

TeleStrategies®

ISS World Europe

Intelligence Support Systems for Lawful Interception,
Criminal Investigations and Intelligence Gathering

1-3 OCTOBER 2008 • PRAGUE, CZ

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Agenda

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Location

Visa Information

ISS World Europe is the world's largest gathering of European Telecom Operators, Law Enforcement, Intelligence and Defense Analysts responsible for lawful interception, electronic investigations and network Intelligence gathering.

ISS World Programs present the methodologies and tools to bridge the chasms from lawful intercept data gathering to information creation to investigator knowledge to actionable intelligence.

Five ISS World Tracks:

[Conference Track 1](#)

ISS for Lawful Interception

[Conference Track 2](#)

ISS for Criminal Investigation and Intelligence Gathering

[Conference Track 3](#)

ISS for Data Retention and Regulatory Compliance

[Training Track 4](#)

ISS for Audio Video Forensics and Biometric Speaker Identification

[Training Track 5](#)

LEA, Intelligence and Defense Analyst Training and Product Demonstration Track

Keynote Sessions

Wednesday, 1 October 2008

8:30-8:45

Welcoming Remarks

Tatiana Lucas, ISS World Program Director

8:45-10:15

Overview Addresses

Keynote Address

Jim Gamble, Chief Executive of the Child Exploitation and Online Protection Centre (CEOP), affiliated to the Serious Organized Crime Agency (SOCA), UK

Internet and IP Networking Impact on Lawful Interception, Criminal Investigation and Intelligence Gathering: Today and in the Future

Dr. Jerry Lucas, President, TeleStrategies

Track 1: ISS For Lawful Interception

This track is for Telecom Operators and Law Enforcement/Intelligence/Defense Analysts who are responsible for specifying or developing lawful intercept network infrastructure.

Wednesday, 1 October 2008

10:45-11:45

Lawful Interception Guru Panel Moderator: Dr. Jerry Lucas, President, TeleStrategies

Panel:

Dr. Cemal Dikmen, VP Product Management, SS8 Networks

Alessandro Mordacci, Senior Advisor, Ericsson

Keith Driver-Head of Business Development (Intelligence/Defense), Telesoft

Technologies

Karanvir Singh, President, Kommlabs

Jerome Tollet, CTO & Co-Founder, Qosmos

Klaus Mochalski, CEO, ipoque

Bert Hubert, CTO, Fox-IT

Chris MacFarlane, President, ETI Connect

Nagui Erian, ATIS systems

Joergen Axland, General Manager for Business Development and Strategy, Nokia

Siemens Networks

13:15-13:45

Real Time Intercept From Packet Networks, Challenges And Solutions

Keith Driver, Head of Business Development (Intelligence/Defence), Telesoft

Technologies

13:45-14:15

Layer 7 Identity Management For Lawful Interception

This presentation will explain how information extraction through Deep Packet Inspection

provides unrivalled ability to correlate application data contained in IP flows with IP user data and manage multiple identifiers, in order to enable Law Enforcement Agencies and System Integrators working with LEAs to develop reliable Internet Interception applications at the user level.

Jerome Tollet, CTO & Co-Founder, Qosmos

14:45-15:15

Lawful Interception Challenges In The Fixed Mobile Convergence (FMC) Networks

As the next generation IMS networks are introduced, probably one of the most exciting services is the Fixed Mobile Convergence (FMC), where a subscriber with a dual-mode phone can access the cellular services using a WiFi hotspot. As these services are being implemented, carriers realize the challenges of meeting CALEA or other lawful intercept regulations. This session will take a close look at the FMC service, challenges for meeting the CALEA requirements and solutions.

Dr. Cemal Dikmen, VP Product Management, SS8 Networks

15:15-15:45

Target Identity In A Virtual World

Michael Rucker, Head Product Management & Business Development LIMS, Utimaco Safeware AG

16:15-16:45

Challenges And Solutions For LI In Complex IP Networks

Chris Macfarlane, President, ETI Connect

16:45-17:15

The Fox Replay Analyst Interception Analysis Ecosystem For Integrators, Government, Partners And Telecommunications Providers

Fox Replay Analyst is a powerful and user friendly system for analyzing intercepted IP and VoIP traffic, specially designed for government use. Fox Replay Analyst however is often delivered through partners, integrators or telecommunications providers. This presentation outlines the various ways in which your organization can benefit from the very best in intercepted IP analysis. Either directly or as a partner.

Gertjan Schoenmaker, Fox-IT

Thursday, 2 October 2008

8:30-9:00

Why LI And Mass Intercept Of IP Are Both Doomed To Fail

With the explosive growth in bandwidth and unregulated internet applications, conventional methods of interception simply cannot provide adequate intelligence. Is there a better way?

Karanvir Singh, President, Kommlabs

9:00-9:30

Lawful Intercept Challenges For Wi-MAX And Video Telephony

As in the past, new communication technologies are constantly appearing in carrier networks, two such technologies are Wi-MAX and Video Telephony. These technologies have been talked about for years but are finally getting to the point where they are going to be commercially available on a large scale. In this session we look at how they are going to affect current LI deployments, what new capabilities may need to be added and what impact carriers should expect.

