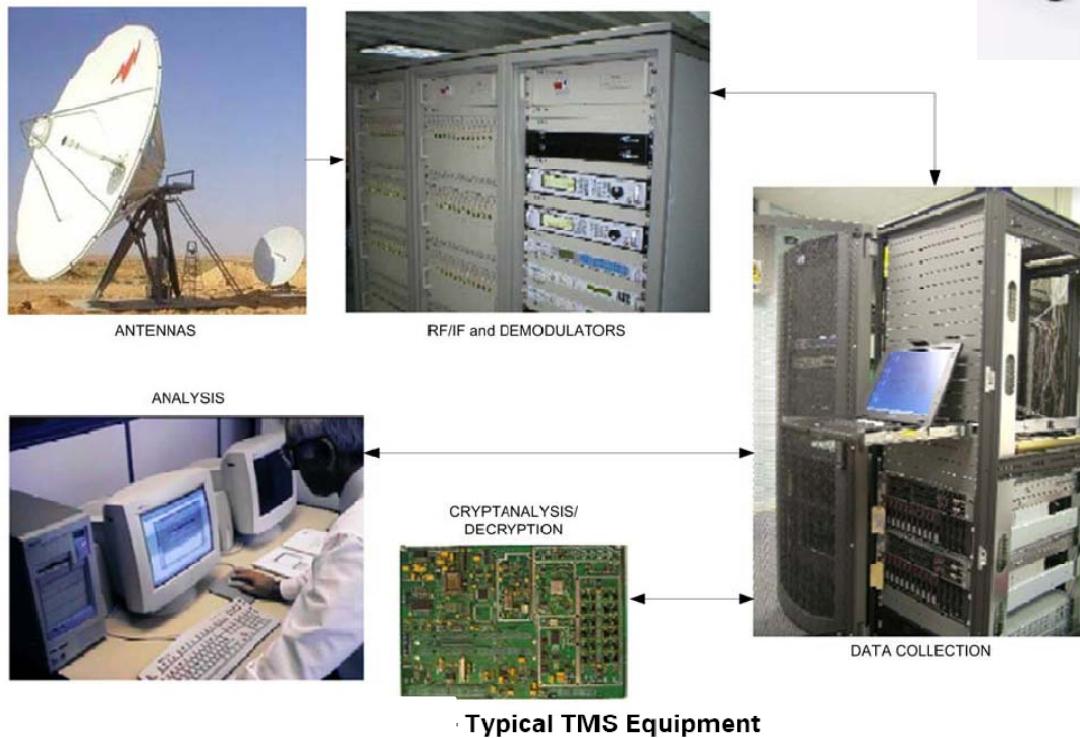
Satellite Monitoring

Thuraya Coverage map



Satellite Monitoring, Thuraya

Strategic Thuraya Monitoring System TMS



Marlin Portable Tactical Unit

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Satellite Monitoring, Thuraya

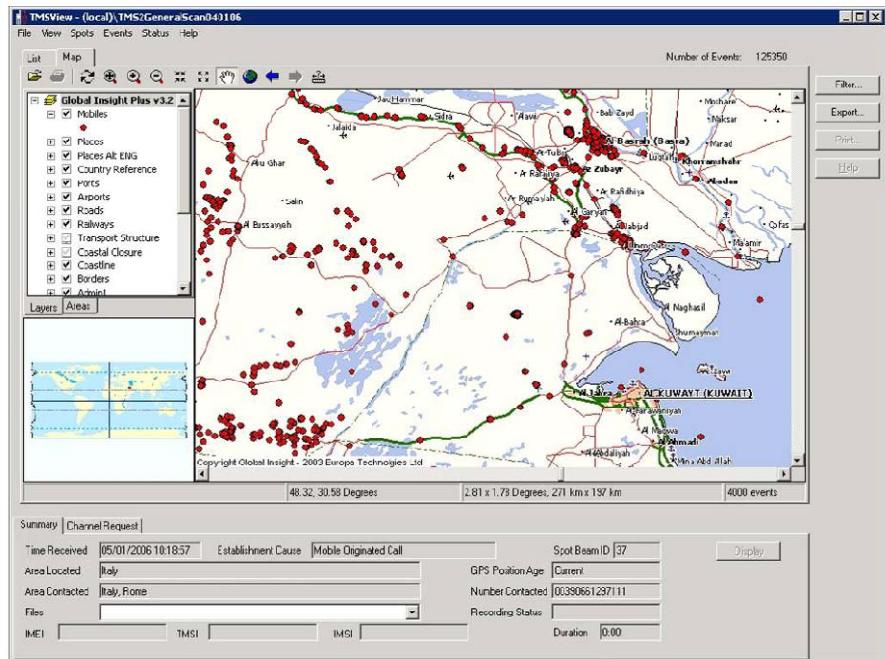
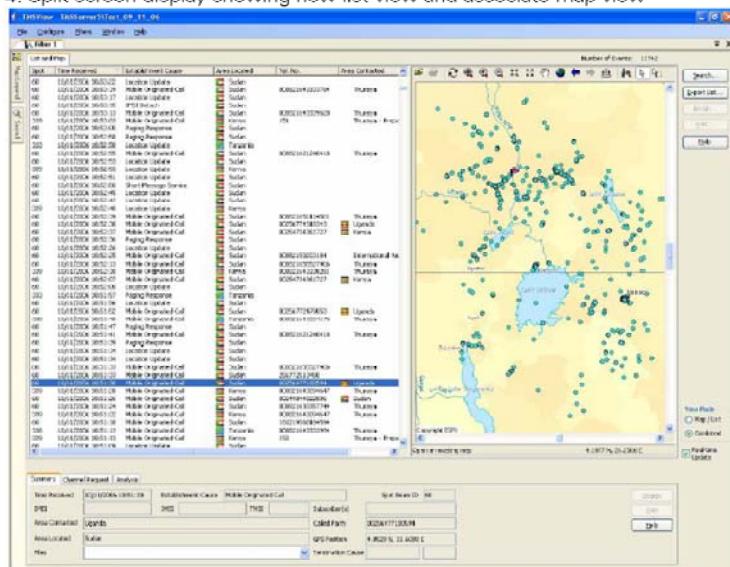
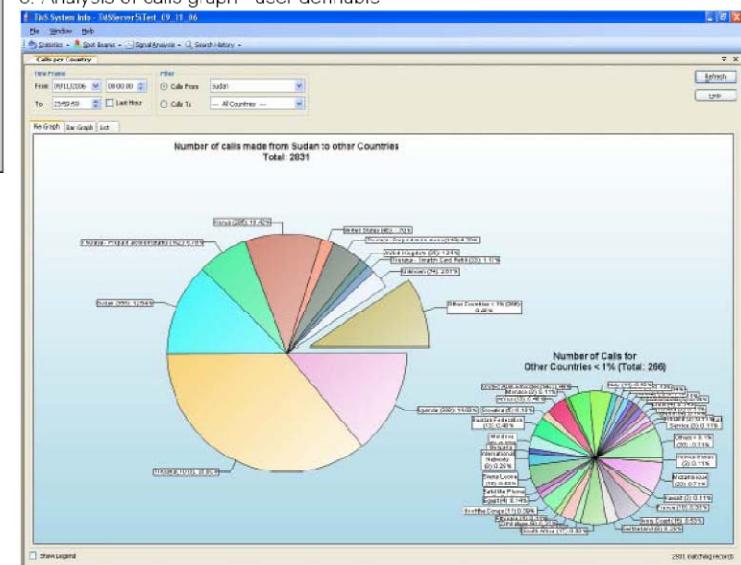


Figure 7 – Sample Map Generated from C-band Monitoring Data

4. Split screen display showing new list view and associate map view



6. Analysis of calls graph user definable



Satellite Monitoring



Satellite Monitoring, Thuraya Statistics



Thuraya Activities for one full day (24 hours) taken on 11.12.2007 for nearly all spot beams

