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
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)*

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**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 Winschuh, 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 LI for New IP Services “Best Practices” Guru Panel
Rasmus Sparre, Solution Manager, ETI
Steve Patton, Telesoft Technologies
Jerome Tollet, CTO, Qosmos
Klaus Mochalski, VP Market Development, ipoque
Yoram Ehrlich, NICE
Cristian D’Incertopadre, International Operations, IPS
James Mullins, VP, SS8
René Nitzinger, Utimaco LIMS
Jeff Zindel, Vice President of Marketing, Glimmerglass Networks
Bert Hubert, Fox-IT
Alessandro Mordacci, Senior Advisor, Ericsson
Manohar Katoch, Director, ClearTrail Technologies

13:30-14:00 Session A Understanding passive monitoring techniques for Mass Intercept and Mass Location Tracking
Steve Patton, Telesoft Technologies

13:30-14:00 Session B The New Generation of Monitoring Center addresses today's challenges in LI
Solution Architect, trovicor

14:00-14:30 Session A Challenges of WebmailInterception and Analysis
James Mullins, VP, Europe Sales, SS8

14:00-14:30 Session B Managing the Flood: Intelligent Optical Signal Access and Monitoring
Glimmerglass Networks presenter to be announced

14:30-15:00 Session Not able to Monitor HTPPS and other secured IP communications? Do Active Interception A
Anand Bhargava, Sr. Director of Technology, ClearTrail Technologies
<table>
<thead>
<tr>
<th>Time</th>
<th>Session B</th>
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<tbody>
<tr>
<td>14:30-15:00</td>
<td><strong>Access Switching - Identifying the Needle in the 10/40/100G Haystack</strong></td>
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<td><em>Sharon Besser, VP of Technology, Net Optics</em></td>
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<tr>
<td>15:30-16:00</td>
<td><strong>Active or Passive Interception, or both, that's the question</strong></td>
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<td><em>Alessandro Mordacci, Senior Advisor, Ericsson</em></td>
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<td>15:30-16:00</td>
<td><strong>From Gigabits to Terabits: Why you want to work smarter and not harder</strong></td>
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<td><em>Chris MacFarlane, President, ETI Connect</em></td>
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<tr>
<td>16:00-16:30</td>
<td><strong>Lawful Interception in Broadband Wireless Networks (WiMAX, LTE)</strong></td>
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<td><em>René Nitzinger, Utimaco LIMS</em></td>
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<td>16:00-16:30</td>
<td><strong>New Advanced Services for Supporting LEA in Lawful Interception Activities</strong></td>
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<td><em>Paolo Mario Finzi, Sales VP, RCS</em></td>
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<td>16:45-17:15</td>
<td><strong>Threats from Social Networks: Challenges and Solutions for Communication Monitoring and Intelligence Analysis</strong></td>
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<td><em>Ugo Santillo, IPS-RESI Group</em></td>
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**Thursday, 16 June 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session A</th>
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<tbody>
<tr>
<td>8:30-9:00</td>
<td><strong>&quot;Proxy Wars&quot;</strong></td>
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<td><em>Hendrik Schulze, CTO, ipoque</em></td>
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<tr>
<td>9:00-9:30</td>
<td><strong>Innovative Investigation Solutions in a Complex IP World</strong></td>
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<td><em>Nir Yanovsky, NICE</em></td>
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<td>10:30-11:00</td>
<td><strong>Automatic Discovery and Interception of International Leased Line Services</strong></td>
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<td><em>Jess Price, VP Sales and Marketing, NetQuest Corporation</em></td>
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<tr>
<td>11:00-11:30</td>
<td><strong>Why Terabits is not a Challenge</strong></td>
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<td><em>Chris MacFarlane, President, ETI Connect</em></td>
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<tr>
<td>11:40-12:05</td>
<td><strong>Converging Networks, Exploding Bandwidth, Complex Communications and Simplified MASS MONITORING</strong></td>
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<td></td>
<td><em>Manohar Katoch, Sr. Director, ClearTrail Technologies</em></td>
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</tbody>
</table>
12:05-12:30  Pradigm Shifts in Optical Signal Access and Monitoring for CSPs and LEAs  
*Glimmerglass Networks, presenter to be announced*

13:00-13:30  Broadband and VoIP Transforms LI  
*Alessandro Mordacci, Senior Advisor, Ericsson*

13:30-14:00 IPv6 Migration Strategies must include LI-forgetting this can be very costly  
*Mark Uldahl, Solution Expert, ETI Connect*

14:15-14:45, Session A  Intelligence Solutions for LEAs  
*Head of Sales ACE, trovicor*

14:15-14:45, Session B  "LI LTE Ready"  
*Cristian D’Incertopadre, International Operations, IPS*

14:45-15:15  Transforming TDM networks into IMS based networks  
*Leopold Murhammer, Product Manager, Siemens AG Austria*

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**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  Voice Biometrics Use Cases: Law Enforcement, Intelligence, Theater Operations  
*Angelo Ferraris, Loquendo*
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
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  Investigation for Communication Service Providers
Andrea Fabrizi, General Manger, HP Investigation Solution

16:45-17:45  Data Retention and Hand Off Future Challenges Guru Panel
Christian D’Cunha, D G Home Affairs
Peter Van der Arend, Chairman, ETSI/TC LI
Dirk Schrader, Sales Director, Utimaco LIMS
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

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**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 LA 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
   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
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*

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

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

9:45-10:45  **ETSI/TC LI Standard Update**
*Peter Van der Arend, Chairman, ETSI/TC LI*

10:45-11:00  **eWarrant/Hi-1 Standard Update**
*Tony Rutkowski, VP, Yaana Technology*