Scott W. Coleman, Director of Marketing, SS8 Networks

10:00-10:30

Lawful Interception In The Evolving World Of Telecom

This presentation will discuss lawful interception requirements and solutions.
Otto Kern, Business Development Manager, Group2000

10:30-11:00

Building A 'Smart' Interception Solution

Alan Dubberley, Vice President Strategy Director Asia Pacific, AQSACOM

13:00-13:30

How Ericsson Addresses LI Challenges

Hakan Jonasson, Senior Sales Manager, Ericsson
Sten Lundell, Senior Sales Manager, Ericsson

13:30-14:00

Efficient Interception Of IP Services

Alessandro Mordacci, Senior Advisor, Ericsson

14:30-15:00

Trends In Lawful Interception

Dana Sugarman, Director Product Marketing, Verint Systems

15:00-15:30

Network Convergence: Lawful Interception For Next Generation Network

Baruch Pinto, Product Manager, STAR-GATE, Verint Systems

16:00-16:30

New Requirements Demand Flexibility – Multi-Standard And Multi-Vendor Lawful Interception Solution For New Telecommunication Technologies And Services

This session will present a unique Lawful Interception (LI) solution which allows small and large service providers to comply with LI mandates on new telecommunication technologies and services, such as 3G, Video Call, IMS, IP and VoIP on multi-vendor networks, customizing mediation functionalities to different scenarios. Implementation alternatives to meet different setup preferences will be discussed, including integration with legacy LI systems, stand-alone solution and a hosted model for on-demand services. The session will also present multi-standard functionalities to deliver content and information related to interceptions to comply with Law Enforcement Agencies even when requirements are not fully based on standards, such as ETSI.

Mauricio Ibarra Dobes, CEO, Suntech Intelligent Solutions

16:30-17:00

High-Performance LI With Deep Packet Inspection On Commodity Hardware

Lawful interception at multi-gigabit speeds has long been the domain of expensive dedicated hardware systems. This presentation will show how a high-performance deep packet inspection engine in off the shelf hardware can not only achieve the necessary performance, but also provide detailed statistics on the encountered traffic based on layer-7 classification. These statistics and log data are particularly useful for encrypted protocols such as Skype and BitTorrent which are usually beyond the scope of LI systems.

Klaus Mochalski, CEO, ipoque

Friday, 3 October 2008

8:30-9:00

New Era In Breaking Mobile Phones Encryption; GSM, GMR And Beyond

Yana Godin, VP R&D, Gita Technologies

10:00-11:00 - SESSION A

What Investigators Have To Know About Telecom Operator Packet Activity Reporting, Port Information, CII, Timestamps, SIP, And IP Tapping

Klaus Mochalski, CEO, ipoque

10:00-10:30 - SESSION B

Next Generation Deep Packet Inspection Platforms - Driving State Of The Art Network Intelligence & Defense Solutions

Dr. Elan Amir, President & CEO, Bivio Networks

10:30-11:00

ATIS Interception Management System - AIMS

Communication service providers continue introducing new services; network equipment vendors are pushing towards convergence of voice and data networks; standardization bodies are redesigning the architecture of telecommunications infrastructure. Constant change is forcing Law Enforcement Agencies to rethink their approach to Lawful Interception. This presentation will highlight the benefits of a unified platform to interface with multiple networks and services.

Nagui Erian, ATIS systems

11:30-12:30 - SESSION A

Investigations Involving Peer To Peer File Sharing Networks, File Transfer Protocols, Gnutella, BiTorrent, EDonkey, Skype Issues And Deep Packet Investigation

Klaus Mochalski, CEO, ipoque

11:30-12:00 - SESSION B

How To Combine Target, Parametric And Massive IP Interception In A Complex Country Wide Scenario

AREA will present real cases and lessons learned in a huge implementation of a Monitoring Center for IP interception. MCR Captor, a single IP Probe Platform developed by AREA will be presented.

Mattia Mazzola, Project Manager MCR System, AREA

12:00-12:30

IP Challenges In The LI Environment

Omri Kletter, Product Design Engineer, NICE Systems

Track 2: ISS For Criminal Investigation And Intelligence Gathering

This track is for Law Enforcement Agents, Intelligence and Anti Corruption Analysts who have investigation and intelligence analysis responsibilities associated with telecom operator networks, electronic surveillance technologies and information sharing.

Wednesday, 1 October 2008

10:45-11:15

Internet Traffic Decoding – The Hard Truth And Possible Solutions

Decoding and presentation of intercepted IP data communication is one of the key technological challenges facing law enforcement agencies today. Little has been said about how IP data decoding actually works and therefore this presentation shall provide an

overview of available technologies/solutions and how their performance and quality compares.