Number of calls made from 92 countries

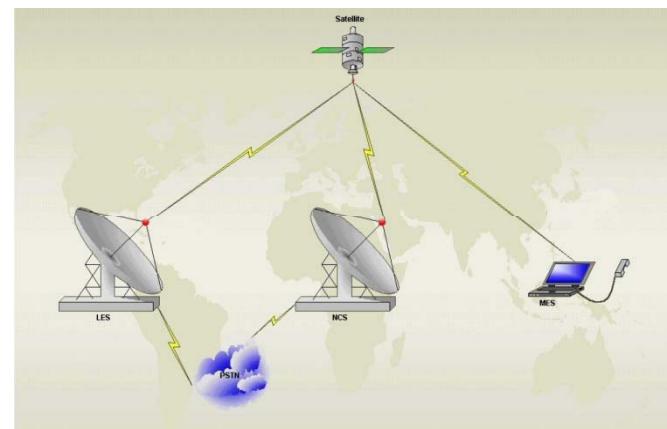
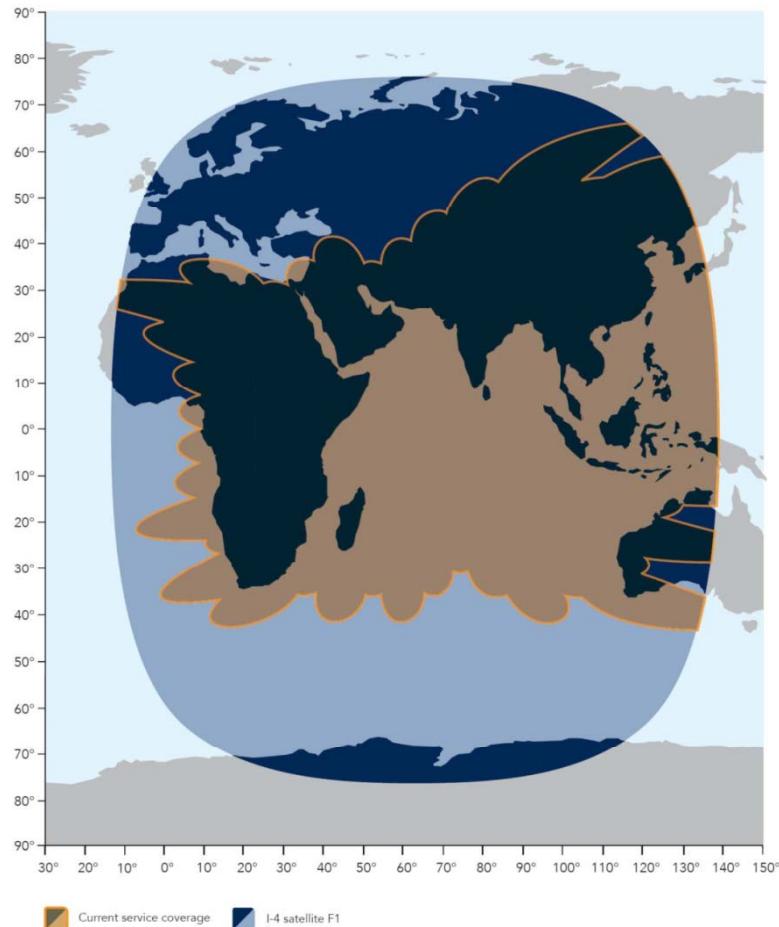
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Order	Country Name	Total Number of Calls
1	Sudan	139284
2	Afghanistan	115005
3	Iran	55436
4	Chad	47638
5	Pakistan	46715
6	Saudi Arabia	43170
7	Libya	34279
8	Iraq	20074
9	Algeria	15988
10	Mali	15414
11	Angola	13723
12	Unknown	9264
13	Yemen	8873
14	Sea	8502
15	Niger	8341
16	Kenya	7401
17	Central African Republic	6118
18	Mauritania	6044
19	Ethiopia	5640
20	Congo (Democratic Republic)	5224
21	Lebanon	4380
22	Nigeria	3726
23	Indian Ocean	3567
24	Denmark	3235
25	United Arab Emirates	2072
26	Egypt	2039
27	Somalia	1882
28	Oman	1614
29	Cameroon	1237
30	Congo (People's Republic)	1233
31	Western Sahara	1230
32	Uganda	1171
33	North Atlantic Ocean	1130
34	Kazakhstan	1039
35	Eritrea	953
36	Turkmenistan	852
37	Tanzania	767
38	Morocco	763
39	Tajikistan	707
40	Sri Lanka	682

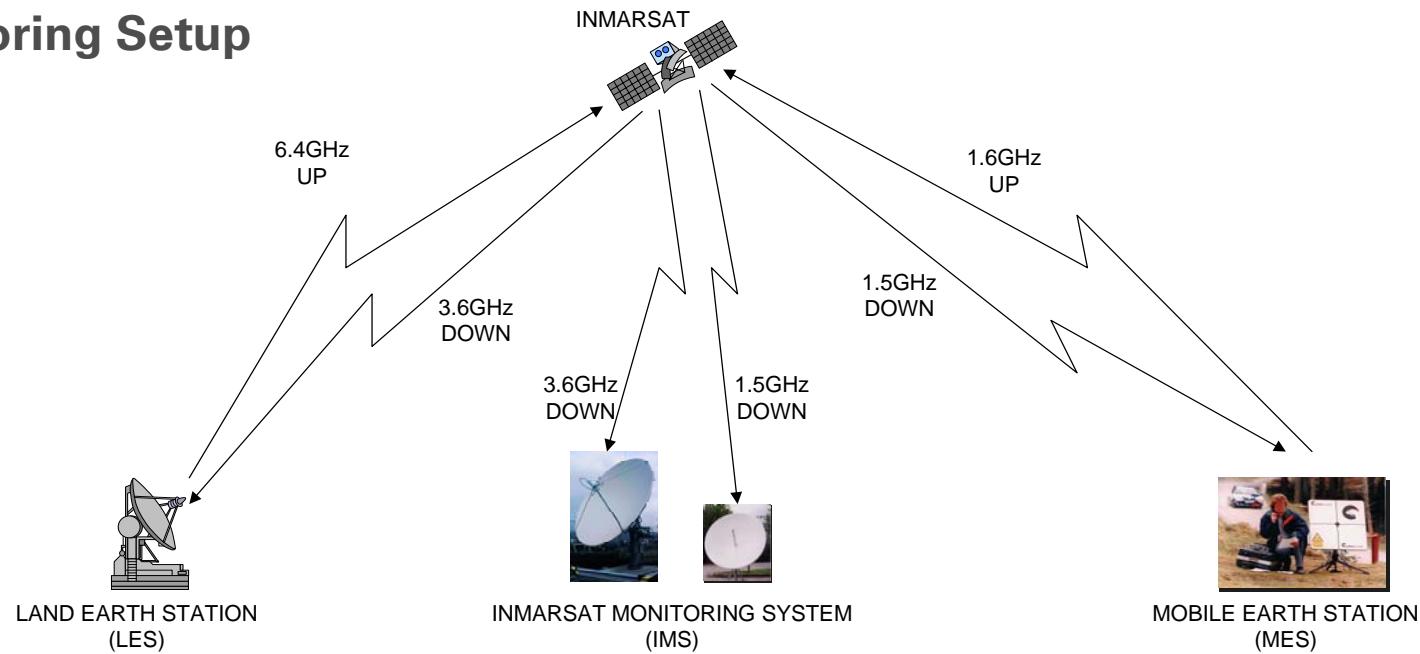
Order	Country Name	Total Number of Calls
41	Nepal	627
42	Guinea	625
43	Russian Federation	570
44	Tunisia	515
45	India	506
46	United Kingdom	456
47	Italy	431
48	Syria	414
49	Ivory Coast	400
50	Turkey	334
51	Kuwait	328
52	Burkina Faso	264
53	Liberia	259
54	South Atlantic Ocean	238
55	Maldives	221
56	Uzbekistan	214
57	France	194
58	Zambia	188
59	Qatar	186
60	Gabon	167
61	Spain	155
62	Ghana	138
63	Sierra Leone	94
64	Djibouti	91
65	Zimbabwe	83
66	Mozambique	81
67	Jordan	68
68	Benin	67
69	Rwanda	57
70	Senegal	56
71	Myanmar	52
72	Sweden	52
73	Germany	45
74	Kyrgyzstan	43
75	Burundi	42
76	Switzerland	41
77	Romania	33
78	Croatia	28
79	Portugal	26
80	Bulgaria	26
81	Bangladesh	25
82	Serbia and Montenegro	20
83	Iogo	18
84	Greece	17
85	Ukraine	17
86	Czech Republic	16
87	The Gambia	14
88	Azerbaijan	13
89	Netherlands	12
90	Hungary	11
91	Belgium	11
92	Gibraltar	9

