

# ISS World<sup>®</sup> Europe

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

14-16 JUNE 2011 • CLARION CONGRESS HOTEL • PRAGUE, CZ



**ISS World Europe** is the world's largest gathering of European law enforcement, intelligence, defense, homeland security analysts and telecom operators responsible for lawful interception, electronic investigations and network intelligence gathering.

For more information about the program, click on the track name below -- or see the agenda at a glance for a summary of the sessions.

[Track 1: ISS for Telecom Operator Lawful Interception](#)

[Track 2: ISS for Criminal Investigation](#)

[Track 3: ISS for Data Retention and Regulatory Compliance](#)

[Track 4: ISS for Mobile Location Surveillance and Intercept](#)

[Track 5: DPI for Lawful Interception and Cyber Security](#)

[Track 6: ISS for Intelligence Gathering and Analysis](#)

[Track 7: LEA and Intelligence Analyst Training and Product Demonstrations](#)

[Pre-Conference Seminars and Tutorials \(14 June 2011\)](#)

---

## ISS World Europe- Conference Agenda at a Glance 14-16 June 2011

### Pre-Conference Training Seminars

(PRE-CONFERENCE SESSIONS DESCRIBED AT THE END OF AGENDA POSTING)

#### Tuesday, 14 June 2011

8:30-16:30

**Online Social Media and Internet Investigations** (Six One Hour Sessions)

Presented By

Charles Cohen,

**Cohen Training and Consulting, LLC**

Charles Cohen also holds the position of Commander, Special Investigations and Criminal Intelligence, **Indiana State Police, USA**

8:30-16:30

**Implementation of a Tactical Communications Analytical Unit in Your Agency** (Six One Hour Sessions)

*Jill Hammond, Senior Analyst, NTI Law Enforcement Services*

13:00-16:30

**OSINT Tactical, Strategic and Tradecraft for Law Enforcement and Intelligence Analysts** (Three One Hour Sessions)

Steve Edwards, **OSINT Training**, Steve Edwards has completed 30 years of service as a detective intelligence officer with the **UK National Crime Squad and SOCA**

8:30-12:00

**Understanding Telecommunications Technologies for LEA Investigators and Intelligence Analysts** (Three One Hour Sessions)