Alessandro Guida, Solutions Architect, ATIS systems

Klaus Mochalski, CEO, ipoque

11:15-11:45

Investigative Analysis And Intelligence Gathering Solutions

ThorpeGlen solutions take the next step from large scale Data Retention and storage to provide intelligent analysis of that data whilst still at the Telco premises, thus negating need to backhaul massive amounts of data. At a Central Monitoring Centre site and with the use of fast and easy to use, built-in Graphical applications; we can QUICKLY produce Link charts, timelines and social and geographic profiling from targeted data – extracted and sorted quickly from billions of Telecommunications transactions. The solutions are aimed at National Security Agency and Major Crime Units who don't necessarily have staff with 'in depth' Telecommunications skills – our systems have been developed based on feedback from Customers also whose first language is not English. The outcome is to extract actionable Intelligence (and evidence) from complex Telecommunications data – fast and easily.

Vincent Barry, Vice President Sales and Marketing, ThorpeGlen

13:15-14:15

Intelligence Gathering Guru Panel

Moderator: *Dr. Jerry Lucas, President, TeleStrategies*

Panel:

Alexander Hoessrich, Managing Director, ATIS systems

Vineet Sachdev, Sr. Director, SS8 Networks

Rudolf Wunschuh, Business Development Manager LIMS, Utimaco Safeware AG

Karanvir Singh, President, Kommlabs

Shai Issler, VP Marketing and Business Development, NICE Systems

Chris Macfarlane, President, ETI Connect

Andrea Formenti, CEO, Area

14:45-15:15

New Solutions For Massive Monitoring

Jean-Philippe Lelievre, Thales

15:15-15:45

The “8th Layer” – Unifying Communication Signal Sources And Applications On One Platform

A wide range of communication media (access networks) is available to individuals and organizations, including, but not limited to, mobile networks (e.g. GSM/UMTS), fixed line networks, satellite networks (e.g. Thuraya, Inmarsat), the Internet (e.g. peer-to-peer VoIP services, email) and radio (HF, VHF and UHF). The challenge lies in bringing together the required interception and signal acquisition technologies in order to create a unified view by processing intercepted content on one centralized platform (e.g. signal classification, demodulation/decoding, speech processing), and thereby creating a standardized set of meta-data which provide the basis for advanced search/analysis functionality.

Alexander Hoessrich, Managing Director, ATIS systems

16:15-16:45

Is Lawful Interception Meaningful In An Increasingly Encrypted World?

Real world challenges and radical solutions.
Karanvir Singh, President, Kommlabs

16:45-17:15

Security In Lawful Interception

Rudolf Wunschuh, Business Development Manager LIMS, Utimaco Safeware AG

Thursday, 2 October 2008

8:30-9:00 - SESSION A

Separate Signal From Noise, Massive Data Analysis Tools

Everyday more and more data needs to be handled by the LEA's. How to correlate, consolidate and analyze this massive data, coming from multiple sources, such as CDR, social security, bank etc will be presented. Effective pattern matching, behavior, social network algorithms that provide the means to separate signal from noise will be discussed.
Alper Tosun, BTT LTD

8:30-9:00 - SESSION B

From Lawful To Massive Interception: Aggregation Of Sources

Nicolas Deckmyn, AMESYS

9:00-9:30 - SESSION A

Passively Gathering Intelligence For LI And National Intelligence Agencies Law Enforcement

Agents need to comply with strict rules when handling target information. The LI process can however only function when the targets are known. These targets are identified through a number of ways, such as observations, information received from informants, etc. Passive intelligence gathering, from land and satellite communications networks, plays a major role in identifying targets for the LI process. VASTech will discuss the Zebra system, with capturing and processing densities of than 15000 channels per 19" rack, to show how it can assist in identifying targets and benefit agencies in both the LI and intelligence communities.

Andre Scholtz, Sales and Marketing Director, VASTech

9:00-9:30 - SESSION B

Investigation Scenarios In A Mass Collection Environment

Meron Colbeci, Product Manager, NICE Systems

10:00-10:30

Remote Forensic Software

The ever increasing amount of encrypted IP traffic makes life constantly more difficult for law enforcement and intelligence agencies. We show how much information can be lost if only a passive tapping of IP traffic is applied and what additional information can be gained by installing a remote forensic software on the target machine. This talk is complemented by a live demonstration of the software in Track 5.

Michael Thomas, DigiTask GmbH

10:30-11:00 - SESSION B

Overcoming Traditional Challenges To Analyzing IP Content

As larger and larger "pipes" connect subscribers to the internet, and users use those pipes to communicate in even newer ways, law enforcement is challenged to accurately and quickly identify useful and interesting information from the volumes of packets flowing to and from those subscribers. Analysis solutions need to be able to handle both high volumes

of traffic and the curve balls that Web 2.0 internet traffic can throw at you. Luckily techniques exist for both breaking down the traffic and performing new and interesting analysis of IP data. In this session we look at a tool that takes these challenges head on and reveals to law enforcement exactly what the subscriber saw and experienced, almost as if the agent was looking over the target's shoulder.

*Erik de Bueger, European Director of Sales, **SS8 Networks***

13:00-13:30 - SESSION A

Dual Usage Strategy Of Lawful Interception Systems

3G UMTS and IP based NGN networks can benefit today from a cost saving strategy of dual commercial and lawful interception usage. This strategy brings considerable cost savings to both operators and LEAs while not sacrificing any performance, security, functionality or standardization aspects. The systems can be configured to generate new revenues to the operator, to save additional costs of operations of networks, prevent and minimize fraud and more. Dual usage Lawful Interception systems are usually better maintained and function over time due to mutual interests of Operators and LEAs.