Satellite Monitoring, Inmarsat

Service coverage for IsatPhone, LandPhone and FleetPhone

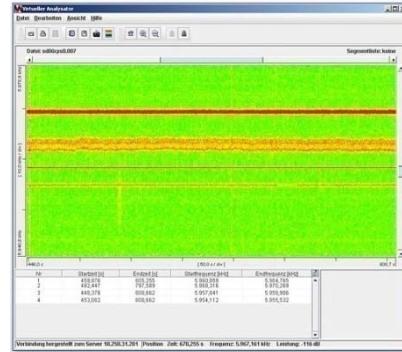
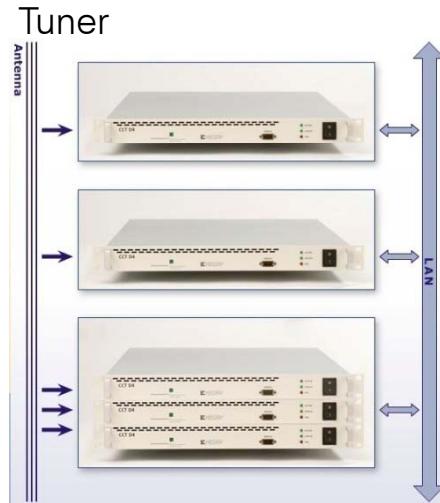


Typical Inmarsat Monitoring Setup



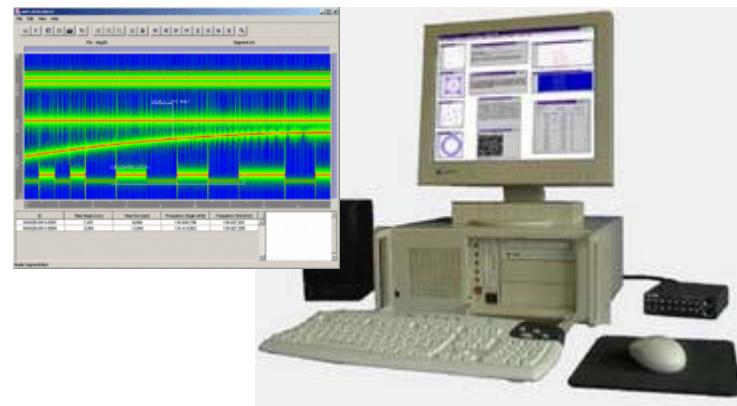
- Extensively or selected interception and recording voice, facsimile and data calls to and from selected terminals.
- Voice calls may be monitored in real time, or recovered and played back from the system database.
- Facsimile and data calls may generally be displayed with the simple viewer incorporated in the system, or exported.
- The generic system is capable of monitoring and recording Inmarsat A, B, C, D, M and mini-M signals, including High Speed Data (HSD) signals used by B and M4 (GAN) terminals

● Radio Frequency Monitoring Systems



- Wide Band Signal Acquisition & Processing
- Signal analysis
- Automatic detection and classification
- Demodulation & Decoding

Broadband Technology

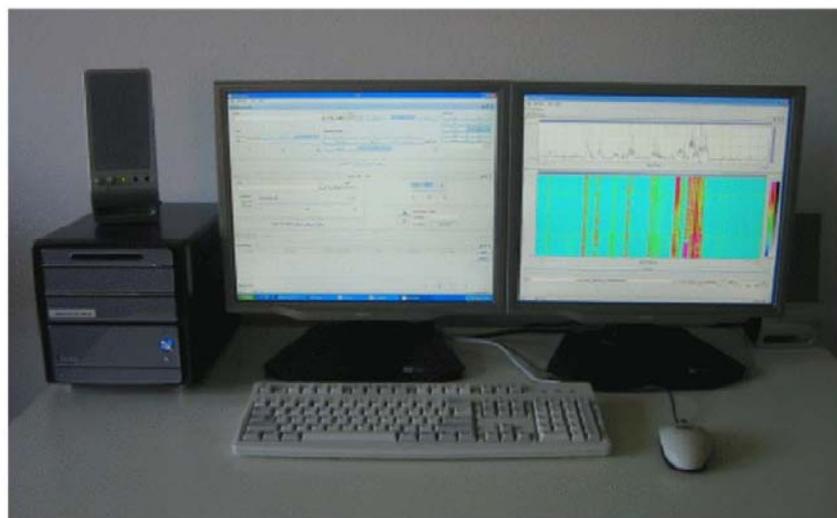
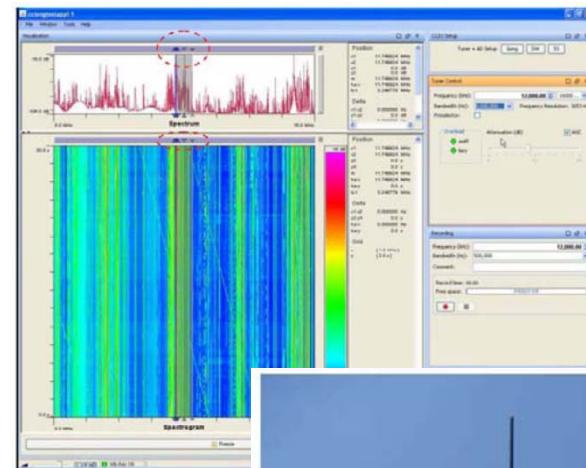


Work Station for COMINT
signal analysis

● Radio Frequency Monitoring Systems

MIRA-System Wideband Analyzer for HF/VHF/UHF

Reconnaissance, Recording, Analysis

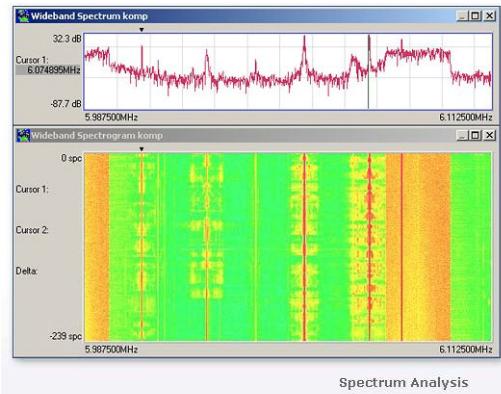


Exemplary workstation configuration comprising of PC, two TFT-displays and an active loudspeaker box.