*Presented By: Dr. Jerry Lucas, President, **TeleStrategies***

13:00-16:30

**Basics of Internet Intercept for Law Enforcement and Intelligence Analysts** (Three One Hour Sessions)

*Matthew Lucas (Ph.D, Computer Science), Vice President, **TeleStrategies***

9:45-10:45

**ETSI/TC LI Standard Update**

*Peter Van der Arend, Chairman, **ETSI/TC LI***

11:00-12:00

**eWarrant/HI-1 Standard Update**

*Tony Rutkowski, VP, **Yaana Technology***

**(PRE-CONFERENCE SESSIONS DESCRIBED AT THE END OF AGENDA POSTING)**

**Wednesday, 15 June 2011**

**Welcoming Remarks**

8:15-8:30

*Tatiana Lucas, ISS World Program Director, **TeleStrategies***

8:30-10:00

**Top Ten Internet Challenges Facing Law Enforcement and the Intelligence Community**

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

*Panel:*

*Derek Roga, VP, SS8*

*Rudolf Wunschuh, Business Development, Utimaco LIMS*

*Marco Braccioli, Senior VP, IPS*

*Chris MacFarlane, President, ETI Connect*

*Jerome Tollet, CTO, Qosmos*

*Manohar Katoch, Director, ClearTrail Technologies*

*Jesper Mathiesen, trovicor*

### **ISS World Europe Exhibits**

Wednesday, 15 June

10:00 - 18:00

Thursday, 16 June

10:00 - 12:30

---

## **Track 1: ISS for Telecom Operators and 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, 15 June 2011**

11:00-12:00	<p><b>LI for New IP Services “Best Practices” Guru Panel</b></p> <p><i>Rasmus Sparre, Solution Manager, ETI</i></p> <p><i>Steve Patton, Telesoft Technologies</i></p> <p><i>Jerome Tollet, CTO, Qosmos</i></p> <p><i>Klaus Mochalski, VP Market Development, ipoque</i></p> <p><i>Yoram Ehrlich, NICE</i></p> <p><i>Cristian D’Incertopadre, International Operations, IPS</i></p> <p><i>James Mullins, VP, SS8</i></p> <p><i>René Nitzinger, Utimaco LIMS</i></p> <p><i>Jeff Zindel, Vice President of Marketing, Glimmerglass Networks</i></p> <p><i>Bert Hubert, Fox- IT</i></p> <p><i>Alessandro Mordacci, Senior Advisor, Ericsson</i></p> <p><i>Manohar Katoch, Director, ClearTrail Technologies</i></p>
13:30-14:00 Session A	<p><b>Understanding passive monitoring techniques for Mass Intercept and Mass Location Tracking</b></p> <p><i>Steve Patton, Telesoft Technologies</i></p>
13:30-14:00 Session B	<p><b>The New Generation of Monitoring Center addresses today's challenges in LI</b></p> <p><i>Solution Architect, trovicor</i></p>
14:00-14:30 Session A	<p><b>Challenges of Webmail Interception and Analysis</b></p> <p><i>James Mullins, VP, Europe Sales, SS8</i></p>
14:00-14:30 Session B	<p><b>Managing the Flood: Intelligent Optical Signal Access and Monitoring</b></p> <p><i>Glimmerglass Networks presenter to be announced</i></p>
14:30-15:00 Session A	<p><b>Not able to Monitor HTTPS and other secured IP communications? Do Active Interception</b></p> <p><i>Anand Bhargava, Sr. Director of Technology, ClearTrail Technologies</i></p>

- 14:30-15:00 Session B **Access Switching - Identifying the Needle in the 10/40/100G Haystack**  
*Sharon Besser, VP of Technology, Net Optics*
- 15:30-16:00 Session A **Active or Passive Interception, or both, that's the question**  
*Alessandro Mordacci, Senior Advisor, Ericsson*
- 15:30-16:00 Session B **From Gigabits to Terabits: Why you want to work smarter and not harder**  
*Chris MacFarlane, President, ETI Connect*
- 16:00-16:30 Session A **Lawful Interception in Broadband Wireless Networks (WiMAX, LTE)**  
*René Nitzinger, Utimaco LIMS*
- 16:00-16:30 Session B **New Advanced Services for Supporting LEA in Lawful Interception Activities**  
*Paolo Mario Finzi, Sales VP, RCS*
- 16:45-17:15 **Threats from Social Networks: Challenges and Solutions for Communication Monitoring and Intelligence Analysis**  
*Ugo Santillo, IPS-RESI Group*

## Thursday, 16 June 2011

- 8:30-9:00 **"Proxy Wars"**  
*Hendrik Schulze, CTO, ipoque*
- 9:00-9:30 **Innovative Investigation Solutions in a Complex IP World**  
*Nir Yanovsky, NICE*
- 10:30-11:00 **Automatic Discovery and Interception of International Leased Line Services**  
*Jess Price, VP Sales and Marketing, NetQuest Corporation*
- 11:00-11:30 **Why Terabits is not a Challenge**  
*Chris MacFarlane, President, ETI Connect*
- 11:40-12:05 **Converging Networks, Exploding Bandwidth, Complex Communications and Simplified MASS MONITORING**  
*Manohar Katoch, Sr. Director, ClearTrail Technologies*

12:05-12:30	<b>Pradigm Shifts in Optical Signal Access and Monitoring for CSPs and LEAs</b> <i>Glimmerglass Networks, presenter to be announced</i>
13:00-13:30	<b>Broadband and VoIP Transforms LI</b> <i>Alessandro Mordacci, Senior Advisor, Ericsson</i>
13:30-14:00	<b>IPv6 Migration Strategies must include LI-forgetting this can be very costly</b> <i>Mark Uldahl, Solution Expert, ETI Connect</i>
14:15-14:45, Session A	<b>Intelligence Solutions for LEAs</b> <i>Head of Sales ACE, trovicor</i>
14:15-14:45, Session B	<b>"LI LTE Ready"</b> <i>Cristian D'Incertopadre, International Operations, IPS</i> <i>James Mullins, VP, SS8</i>
14:45-15:15	<b>Transforming TDM networks into IMS based networks</b> <i>Leopold Murhammer, Product Manager, Siemens AG Austria</i>

---

## Track 2: ISS for Criminal Investigations

This track is for Law Enforcement, Intelligence and Cyber Security Analysts who have investigation responsibilities associated with telecommunications networks.