*Elan Sharon, Chief Sales, Marketing & Operations Officer, **Septier Communication***

13:00-13:30 - SESSION B

Data In A Haystack-Monitoring Systems With Advanced Workflow Management

The volume of data to be processed by monitoring systems has dramatically increased lately. Without the support of a well designed workflow system, users would not be able to efficiently find the relevant information in the enormous data passed to them. This presentation describes a complete monitoring system, which integrates complex data collection procedures with high level support for users in the fields of data processing, workflow and role management.

*Dr. Zsolt Kohalmi, President, **NETI***

*Zoltán Peller, System Engineer, **NETI***

13:30-14:00 - SESSION A

Future Challenges In The Lawful Interception Of IP Based Telecommunication

The increasing use of modern techniques (like AJAX or Web 2.0) employed in web sites and in web based chat and mail applications as well as the immense flood of information becomes an issue for technical systems visualizing internet traffic. This presentation outlines various ways to meet these challenges and facilitate the work of law enforcement agencies.

DigiTask GmbH, speaker to be announced

13:30-14:00 - SESSION B

Realtime Traffic Analysis

*Robert Leitch, Communications Manager, **PROTEI***

14:30-15:30 - SESSION A

Incorporating High-Accuracy Location Information Into Mobile Surveillance Strategies

Mobile surveillance systems can be greatly enhanced through incorporation of high-accuracy location technology. In this presentation we will describe a comprehensive mobile surveillance system that utilizes high accuracy location technology for real-time tracking of any mobile utilizing the network. Furthermore, additional benefits of high-accuracy location technology will be described such as location-based denial-of-service.

*Jeffrey F. Bull, Sr. Director of Product marketing, Safety and Security, **TruePosition***

14:30-15:00 - SESSION B

Facing Real World Challenges In Communications And Security Monitoring With Integrated Interception & Analysis Approach

Paolo Alessandro Mari, Marketing and Communications, IPS Intelligence and Public Security

15:00-15:30 - SESSION B

REMOTE CONTROL SYSTEM V5: A Stealth, Spyware-Based System For Attacking, Infecting And Monitoring Computers And Smartphones. Full Intelligence On Target Users Even For Encrypted Communications (Skype, PGP, Secure Web Mail, Etc.)

David Vincenzetti, Partner, and Valeriano Bedeschi, Partner, Hacking Team

16:00-16:30

TheThreat.Net: Dealing With The Retained Communications Data Explosion

Law enforcement agencies recognize that the individual nature of communications is being lost. With modern technology, links that previously defined a clear association between people are now relatively few. They have been replaced by complex networks, in which the connections are numerous but weak. As a consequence, criminal behavior no longer appears on the radar of traditional interception systems and the threat has become less clear. Given this new environment, Detica will outline how the entire approach to retained communications data analysis needs to change to ensure we are not overwhelmed by the "data explosion".

Director, Detica

16:30-17:00

Trends And Challenges In IP Interception

Yuval Altman, Product Manager, Verint Systems

Friday, 3 October 2008

8:30-9:00

Monitoring Center – Implementation Of Satellite Interception

Omri Kletter, Product Design Engineer, NICE Systems

10:00-10:30

Mobile Forensic Analysis For Smartphones

Oleg Fedorov, Oxygen Forensic

10:30-11:00

Do You Need To Retain The Complete Haystack To Find The Needle?

What is DDPI and how it can help you find the needle.

Sandeep Saxena, Vice President, Kommlabs

11:30-12:00

Multi-Level System Of Voice Biometrics

This presentation is about the complex use of automatic and expert methods of speaker identification by voice. We first highlight that automatic methods are primarily used for search tasks while expert ones are aimed at forensic tasks. Most expert methods are traditionally based on extraction and comparison of linguistic features. That makes it virtually impossible to study short recordings or the recordings in the language unknown to an expert. Finally, we introduce and show the results of the Formant Matching method developed at Speech Technology Center that does not share the limitations mentioned

above.

*Matvey Zhokhov, Manager of International Sales, **Speech Technology Center***

Track 3: ISS For Data Retention And Regulatory Compliance

This track is for Telecom Operators and Law Enforcement, Intelligence and Defense Analysts who are responsible for Call Data Retention and Data Handoff.

Wednesday, 1 October 2008

10:45-11:15

The Challenge Of IP Data Retention

*Mario Mene, CTO, **Intelligentias***

11:15-11:45

Data Retention Efficient And Compact

*René Nitzinger, Product Manager, Transaction Security, **Utimaco Safeware AG***

13:15-13:45

The Challenges Of Collecting Data For Sophisticated And Nomadic Targets In Next-Generation Networks

Lawfully Authorized Electronic Surveillance (LAES) is challenging companies to retain data through various criteria, across multiple next-generation networks – not an easy task when considering the expansive subscriber bases and massive amounts of data traveling across a service provider network. Data comes with multiple and overlapping criteria including: IP address, MAC address, phone number, SIP URL and email. Add that to the multitude of next-generation networks that many enterprises support – Wireless, WiMAX, cable and IMS, to name a few – and even the best efforts to retain data can fall short. This session will acknowledge the ever-present challenges presented by LAES, and how services providers can streamline efforts to remain compliant and efficient with their data retention strategies.