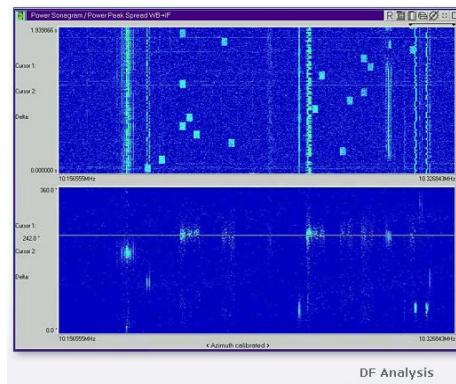


HF-Active Monopole-Antenna

Signal Analysis / Detection / Classification with Virtual Device Technology



Spectrum Analysis



DF Analysis

- Demodulation
- Decoding
- Classification

- Time Signal Analysis
- Spectrum Analysis
- DF-Analysis



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Communications Monitoring

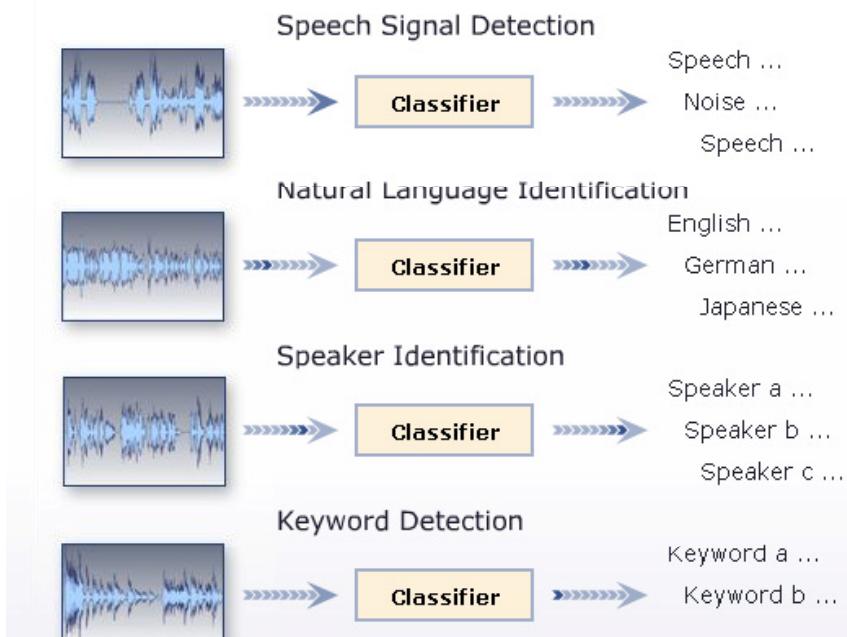
Broadband Search and Direction Finding Systems



Algorithms:

- Wattson Watt (HF)
- Amplitude Correlation (VHF, UHF)
- Interferometer

Speech Detection



Speech Technology

We also develop programs and software for natural language technology and speech recognition. The human voice and language are very complex, so we work with the latest speech pattern recognition technology.

We can provide speech recognition software to solve the following tasks:

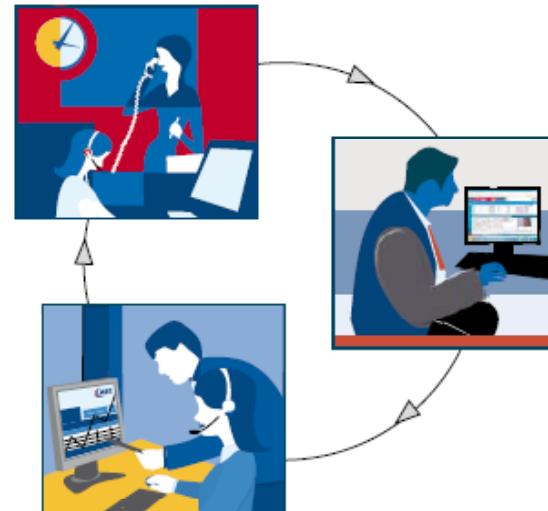
- speech signal detection
- natural language identification
- speaker identification
- keyword detection

We also supply training and configuration systems. So you can configure and train our language recognition software according to your needs. Simply and ergonomically.

● PABX Monitoring

Universal communications recording solution for many PABX models like Siemens, Alcatel, Avaya, Mitel, Nortel, NEC, Panasonic, Ericsson, etc.

- Network wide recording of calls, data and fax within PABX and PABX networks
- Analog and digital inputs up to 384 channels per unit
- VoIP recording
- Selectable Data Compression
- Scaleable platforms



● Computer Monitoring: IT Intrusion

The FinFisher IT Intrusion tools for IT interception

Usage:

- Information Gathering
- PC Surveillance
- IT Intrusion
- Information Exploitation
- Information Interception

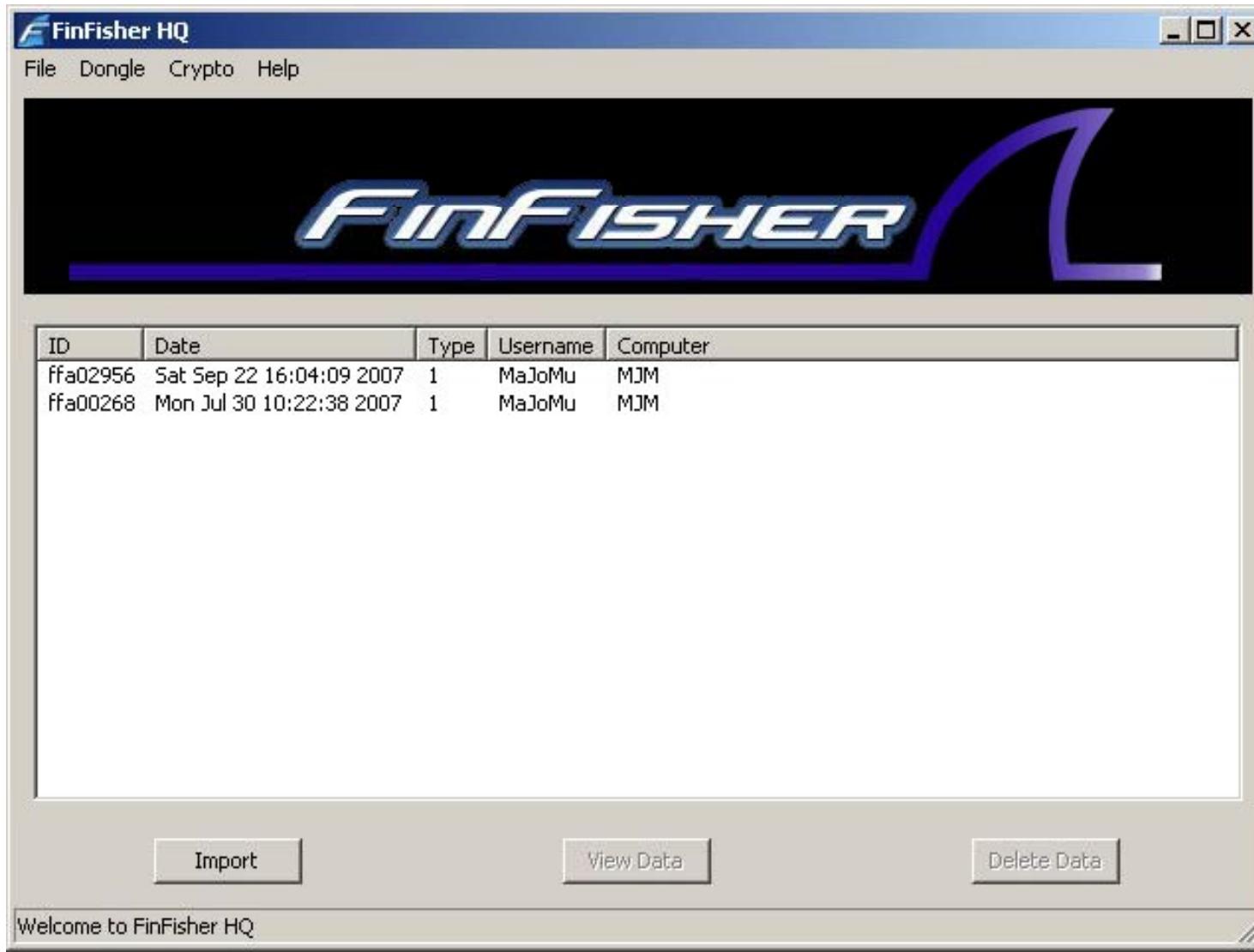
Components:

- FinFisher USB Suite:
 - FinFisher HQ (GUI)
 - FinFisher 1 (USB Dongle)
 - FinFisher 2 (USB Dongle)
 - FinFisher 3 (CD)
- FinFisher Remote IT Intrusion Kit (Remote info..)
- FinSpy (Professional Trojan Horse)
- FinFly (To infect Target PC)
- FinTraining



- Computer Monitoring: IT Intrusion

FinFisher HQ



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Communications Monitoring

● Computer Monitoring: IT Intrusion



FinFisher 1

FinFisher Dongle 1 Configuration

Generic Settings

- Bypass Anti-Virus / Anti-Spyware Tools
- Display Progress During Operation

System

- LSA Secrets Dump
- Installed Windows Updates / Hotfixes
- Product Keys Of Microsoft Software
- Auto-Injected DLL's
- Running Processes
- Autorun Software

Passwords

- Windows Account Hashes
- E-Mail Accounts
- Messenger Accounts
- Network Passwords
- Dial-Up Accounts
- Protected Storage Password
- PST Protection Passwords
- Remote Desktop Passwords
- Internet Explorer Stored Passwords

Network

- Open TCP / UDP Ports
- Network Adapter Information
- Internet Explorer History
- Mozilla Firefox History
- Wireless WEP / WPA Keys
- Outlook Auto-Complete E-Mail Addresses
- Mozilla Firefox Cookies

OK **Cancel**

FinFisher 2 (Information Gathering)

FinFisher Dongle 2 Configuration

Generic Settings

- Bypass Anti-Virus / Anti-Spyware Tools
- Display Progress During Operation

E-Mails

- Outlook / Outlook Express
- Mozilla Thunderbird
- Opera Mail

Files By Type

- Activate File Gathering

Search All Disks

Search %HOMEPATH%

Search Location:

File Extensions:
(separate extensions with ';')

OK **Cancel**

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Communications Monitoring

● Computer Monitoring: IT Intrusion



FinFisher 3

2 Bootable CD-Roms:

1. Removes password for selected Windows user account
2. Securely wipes local hard-disks

FinFisher Remote IT Intrusion Kit

- Used for remote information gathering
- Provides up-to-date IT Intrusion environment (e.g. WLAN, Bluetooth, etc.)
- FinTrack operating system
- All major up-to-date IT Intrusion tools

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Communications Monitoring

● Computer Monitoring: IT Intrusion

FinSpy

- Professional Trojan Horse
- Monitor and remotely access one or multiple systems
- All communication is hidden and enciphered

Features:

- Custom Executables
- Bypasses Anti-Virus/Anti-Spyware Software
- Location Tracing
- Scheduled Operations
- Key Logging
- Password Gathering
- Webcam/Microphone Access
- Communication Sniffing:
 - Skype
 - Instant Messengers (ICQ, Yahoo, ...)
- Other

● Computer Monitoring: IT Intrusion



FinFly

- Used to infect executables while downloading
- Components:
 - Transparent HTTP Proxy
 - EXE Loader
- Proxy attaches Trojan Horse software to downloaded executables on-the-fly
- ISP Version to come in 2008
- Etc.

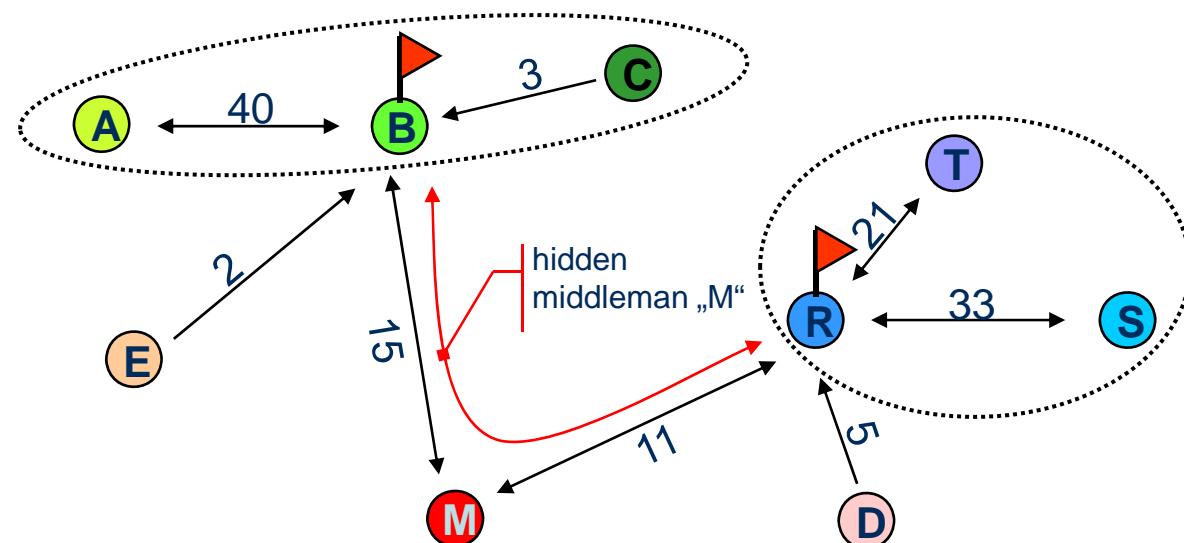
Trainings

- FinTraining: Basic IT Intrusion Courses
- FinTraining Advanced: Exploiting Software
- FinTraining Advanced: Rootkits
- FinTraining Advanced: IT Intrusion VoIP
- FinTraining Advanced: Wireless IT Intrusion
- FinTraining Advanced: Covert Comms

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- Link Analysis

Search for hidden relationships and non-trivial communication patterns

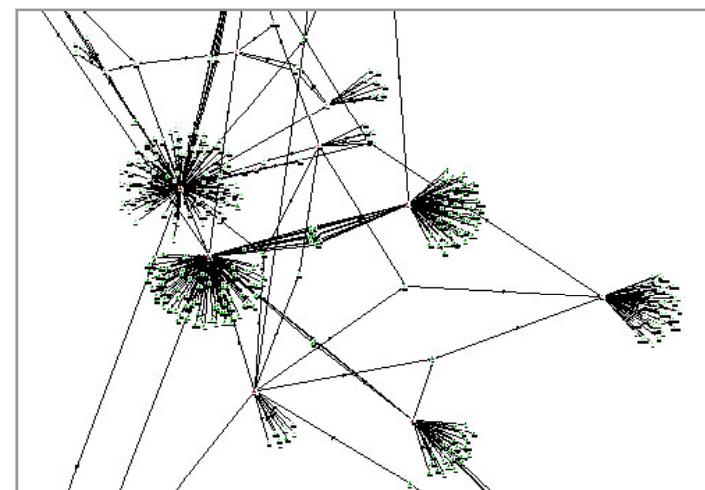
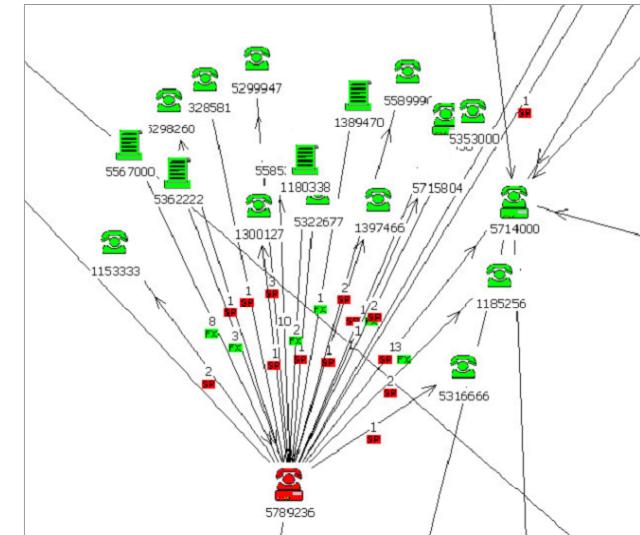
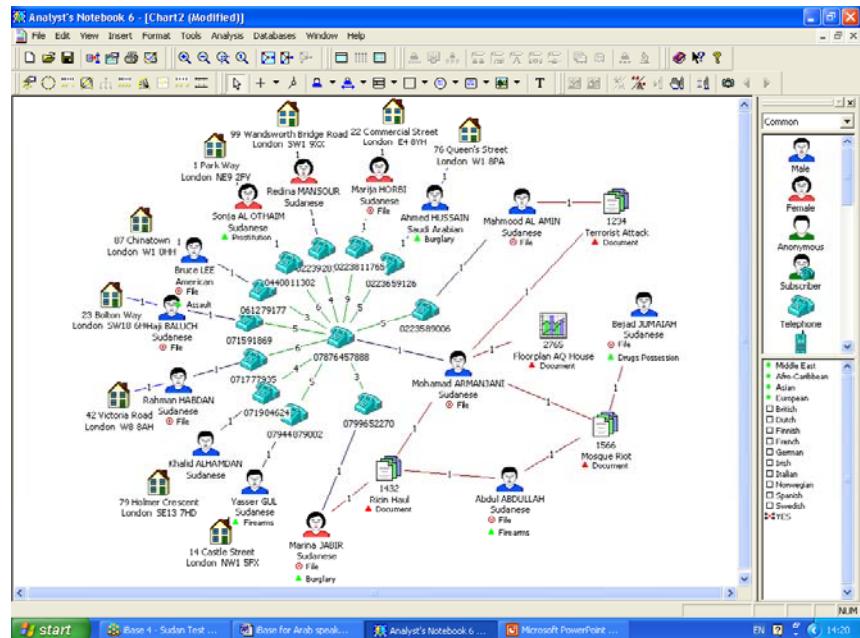