### Wednesday, 15 June 2011

9:00-9:30 Session A	<b>Voice Biometrics Use Cases: Law Enforcement, Intelligence, Theater Operations</b> <i>Angelo Ferraris, Loquendo</i>
---------------------	--

- 9:00-9:30 Session B      **The Next big Problem - Mobile-Based Cyber Crime**  
*Mark Dempster, Senior Manager, Detica*
- 9:30-10:00 Session A      **Using Voice Biometrics for Multi-Lingual Speaker Verification in a Forensic Environment**  
*Prof. Herman Kunzel, University Marburg*
- 9:30-10:00 Session B      **IP Based Investigations-Not Only for Forensics**  
*Jack Zeitune, Verint Systems*
- 11:00-11:30                **Target Identities in Network Communications - Hard to Obtain (or Rather Easy)?**  
*Rudolf Winschuh, Business Development Manager, Utimaco LIMS*
- 11:30-12:00                **An Operational Overview of Monitoring Encrypted Data on Computers and Mobile Phones**  
*MJM, IT Intrusion Expert, Gamma Group*
- 13:30-14:00                **Preventing Cyber Crime**  
*Mark Dempster, Senior Manager, Detica*
- 14:00-14:30                **Live Decoding of Social Networks**  
*ATIS systems Presenter To Be Announced*
- 15:30-16:00                **Leveraging IP Metadata to Optimize Monitoring Center Performance**  
*Jerome Tollet, CTO, Qosmos*
- 16:00-16:30                **The Application of Real-time Voice Identification Technology to spot the Speakers Changes During Phone Conversation**  
*Andrey Barinov, Head of Voice Biometric Department, Speech Technology Center*
- 16:45-17:15                **Active IP Intrusion, Infection, Blocking and Shaping within Backbones**  
*MJM, IT Intrusion Expert, Gamma Group*
- 17:15-17:45                **Investigation from Governments' and LEAs' point of view**  
*Guglielmo Caruso, WW Delivery Lead, HP Investigation Solution*

**Thursday, 16 June 2011**



8:30-9:00	<b>Revolutionizing Mobile Forensics</b> <i>Meir Vazana, Cellebrite</i>
9:00-9:30	<b>How IPv6 improves investigators work</b> <i>Henrik Dalby Kristiansen, Strategic Product Manager, ETI A/S</i>
10:30-11:00	<b>The Distinct Roles and Values of an End-to-End IP Intercept Solution</b> <i>Derek Roga, Senior VP, Business Development, SS8</i>
11:00-11:30	<b>Digital Footprint-Are you aware of your Digital Traces?</b> <i>ATIS systems To Be Announced</i>
13:00-13:30	<b>Overview of the whole investigation solution portfolio</b> <i>Balazs Tapasztó, Solution Marketing Manager, HP Investigation Solution</i>

---

## Track 3: ISS for Data Retention and Regulatory Compliance

This track is for Law Enforcement, Interior Security and the Intelligence Community who have to work with cellular and mobile satellite operators to locate targets and intercept communications.

### Wednesday, 15 June 2011

13:30-14:00	<b>Investigation for Communication Service Providers</b> <i>Andrea Fabrizi, General Manger, HP Investigation Solution</i>
16:45-17:45	<b>Data Retention and Hand Off Future Challenges Guru Panel</b> <i>Christian D'Cunha, D G Home Affairs</i> <i>Peter Van der Arend, Chairman, ETSI/TC LI</i> <i>Dirk Schrader, Sales Director, Utimaco LIMS</i>