*Joe Hogan, CTO and Founder, **Openet***

13:45-14:15

Interceptions And Retained Data: How To Manage Huge Amount Of Data With An Analysis Tool

Is it really enough using the “best of breed” software tools to generate intelligence and evidences? The critical task of analyzing LI data is not just a matter of "powerful "best-of-breed" tools but also requires a good capability to easily interface different systems and be compliant with recent ETSI (RDHI) standards.

*Enzo Di Ninno, Head of Software Department, **AREA***

14:45-15:45

Data Retention Guru Panel

Moderator:

*Dr. Jerry Lucas, President, **TeleStrategies***

Panel:

*Joe Hogan, CTO, **Openet***

*Vincent Barry, Vice President Sales and Marketing, **ThorpeGlen***

*Mario Mene, Chief Technology Officer, **Intelligentias***

*Andrea Fabrizi, General Manager, HP DRAGON, **Hewlett Packard Company***

*Shai Issler, VP Marketing and Business Development, **Nice Systems***

Pompeo Santoro, Strategic Product Manager, **Ericsson**
Otto Kern, Business Development Manager, **Group2000**

16:15-17:15

Telecom Operator Roundtable Data Retention

Discussion Panel Moderator: Dr. Jerry Lucas, President, **TeleStrategies**

Panel:

Alex. Leadbeater, Eu Data Retention Compliance Manager, **BT**

Cristina Vela, Senior Advisor, EU & International Regulatory Affairs, **TELEFONICA S.A.**

Luis Sousa Cardoso, **Telecom Portugal**

Dr. Claus-Dieter Ulmer, Attorney, Senior Vice President/CPO, Group Privacy, **Deutsche Telekom**

Thursday, 2 October 2008

8:30-9:00

How To Automate And Protect LEA Communications And Documents Related To Lawful Interceptions

AREA has developed a suite of software solutions called MCR Office compliant with for EC recommendations and ETSI standard (HI1 and RDHI) Work efficiency of all the entities involved (from Prosecutor to LEAs up to Admin dept) is an additional advantage. A real case will be showed, including a ROI (return of investment) calculation.

Eugenio Bottinelli, Product Manager MCR Office, **AREA**

9:00-9:30

The Data Retention Challenge

Group 2000 will discuss the challenge and solution for Data Retention.

Willem Carel van Setten van der Meer, Solution Architect Data Retention, **Group2000**

10:00-10:30 - SESSION A

The Realities Of Dealing With Data Retention Mandates

With only an hour's notice, telecoms operators (telcos) must be prepared to hand over call records backdated up to two years on an individual in accordance with mandates such as the European Directive on Data Retention. This presents an interesting challenge: How do telcos stay at the forefront of recent industry changes such as VoIP and pre-paid services, while at the same time dealing with these new mandates? It's a harsh reality to grapple with when it involves combing through as many as 50 million subscriber records for the needed information – all without impacting customer service. This presentation will discuss effective strategies for meeting the European Directive on Data Retention, while also allowing your network the flexibility to keep up with the sifting telcos landscape.

Joe Hogan, CTO and Founder, **Openet**

10:30-11:00 - SESSION B

Data Retention For Everyone

Ericsson ADRS (Automatic Data Retention Solution) is adaptable for any Network or Service Provider's need of complying with national Data Retention regulations, ranging from full turnkey delivery of products and services to a complete outsourced operation.

Kjell Yving, Senior Sales Manager, **Ericsson**

10:30-11:00

It Is More Than Retention – Multi-Standard, Multi-Vendor Management Solution For Data Retention Compliance

This session will present a low cost and flexible Data Retention Solution which allows small

and large service providers to comply with Data Retention mandates based on standards or on local requirements. Will also explore more than the Retention challenges, presenting the features and functionalities that a Data Retention solution must offer to manage requirements over multi-vendor networks and to deliver the retrieved data to Law Enforcement Agencies, even when requirements are not fully based on standards, such as ETSI. The solution's architecture options to achieve a high performance and low CAPEX retention will also be discussed.

Benjamin Pena Isla, Marketing Manager, Suntech Intelligent Solutions

Special ETSI/TC LI Program Session: Standardization Overview on Lawful Interception and Retained Data Handling

13:00-13:30

General Overview On The Work In ETSI/TC LI And Details On LI Standardization

ETSI/TC LI is the Technical Committee within ETSI responsible for the standardization of the interface between Operator and Law Enforcement Agencies for the handover of Lawful Intercepted and Retained Data. A Short Introduction on ETSI and ETSI/TC LI will be given. The work and the status of the work performed in ETSI/TC LI will be shown. The ETSI LI specifications will be introduced in general and some more details are given on Circuit Switched interception.