- ... Calling partner
- ... Monitored subscriber
- ... Individual groups of suspects

Link Analysis

● Link Analysis

Link Analysis



Jammer Systems



Counter Surveillance

Encryption

Detection

IT Security & Forensic

Lockpicking & Silent Drilling

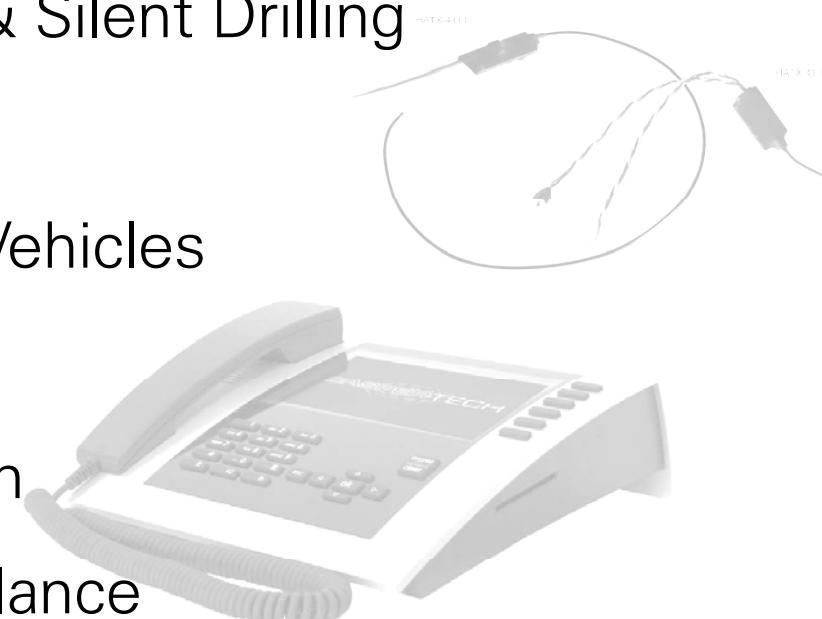
Tracking

Surveillance Vehicles

Recorders

VIP Protection

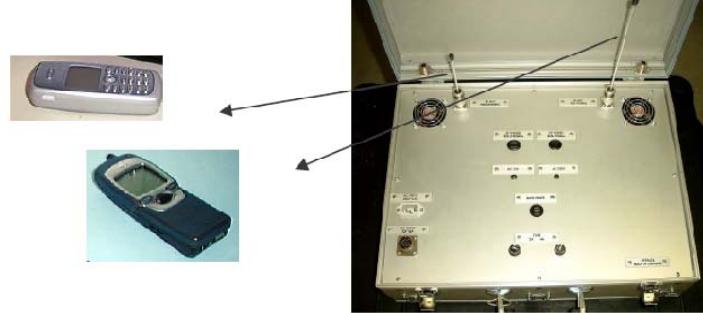
Audio Surveillance



● Jammer Systems (Low Power)



*Counter
Surveillance Jammer
(20Mhz-2,4Ghz)*



*Medium Power GSM
Room Jammer*



*Low power room GSM jammer,
(900/1800 Mhz)*

● Jammer Systems (High Power)



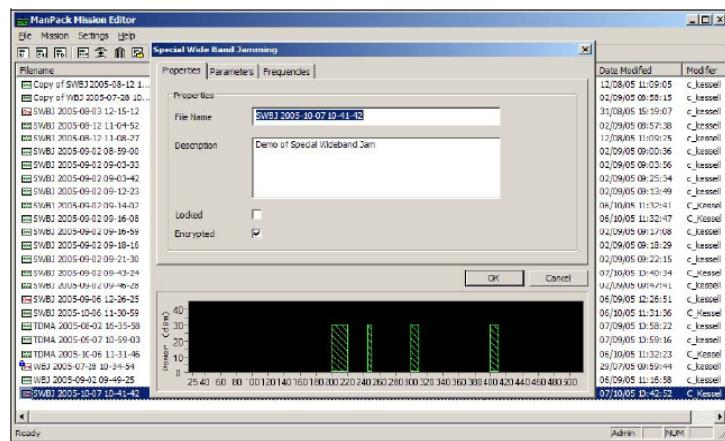
*Wide Band Jammer
25-2500 Mhz 100 Watts
programmable*



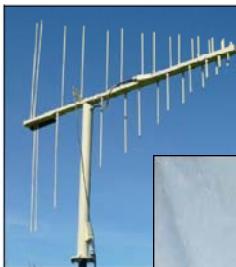
Remote Control Unit



Vehicle Installation External View



Mission Editor (GUI on PC)

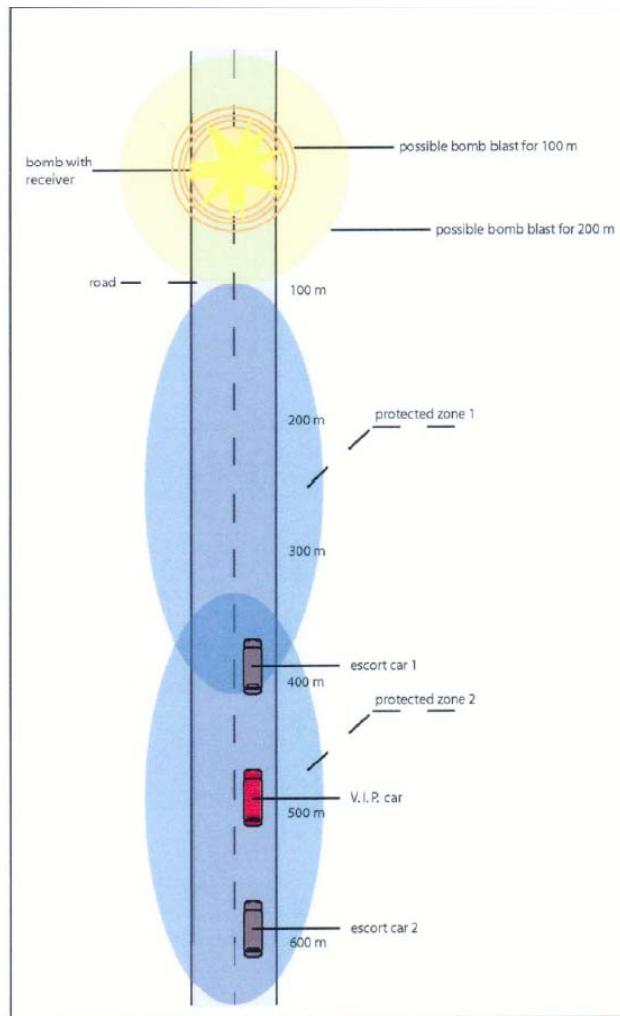


Antennas



Unit Vehicle Installation

● Jammer Systems (High Power)