*Giuseppe Carnevale, Product Manager, Ericsson*

*Andrea Fabrizi, General Manager, HP Investigation Solutions*

*James Mullins, VP Management, SS8*

*Sandy Hall, Executive Director, AT&T*

## Thursday, 16 June 2011

8:30-9:00

**Metadata Extraction and Retention for IP Applications**

*John Senior, Sales Engineer, SS8*

9:00-9:30

**Investigation service offer as Enterprise Repository solution**

*Andrea Fabrizi, General Manager, HP Investigative Solutions*

10:30-11:00

**SMS, the Forgotten Source of Intelligence!**

*Dirk Schrader, Sales Director, Utimaco LIMS*

11:00-11:30

**Clear Requirements needed for Managing a Complex Situation**

*Kjell Yving, Sales Manager, Ericsson*

11:40-12:05

**Network Address Translation: Addressing the Challenge**

*Alan Burnett, Intercept Solutions Product Manager, Roke*

12:05-12:30

**IP Data Retention Solution Based on NetFlow**

*INVEA-TECH presenter to be announced*

---

## Track 4: ISS for Mobile Location, Surveillance and Intercept

This track is for Law Enforcement, Interior Security and the Intelligence Community who have to work with cellular and mobile satellite operators to locate targets and intercept communications.

## Wednesday, 15 June 2011

- 9:00-9:30                    **LI Positioning, grasp the new opportunities in a changing world**  
*Sten Lundell, Sales Manager, Ericsson*
- 9:30-10:00                **Leveraging High Accuracy Mobile Phone Location Intelligence to Identify and Locate Criminal and Terrorist Activity**  
*Brian Varano, Director of Marketing, TruePosition*
- 11:00-11:30              **Mobile Location Tracking that is based on an Integration of an in network GMLC and Tactical Cellular Location Direction Finders**  
*Oren Pelleg, Septier*
- 11:30-12:00              **Overview of Location Technology for Mission Critical Applications**  
*John Ghabra, Sr. Manager, TruePosition*
- 13:30-14:00              **Turning Location Data into Meaningful Intelligence**  
*Nir Yanovsky, NICE*
- 14:00-14:30              **Civilian Police Search & Rescue Operations with GSM Geo-location**  
ELTA Systems Speaker to be announced
- 14:30-15:00 Session A    **Network Centric Steering of Target's Communications in GSM Networks**  
*Ivan Bakardzhiev, Managing Director, Applicata*
- 14:30-15:00 Session B    **Lawful Intercept Needs Location Data, How do you build the ideal Passive Probe to Provide It?**  
*Stuart Connelly, Business Development, Partner Management, Agilent Technologies*

## Thursday, 16 June 2011

- 10:30-11:00              **Targeted satellite monitoring - a frontier within reach**  
*Fabrizio Diantina, Sales Executive, VASTech*

11:00-11:30      **Extending Accurate Location and Presence Information to the Indoor Arena**  
*Coline Bryce, Director, Bus Development EMEA & APAC, CommScope*  
*Bertrand Casse, Manager, Business Development, CommScope*

---

## Track 5: DPI and Intelligent Probes for Lawful Interception and Cyber Security

This track is for telecom operators, law enforcement, intelligence analysts or just about anyone who has to understand Deep Packet Inspection (DPI) technologies, product availability, applications and other issues facing telecom operators who deploy DPI infrastructure

### Wednesday, 15 June 2011

11:00-11:30      **DPI at 100G - System Architectures for High Performance Packet Inspection**  
*Karl Wale, Continuous Computing*

11:30-12:00      **The Art of Application Decoding**  
*Jens Geier, Product Manager, ipoque*

13:30-14:00      **Validating the Resiliency of DPI-Capable Devices Under Maximum Application and User Load**  
*Gregory Fresnais, International Business Development Director, BreakingPoint Systems*

14:00-15:00      **Best DPI Intelligence Probes for Lawful Interception, Network Security and Traffic Management**  
*Jerome Tollet, CTO, Qosmos*  
*Klaus Mochalski, VP Market Development, ipoque*  
*Andrea Ghirardini, AREA*  
*Gregory Fresnais, International Business Development Director, BreakingPoint Systems*

15:30-16:00                    **Interception and intelligence gathering-Impact of growing Bandwidth and new IP Applications**

*Derek Roga, SVP EMEA Sales, SS8*

16:00-16:30                    **DPI for Lawful Interception in Telecommunications Networks**

*Steve Patton, Telesoft Technologies*

## **Thursday, 16 June 2011**

8:30-9:00                      **The Key Role of Network Intelligence Technology for Lawful Intercept**

*Duncan Curry, Director Northern Europe, Qosmos*

10:30-11:00                    **How to generate high level reports based on different sensor input**