Peter van der Arend, Chairman, ETSI/TC LI

13:30-14:00

Security Framework For LI And RD

The Security framework for LI and RD describes the internal and external threats for LI/DR systems and the recommended security measures that should be implemented in order to protect the confidentiality, integrity and availability of the information, and to assure that the interception and retention mechanisms are not misused. This presentation will give an overview of the contents of this future ETSI Technical Report.

Vassilis Stathopoulos & Eugenia Nikolouzou, Hellenic Authority for Communications Privacy

14:30-15:00

Interception Domain Architecture For CS And IP Networks

The increase in complexity of telecommunication systems poses new challenges for service providers to meet requirements for Lawful Interception. This presentation will describe high level architectures for how to access and deliver the required information. Technologies for interception in traditional circuit switched as well as IP networks will be presented. A general reference architecture for access to communication data and content of communication will be shown.

Stefan Bjornson, Ceccratech and 1st Vice Chairman, ETSI/TC LI

15:00-15:30

IP Interception: VoIP, E-Mail, WLAN ...

Interception of (voice over) IP sessions and e-mail has become a major focus point for most law enforcement agencies. ETSI/TC LI covers this need by producing clear standards for the handover of intercepted IP, voice over IP and e-mail. This presentation will give insight in the various IP handover specifications TC LI produced up to date.

Mark Lastdrager, CEO, Pine Digital Security

16:00-16:30 - SESSION A

Requirements For Handling Of Retained Data

Data Retention is for Law Enforcement in some respect more important than Lawful Interception. It is the start of many investigations. The EU Data Retention Directive confirms these needs and sets a move from delivering available information to mandatory retention for law enforcement purposes. ETSI/TC-LI is the group to standardize Data Retention to make efficient implementations feasible. The EU Data Retention Directive and the additional requirements from individual countries had therefore to be worked out in detail in TC-LI.

Koen Jaspers, PIDS, The Netherlands Ministerie

16:30-17:00 - SESSION A

Handover Interface For Retained Data

Data retention provides vital information to law enforcement agencies but the number of challenges and issues in this space is increasing rapidly. At ETSI we are addressing one of these challenges: how to exchange information between service providers and government. We are developing an interface to request and deliver retained data in a clear, comprehensible, accurate and secure manner. Our interface is designed with current and future challenges in mind and has the support of representatives from government, service providers and equipment manufacturers. Mark will briefly explain what we are doing at ETSI and how it can be of use to everyone involved in data retention.

Mark Shepherd, NTAC Consultant of Security, Detica

16:00-16:30 - SESSION B

Data Retention For Intelligence Support Systems Market

Andrea Fabrizi, General Manager, HP Dragon, Hewlett Packard Company

16:30-17:00 - SESSION B

“The Devil Is In The Details”

After the Madrid bombings, the EU now requires all European telecommunication and Internet service providers to retain all call detail records (CDRs)/data for up to Two years, with the ability to retrieve them quickly to access criminal activities. Under Phase 2 of the directive, which becomes effective by March 2009, these companies will also need to retain and report on various IP records, including VoIP and e-mails and correlate these with call and SMS records. This additional requirement is expected to generate six to eight times the volume of stored records as Phase 1 but will require similar short response times to Law Enforcement Requests. Currently, mobile phone records are putting murderers behind bars for life. So, what are the telcos to do to meet these requirements and how can they assist law enforcement to do their jobs more effectively? Agora, along with SenSage will provide best practices to meet the EU criminal tracking mandates by the deadline.

Mauro Bonfanti, CEO, Agora

Charlie McAlister, Director of EMEA, SenSage

Friday, 3 October 2008

8:30-9:30

3GPP SA 3 LI Handling US And European Needs

3GPP SA3 LI is handling the needs of all 3GPP member organization ARIB (Japan), ATIS (USA), CCSA (China), ETSI (Europe), TTA (Korea), TTC (Japan). But their main contributors are from the USA and Europe. Current topics are Rel.8 of 3GPP

(LTE/SAE/EPS), details for IP conferencing, LI for Common IMS.
Bernhard Spalt, Chair of 3GPP SA3 LI since April 2006 / Nokia Siemens Networks

10:00-10:30

Next Generation Data Retention Solution: Leveraging Data Retention For BI Applications
Liron Langer, VP Product Marketing, STAR-GATE, Verint Systems

10:30-11:00

Target Monitoring In A Retained Data Environment
Shai Issler, VP Marketing and Business Development, NICE Systems

Track 4: ISS For Audio Video Forensics And Biometric Speaker Identification

This track is only open to Law Enforcement, Intelligence Analysts, Interior Security and Other Government Agents.