VIP Protection

High Power
Convoy Jammer
(20Mhz- 6 GHz)
250 Watts

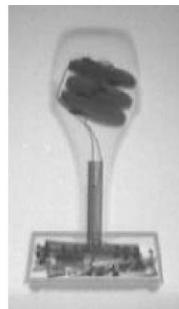
● Counter Surveillance

The Threat

Camouflage



10



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TSCM

Telephone Line Analyzer Detector



Turnkey TSCM System



Analyzing Antennas



Passive Wall Sweep



LAN Tester

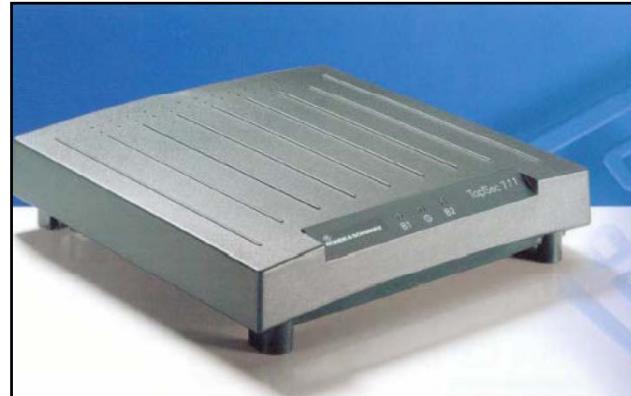


X-Ray Wall Ceiling Cables

Counter Surveillance

● Encryption

SW + HW – based encryption solutions



PSTN, GSM, Fax, E1, Email, Harddisc

- Detection Systems
X-Ray



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Detection Systems

- Detection Systems
CBRN Detection



Handheld for Explosives,
Chemicals and narcotics



Document Scanner



Explosive and
Narcotics Scanner



Walk Through Detection



Scanner for Explosives,
and Narcotics

● Lock Picking

Covert Methods of Entry



Car Opening Tools



Decoder for certain Locks



Stethoscope



Lock Picking Sets



Auto Dialer for Combination Locks

● Silent Drilling



Manual Low Noise Drilling Kit



Automatic Covert Low
Noise Drilling Kit



Low Noise Drilling System

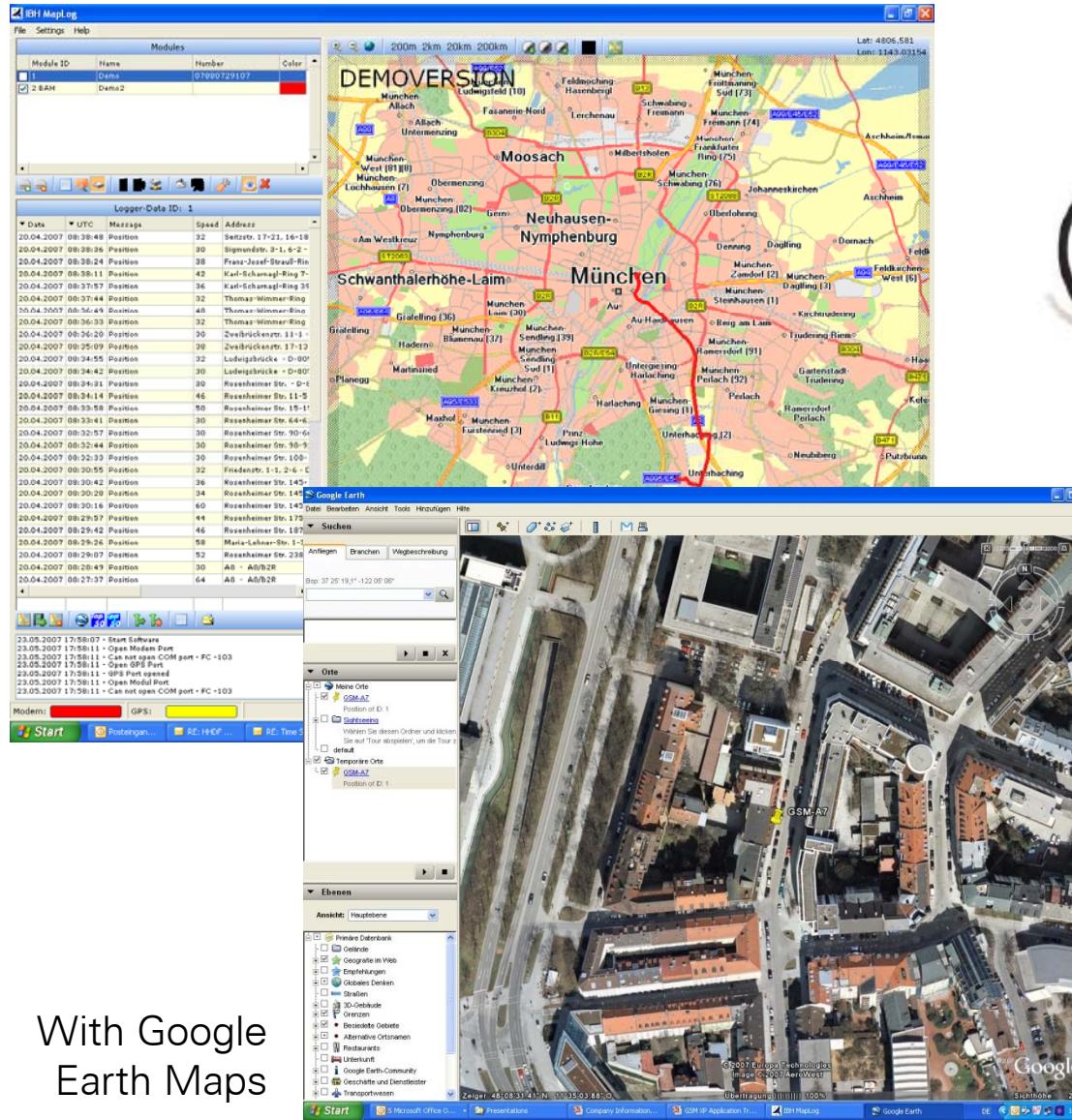
- Tracking Systems GPS/GSM/GPRS



Box



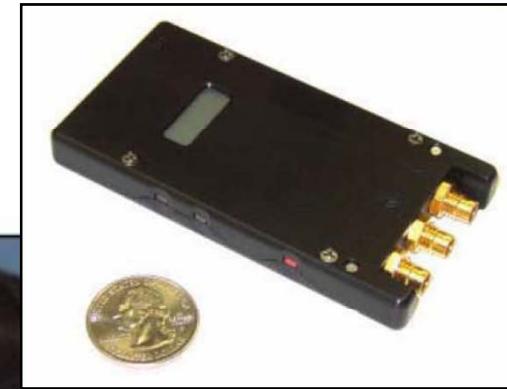
Board



With Google Earth Maps

Tracking

- Minaturized Recorders (Audio and Video)