*Bernd-Otto Wolf, MEDAV*

11:00-11:30                    **The Impact of Optimized Packet Processing Software on Multi Core Platforms for DPI and Network Security**

*Paul Stevens, Telecom Sector Marketing Director, Advantech*

*Eric Carmes, CEO, 6WIND*

11:40-12:05                    **Social Network Analysis Techniques for Analyzing Intercepted IP Communications**

*James Mullins, VP Europe Sales, SS8*

12:05-12:30                    **Mass IP Interception-capturing and securing mass data**

*Innovation Manager, trovicor*

13:00-13:30                    **A Human-centric Approach to IP Investigation**

*Paolo Mandelli, International Sales Director, AREA*

13:30-14:00                    **Validating Lawful Intercept Systems Work Each Time, Every Time**

*Gregory Fresnais, International Business Development Director, BreakingPoint Systems*

14:15-14:45                    **40GE Intelligent IP Packet Capture LI Probe**

*Peter Kastovsky, INVEA-TECH*

14:45-15:15                    **Scaling Intelligence Solutions to 40 Gbps and Beyond**

*Dan Joe Barry, Napatech*

15:30-16:00

**Smart phones, security and applications**

*Alessandro Mordacci, Senior Advisor, Ericsson*

---

## Track 6: ISS for Intelligence Gathering and Analysis

ISS for Intelligence Gathering and Analysis. This track is for intelligence analysts who must gather on-line intelligence by deploying visual analytics, data mining and OSINT programs.