Thursday, 2 October 2008

8:30-9:30

Understanding Voice Biometric Speaker Identification For Criminal Investigators And Intelligence Gathering
Dr. Emilio Martinez (PhD Physics), CEO, Agnitio SL

10:00-11:00

State-Of-The-Art Forensic And Intelligence Voice Biometrics Implementations
This presentation will be looking at the applications and deployments of voice biometrics as a tool for Forensic Evidence and Forensic Intelligence. It will also address how voice biometrics has evolved from use in forensic verification to forensic identification (1:N)
Dr. Emilio Martinez (PhD Physics), CEO, Agnitio SL

13:00-14:00

Building A State-Of-Art Forensic Audio Video Forensic Laboratory. Laboratory Integration With Large Scale Biometric Speaker Identification Technologies Available Today.
David Robinson, Consultant, Audio/Video Forensic Laboratory Design & Training

14:30-15:00

The Scope Of Different Automatic Speaker Identification Methods
There are a number of methods for automatic speaker identification by voice. The most wide-spread is the one based on Gaussian mixture models (GMM). However, the most efficient systems combine several different methods since each method has its own limitations. These limitations are concerned with the length and quality of a speech signal, emotional state of a speaker, large time gap (e.g. several years) between the recordings to compare, etc. Simple but scientifically founded recommendations on the use of different speaker identification methods (spectral method, pitch statistics and GMM) for voice biometrics are presented
Ivan Siparov, Expert in Audio Acoustics, Speech Technology Center

16:00-17:00

Preparation And Submission Of Biometric Speaker Verification Evidence Within A Court Environment
Prof. Dr. Hermann J. Kunzel PhD Phonetics

Friday, 3 October 2008

10:00-10:30

Speaker Authentication Activities Overview

After a description of the state of the art of core technologies applied in speaker authentication, the presentation will be focused on lawful interception and communications network surveillance. The emphasis of this technical presentation is on the description of system architecture and also on interface capabilities description between existing lawful interception products and speaker authentication systems.

*Bertrand Ravera, **Thales Group***

Track 5: LEA Intelligence And Defense Analyst Training And Product Demonstration Track

This training and product demonstration track is open only to Law Enforcement, Intelligence, Defense Analysts and other Government Executives.

Wednesday, 1 October 2008

13:15-14:15

Mobile Surveillance, Location Technology And Satellite Monitoring-Demonstration

ThorpeGlen solutions provide real-time tracking and historic monitoring of targets nationally – providing a geographic profile that enables investigators to take the next step in closer surveillance or final apprehension. Given that most savvy targets are changing their handset and SIM regularly – the challenge in tracking changing target numbers is an area we specialize in. We will provide a demonstration of our system with a Case Study to track and locate a target given an old Mobile phone number – knowing that NOW the target is probably using a different SIM and handset – to locate where the suspect lives. With “easy to use” buttons in our system it does not rely on detailed Telecommunications knowledge by the Analyst to track and locate a target within minutes – all details are able to be viewed in graphical form – without having to export data to other graphical applications. Simple click of a button to produce link chart, timelines, target details and target location on maps. We will demonstrate how fast this can be done – the outcome is to increase case throughput and obtaining target location information quickly – which in many cases may mean saving lives or assets.

*Vincent Barry, Vice President Sales and Marketing, **ThorpeGlen***

14:45-15:45

FinFisher: Next Generation IT Surveillance

*MJM, IT Intrusion Expert, **Gamma Group***

16:15-17:15

Klarios® IDA – Retained Data Analysis As An Enhancement To The Klarios® Monitoring Centre, Powered By InfoZoom®

Data Retention laws/regulations make large repositories of historical data available to law enforcement, yet without any integrated analysis or evaluation functions. Adding data retention interfaces (RDHI) to the Klarios® Monitoring Centre and correlating historical data with lawful interception data/records opens up a world of opportunity in intelligence gathering. This presentation will focus on how Klarios® IDA can be used as a powerful analysis tool to bridge the gap between retained data and lawful interception content.

*Nagui Erian, **ATIS system***

Thursday, 2 October 2008

8:30-9:30 - SESSION A

Klarios® Monitoring Centres – Creating Investigative Value Using Integrated Search And Analysis Functions

Data Search and analysis solutions are rapidly gaining popularity, not only in the lawful interception world, as they introduce content awareness into the traditional data warehousing environment. This presentation provides an overview of how these technologies are integrated in Klarios® Monitoring Centre solutions and how these can add value to the investigative process.

Alessandro Guida, ATIS system

8:30-9:30 - SESSION B

A Software-Based Approach To High Accuracy Wireless Location For Surveillance Applications

Polaris Wireless is a global leader in providing high accuracy, software-only, location systems for emergency services, public safety, security and surveillance applications and location-based services. Polaris' patented WLS technology can be used for locating and tracking individual users, groups of users or all users in bulk, across all environments, including indoors, making it extremely compelling for demanding safety, security and surveillance applications.

Bhavin Shah, Director of Marketing and Business Development, Polaris Networks

10:00-11:00 - SESSION A

ReveaLinX: The Official Launch Of Our Revolutionary Link Analysis Tool In Europe

Karanvir Singh, President, Kommlabs

10:00-11:00 - SESSION B

Demonstration Of Zebra Passive Surveillance System For Satellite Network, PLMN And PSTN Interception

The Zebra system utilizes commercially available hardware to passively capture and store massive volumes of traffic, using filters to extract known targets or to reach back into the past to analyze actual content of communications between previously unknown parties. The resulting intelligence benefits, as well as the advantages of using software-based satellite DCME and fax/data demodulation solutions, integrated into Zebra, will be demonstrated.