● Miniaturized Audio Surveillance



Wireless & wired, analogue/digital, remote controlled, encrypted



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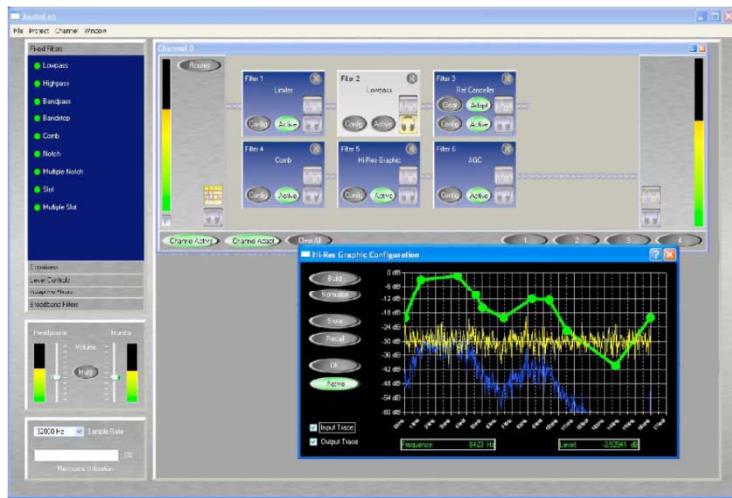
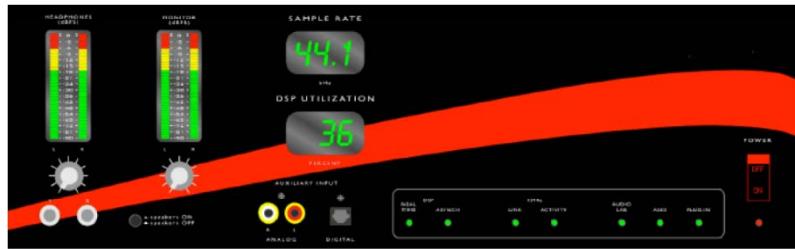
Audio Surveillance

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- Miniaturized Video Surveillance

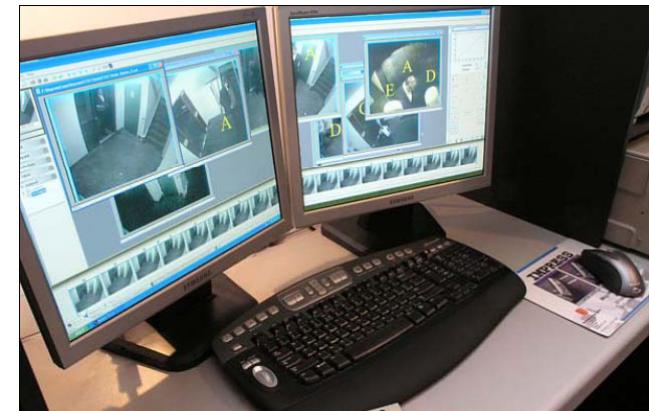


● Audio & Video Filtration Systems



Audio Processing Laboratory

Video Enhancement Laboratory

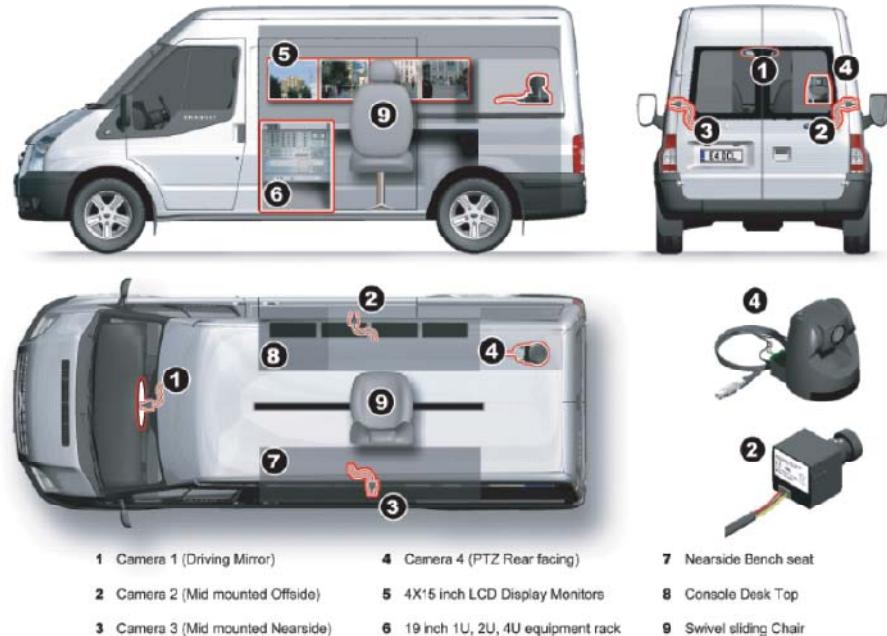


● Surveillance Vehicles

- Mobile Surveillance Platforms integrating command, communication and surveillance
- Audio and Video Surveillance
- Communication systems (GSM, SAT, Trunk Radio, etc.), specialist covered antennas
- AC and heating Systems
- GSM Monitoring Units (Active and passive)
- Tracking Systems
- Remote Control Car Systems



Mobile Surveillance Vehicle (Ford Transit 280)



CONFIDENTIAL

● Surveillance Vehicles



Surveillance Vehicles

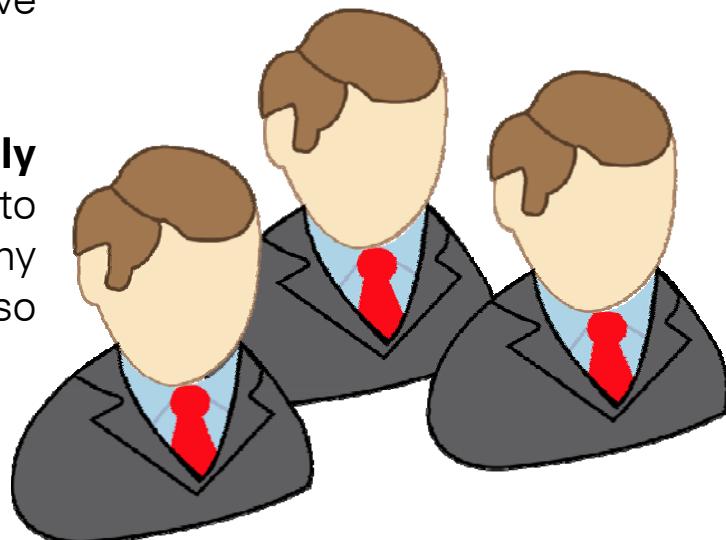
● Training

Training services form an important and often integral part of implementing **successful security operations.**

A **major factor** in our philosophy is the belief that **training and the understanding of products and technology** are critical factors and major strengths in finding successful security solutions.

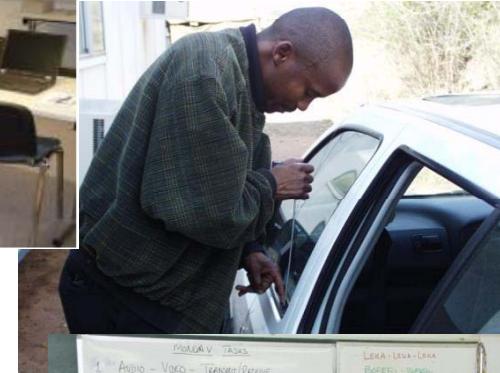
Elaman highly trained personnel are called upon by many government security organisations to give advice and consultation.

Elaman have organised and developed a **highly successful training programme** designed to benefit government security personnel at many levels not only for operational techniques but also important stages of maintenance.



● Typical Training Courses

- Management Training
- Operational Training
- Technical Training
- Covert Concealment
- TSCM Basic & Advanced
- Document Opening
- Lock Picking - Basic & Advanced
- Covert Methods of Entry
- Insertion Techniques
- Video & Photographic Surveillance
- Audio Surveillance
- Intelligence Data Base
- VIP Close Protection



ELAMAN works closely with clients to develop a total system solution to their needs and to ensure that they are equipped, trained and manned to meet the formidable challenges in the field of communication.

If you would like further Information about ELAMAN, or would like to discuss a specific requirement or project, please contact us at:

Elaman GmbH

German Security Solutions

Seitzstr. 23

80538 Munich

Germany

Tel: +49-89-24 20 91 80

Fax: +49-89-24 20 91 81

info@elaman.de

www.elaman.de

Thank You.