### Wednesday, 15 June 2011

11:00-11:30

**A Stealth, Spyware-Based System for Attacking, Infecting and Monitoring Computers and Smartphones**

*David Vincenzetti, Partner, Hacking Team*

11:30-12:00

**New Trends in Data Analysis-handling Massive amounts of Data**

*Product Manager Analytics, trovicor*

13:30-14:00

**OSINT Solutions and Visualization**

*Mark Pfeiffer, SAIL Labs Technology*

14:00-14:30

**Modular Data Analysis Approach**

*Kai-Michael Lilie, PLATH GmbH*

14:30-15:00

**Efficient Cross-Search in Multiple Source Intelligence**

*Renaud Roques, Amesys*

15:30-16:00

**Communication Pattern Analysis-Detect What Your Targets Are Trying to Hide**

*Lior Polak, NICE*

16:00-16:30

**Social Media as a Rich Source of Actionable Intelligence in LI**

*Christian Prickaerts, Fox IT*

## Thursday, 16 June 2011

8:30-9:00

**Mass IP Metadata Analysis-Challenges and Solutions**

*Alex Bacik, SS8*

9:00-9:30

**Identity Management in the LI: the key to Identify the New Era Targets**

*Emanuele Marcozzi, Presales Engineer, AREA*

11:40-12:05

**Speech Intelligence Platform-How to Mine Data from Speech Records**

*Petr Schwarz, Phonexia*

12:05-12:30

**Fusion Centre: A modern workflow management system to manage the information flood**

*Bernd-Otto Wolf, MEDAV*

13:00-13:30

**Smart, Visual, Collaborative - Semantic Knowledge Management in the Context of Intelligence**

*Mirko Boettcher, Software Architect, PLATH GmbH*

13:30-14:00

**New Generation of Speaker Identification Technology**

*Pavel Matejka, Phonexia*

14:15-14:45

**Location & Social Media as Open Source Intelligence**

*Lew Nelson, Chief of Police (ret.), ESRI Global Law Enforcement Director, ESRI*

---

## Track 7: 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, 15 June 2011

9:00-10:00, Session A	<b>Government IT Intrusion: Applied Hacking Techniques used by Government Agencies</b> <i>MJM, IT Intrusion Expert, Gamma Group</i>
9:00-10:00, Session B	<b>A New Platform for all your IP Lawful Interceptions</b> <i>Emanuele Marcozzi, Presales Engineer, AREA</i>
9:00-10:00, Session C	<b>Detecting parameters essential for unlocking intelligence from satellite carriers</b> <i>Charl van der Merwe, Regional Manager, VASTech</i>
11:00-12:00, Session A	<b>Demonstration of DPI and Network Intelligence Technology for Lawful Interception</b> <i>Sébastien Synold, Product Manager, Qosmos</i>
11:00-12:00, Session B	<b>Scalability, Archiving, Failover and Interface Improvements in the new Replay 3.0</b> <i>Bert Hubert and Dirk Peeters, Fox-IT</i>
14:00-15:00, Session A	<b>REMOTE CONTROL SYSTEM v7: The ULTIMATE WEAPON for attacking and covertly Monitoring PCs and Smartphones</b> <i>Marco Valleri, Senior Security Engineer, and Alberto Ornaghi, Senior Security Engineer, Hacking Team</i>
14:00-15:00, Session B	<b>Advanced Topics in LTE Interception</b> <i>Bernard Sarel, Verint Systems</i>
15:30-16:30, Session A	<b>Klarios® 2.0 - Investigative Work in a Web 2.0 Environment</b> <i>ATIS systems Speaker to be Announced</i>
15:30-16:30, Session B	<b>A Web Master Key™ for Social Networks Monitoring, Interception and Analysis</b> <i>Ugo Santillo, International Operations, IPS-RESI Group</i>
15:30-16:30, Session C	<b>Monitoring HTTPS Based Applications in the Changing Cyber World</b> <i>Sameer Fegade, Director Engineering, ClearTrail Technologies</i>
16:45-17:45, Session A	<b>End-to-End IP Collection and Analysis Demo</b> <i>Nir Yanovsky, NICE</i>
16:45-17:45, Session B	<b>Efficient Analysis and Case Management Tools-the prerequisites for successful LI</b> <i>Henrik Dalby Kristiansen, Strategic Product Manager, ETI A/S</i>



16:45-17:45, Session C      **Communication Profiling-Meta Data Analysis and Network Visualization**

*Mirko Böttcher, Software Architect, PLATH GmbH*

16:45-17:45, Session D      **Extracting Intelligence & Evidence from Accurate Location Technologies**

*Yochai Corem, Director of Product Marketing, Verint Systems*

## Thursday, 16 June 2011

8:30-9:30, Session A      **AGNITIO Voice Biometrics-BS3 Family, enabling new possibilities for tactical and strategic Communication Intelligence Gathering**

*E.Christian Moreno, Business Development Manager, Agnitio*

8:30-9:30, Session B      **Offensive IT Intelligence and Information Gathering Portfolio-An Operational Overview**

*MJM, IT Intrusion Expert, Gamma Group*

8:30-9:30, Session C      **How to Access Data Directly from PCs-an Interception Demo**

*Solution Architect, trovicor*

10:30-11:30, Session A      **REMOTE CONTROL SYSTEM v7: IN-DEPTH demonstration of INFECTION vectors and ATTACK techniques**

*Alberto Ornaghi, Senior Security Engineer, Hacking Team*

10:30-11:30, Session B      **VoiceNet RT-Real-time Speaker Spotting within Massive Voice Interception Systems**

*Matvey Zhokhov, International Sales, Speech Technology Center*

10:30-11:30, Session C      **Managing the Flood: Intelligent Optical Signal Access and Monitoring**

*Glimmerglass Networks speaker to be announced*

11:40-12:30, Session A      **ipoque DPX Network Probe**

*Jens Geier, System Architect, ipoque*

11:40-12:40, Session B      **Cellebrite UFED 2.0 Live Demo**

*Meir Vazana, Cellebrite*

- 11:40-12:30, Session C      **Sfera: an Advanced Investigation Tool for Metadata Analysis and Correlation**  
*Federico Ciceri, Area Manager, RCS*
- 13:00-14:00, Session A      **AGNITIO Voice Biometrics-ASIS for Lawful Interception, a nationwide voice biometric database to support identifications and track criminal activities**  
*Iain Robinson, Director Sales & Business Development, Northern Europe, Agnitio*
- 13:00-14:00, Session B      **Off-Air Cellular and Satellite Interception-Hybrid Solution**  
*Amir Barel, VP, Tactical Off-Air Solutions, Verint Systems*
- 13:00-13:30, Session C      **Social Network Monitoring and Analysis-how to gain new insights**  
*Principal Consultant, trovicor*
- 13:30-14:00, Session C      **Finding the needle in the haystack-an Analysis Demonstration**  
*Product Manager Analytics, trovicor*
- 14:15-15:15, Session A      **Challenges in Social Networks' Decoding**  
*Amir Kaushansky, Verint Systems*
- 14:15-15:15, Session B      **Data Fusion and Automated Threat Identification - The future of intelligence analysis for law enforcement**  
*David Chapman, Principal Consultant, Detica*
- 