Deon Wolfswinkel Andre Scholtz, VASTech

13:00-14:00 - SESSION A

Investigation Scenario Based Product Demonstration

Meron Colbeci, Product Manager, NICE Systems

13:00-14:00 - SESSION B

When DR Becomes A Reality In The World Of The CSPs The LEAs Can Not Stay Behind.

Verint's X-TRACT TCA provides the LEAs with an End-to-End Collection and Analysis solution for CDRs derived from the following sources: Historical Data files, LI Monitoring Centers enriched with phonebook data, cell location data and mobile phone forensic files.

Verint Systems

14:30-15:30 - SESSION A

Fox Replay Analyst Interception Analysis For Full-Content Reconstruction Of Intercepted Traffic – Hands On Demo With Representative Test Data

Fox Replay Analyst is a powerful and user friendly system for analyzing intercepted IP and VoIP traffic, specially designed for government use. It is aimed at non-technical as well as

technical employees. Fox Replay allows general analysts to simply see the reconstructed data, which forms a virtual video tape of the original communications, nearly identical to how the target experienced it. Meanwhile, technical specialists can recover forensic details and build further tools on top of Fox Replay Analyst.

*Bert Hubert, CTO Fox Replay Analyst, **Fox-IT***

14:30-15:30 - SESSION B

DigiNet II: A Live Demonstration

DigiTask showcases its solutions for the interception, decoding and visualization of IP based telecommunications. DigiNet II is a database supported analyzing unit, which can easily be integrated in an existing LEAs infrastructure. It supports decoding, reassembling and presentation of the recorded data in real time. All information is presented in an intuitive and user-friendly GUI.

***DigiTask GmbH**, speaker to be announced*

16:00-17:00 - SESSION A

Beyond Interception With GENESI™ Platform

A new approach to Communications & Content monitoring with unique technologies for information discovering, analysis and filtering.

*Paolo Alessandro Mari, Marketing and Communications, **IPS Intelligence & Public Security***

16:00-17:00 - SESSION B

Remote Forensic Software: A Live Demonstration

DigiTask presents its solution for the interception of encrypted VoIP clients like Skype, the decoding of SSL and other encrypted traffic as well as tools for the remote monitoring of user activity.

A live demonstration shows how much additional information can be gained by applying their solution, compared to the passive tapping of IP traffic.

The optional integration of the remote forensic software into their IP decoding system allows investigators to analyse all intercepted data using a single frontend.

*Michael Thomas, **DigiTask GmbH***

Friday, 3 October 2008

8:30-9:30 - SESSION A

Investigation And Profiling In P2P Networks

P2P networks are widely know to be massively used to exchange copyright-protected content. While this is certainly of interest to law enforcement agents, their use for the exchange of information related to terrorism or child pornography is much more significant. We present our unique P2P investigation system with a proven record in court-proof investigation of copyright infringements in file sharing networks. We show how this system can be deployed to profile and investigate the use of P2P networks by criminals trying to covertly exchange information.

*Hendrik Schulze, CEO, **ipoque***

8:30-9:30 - SESSION B

Solving LI Challenges With User-Friendly And Integrated Platforms

Nomadic and versatile targets embrace on-line communication and engage in communication at multiple locations using a variety of network providers. ETI presents an integrated LI platform that interfaces to multiple networks. Come and see how this platform enables you to investigate targets who use multiple media and how dedicated focus on

usability can make complex tasks easy.

Kim Larsen, Business Development Director, ETI A/S

8:30-9:30 - SESSION C

Clear Vision In The Haystack – Comprehensive Technology Solutions For Large Integrated Monitoring Systems

Dr. Zsolt Kohalmi, President, NETI

Zoltán Peller, System Engineer, NETI

10:00-11:00 - SESSION A

An Integrated Platform For All Your Lawful Interception Activities

The MCR System offers an integrated system to capture and analyze data from any source of transmission and to obtain a comprehensive overview that supports and provides added value to investigative work. All LI activities and services are integrated into one platform. With its high scalability and customization, MCR will transform any installation into a unique and highly valuable project. A real case-study will show the main features of this application.

Emanuele Marcozzi, Product Engineer, AREA

10:00-11:00 - SESSION B

REMOTE CONTROL SYSTEM V5: A Stealth, Spyware-Based System For Attacking, Infecting And Monitoring Computers And Smartphones. Full Intelligence On Target Users Even For Encrypted Communications (Skype, PGP, Secure Web Mail, Etc.)

David Vincenzetti, Partner and Valeriano Bedeschi, Partner, Hacking Team

10:00-11:00 - SESSION C

HP Data Retention And Guardian Online (HP DRAGON) – Communications Data Retention Solution

Andrea Fabrizi, General Manager, HP DRAGON, Hewlett Packard Company

11:30-12:30 - SESSION A

Intelligence Led Security

Lyle Singular, Director, Absolute Software

11:30 – 12:30 - SESSION B

Product Demonstration For Agnitio's Voice Biometrics Forensic Applications

Beatriz González Sigüenza, Business Development, Agnitio

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