## Pre-Conference Seminars and Tutorials

**Tuesday, 14 June 2011**

8:30-16:30    **Online Social Media and Internet Investigations** (Six One Hour Sessions)

Presented By

Charles Cohen,

**Cohen Training and Consulting, LLC**

Charles Cohen also holds the position of Commander, Special Investigations and Criminal Intelligence, **Indiana State Police, USA**

8:30-9:30: Session 1 of 6

**What Investigators & Analysts Need to Know about Online Social Media.**

This session is for criminal investigators and intelligence analysts who need to understand the impact of online social networking on how criminals communicate, train, interact with victims, and facilitate their criminality.

9:45-10:45: Session 2 of 6

**OSINT and Criminal Investigations**

Now that the Internet is dominated by Online Social Media, OSINT is a critical component of criminal investigations. This session will demonstrate, through case studies, how OSINT can and should be integrated into traditional criminal investigations.

11:00-12:00: Session 3 of 6

**Successful Use of Online Social Media in Criminal Investigations**

This session is for investigators who need to understand social network communities along with the tools, tricks, and techniques to prevent, track, and solve crimes.

13:00-14:00: Session 4 of 6

**Counterintelligence & Liabilities Involving Online Social Media**

Current and future undercover officers must now face a world in which facial recognition and Internet caching make it possible to locate an online image posted years or decades before. There are risks posed for undercover associated with online social media and online social networking Investigations. This session presents guidelines for dealing with these risks.

14:15-15:15: Session 5 of 6

**What Investigators Need to Know about Hiding on the Internet**

Criminal investigators and analysts need to understand how people conceal their identity on the Internet. Technology may be neutral, but the ability to hide ones identity and location on the Internet can be both a challenge and an opportunity. Various methods of hiding ones identity and location while engaged in

activates on the Internet, provides an opportunity for investigators to engage in covert online research while also providing a means for criminals to engage in surreptitious communication in furtherance of nefarious activities. As technologies, such as digital device fingerprinting, emerge as ways to attribute identity this becomes a topic about which every investigator and analyst may become familiar.

15:30-16:30: Session 6 of 6

**Cyberspace Money Laundering: Tools, Tricks & Techniques**

Today, every investigator and analyst must at least understand the basics of the Internet online monetary transactions in order to be effective. This session addresses eCash to online virtual stored value cards and from virtual currencies to mobile payment systems. The Internet is a panacea for the active or aspiring entrepreneurial criminal.

8:30-16:30 **Implementation of a Tactical Communications Analytical Unit in Your Agency**

*Jill Hammond, Senior Analyst, NTI Law Enforcement Services*

A detailed review of the equipment, hardware, software, analytical/reporting techniques, and concepts necessary to put into operation an analytical unit that can exploit communications records (Landline, cell, VoIP, Satphone, Prepaid calling cards, and emails) in support of criminal and national security investigations  
Function of a Tactical Communications Analysis Unit (TCAU)

Acquire real time and historical communications records and perform appropriate analyses to determine relationships, hierarchy, and organizational structure of co-conspirators and identify individual involvement in criminal and/or terrorist activities. Integrate the results of communications analysis with other intelligence information (activities, financial transaction, surveillance, etc.) collected during the investigative process to generate tactical leads that support the ongoing investigative process.

8:30-9:30

**Acquisition of communications records:** What to get (real time & historical). How much to get. Validating and understanding records received

9:45-10:45

**Preparing and formatting communications records for computer analysis.**

Hardware and software to pre-process raw communications records for electronic storage

11:00-12:00

**Understanding basic and advanced analytical concepts.**

Enhancing the results of basic contact communications analysis (frequency, common call, etc.). Advanced communications temporal analytical theory.

13:00-14:00

**Understanding the functionality you'll need in database & analytical software.** Functionality needed to support your operation. Database storage to properly hold communications and related records. Selecting advanced analytical software to perform contact and temporal direct and implied analysis of those records

14:00-15:00

**Presentation of findings** – Interpreting the results of computerized analysis of communications records and generating tactical leads. A new approach to writing and presenting analytical reports

15:30-16:30

**Building the TCAU** – Staffing- Choosing the right people and training. Working with vendors. Putting analytical workflow and operational procedures in place.

13:00-16:30 **OSINT Tactical, Strategic and Tradecraft for Law Enforcement and Intelligence Analysts** (Three-One Hour Sessions)

Steve Edwards

**OSINT Training**

Steve Edwards has 30 years service as a detective intelligence officer with the **UK National Crime Squad and SOCA**

13:00-14:00

**Tactical OSINT**

Today's needs, collection strategies, knowing your customer, audit trails, the importance of provenance and attribution versus plagiarism

14:15-15:15

**Strategic OSINT**

Strategy and collection plans, monitoring of extremist, terrorist groups and organized crime, country research; grey literature and machine translation.

15:30-16:30

**OSINT Tradecraft**

Expanded search methodology, identity protection, search engine breakdown, deep web and more.

8:30-12:00 **Understanding Telecommunications Technologies for LEA Investigators and Intelligence Analysts (Three One Hour Sessions)**

*Presented By: Dr. Jerry Lucas, President, TeleStrategies*

This pre-conference seminar is for law enforcement, interior security and intelligence analysts who have to understand telecommunications technology buzz words and jargon in order to communicate with telecom operator engineers regarding their Intelligence Support System (ISS) requirements regarding lawful interception, investigative analysis and intelligence gathering with intercept case study challenges. Seminar sessions include:

8:30-9:30

**Understanding Wireline Telecom Infrastructure and Interception**

What do LEAs need to know about the public switched telecommunications networks, circuit switching, fiber optics, SS7, SDH, DSL, billing systems and call detail records, standards overview for lawful intercept, basic LI elements (access, delivery and collection function), call information and call content data collection, SS7 probes and relevant telecom network elements. Circuit Switching vs. VoIP, SIP, SoftSwitches, Gateways, VoIP over Broadband, DSLAM's and PSTN Interconnection.

9:45-10:45

**Understanding Mobile Wireless Infrastructure and Interception**

Infrastructure basics (GSM, GPRS, EDGE, UMTS, HSPA and LTE), Wi-Fi, WiMax and Femtocells, How a cellular call is processed, back office infrastructure, HLR, VLR, Backhaul and PSTN interconnection, data services, SMS, MMS, EM, data services, fixed mobile convergence and IMS. The basics of mobile wireless technologies, A-GPS, AOA, TDOA, U-TDOA, WLS and location accuracy. Transforming cell records and location data into actionable intelligence, Smart Phone intercept and wireless provider business model, Apple iPhone, Google Android and LTE Challenges.

11:00-12:00

**Understanding the Internet and Lawful Interception**

What Investigators Have To Know about IP call Identifying Information, Radius, DHCP, DNS, etc. and Tracking an Internet Address to a Source, Investigations Involving E-Mail, Websites, Skype, Instant Messaging, Chat Rooms and Message Boards, IMS, P2P Networks and Deep Packet Inspection and what can be

done to address Internet intercept deploying ISS infrastructure, what can't be done without new legislation and future challenges law enforcement and the intelligence community faces.

13:00-16:30 **Basics of Internet Intercept for Law Enforcement and Intelligence Analysts**

*Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies*

13:00-14:00

**Understanding TCP/IP for Packet Traffic Analysis**

Learn the basics/fundamentals of IP network, including: key equipment components, network access types, service provider infrastructure, IP protocol basics, TCP protocols and applications.

14:15-15:15

**Understanding DPI for LEAs, Intelligence Analysts and Telecom Operators**

Learn packet intercept by example, including: intercept options, probe types, packet capture, packet analysis and application protocol decoding.

15:30-16:30

**Understanding Web 2.0, IM, P2P and Social Networking Messaging (Facebook, Twitter, ect.)**

Learn about advanced IP applications, including: social networking communications models, web2.0 apps, computing models and intercept options.

9:45- **ETSI/TC LI Standard Update**

10:45 *Peter Van der Arend, Chairman, ETSI/TC LI*

11:00-12:00 **eWarrant/HI-1 Standard Update**

*Tony Rutkowski, VP, Yaana Technology*