

TeleStrategies®

ISS World[®] Europe

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

4 - 6 JUNE 2013



PRAGUE, CZ



Past 2012 Event:

ISS World Europe is the world's largest gathering of European Law Enforcement, Intelligence and Homeland Security Analysts as well as Telecom Operators responsible for lawful interception, Hi-Tech Electronic Investigations and Network Intelligence Gathering.

ISS World Programs present the methodologies and tools for Law Enforcement, Public Safety and Government Intelligence Communities in the fight against drug trafficking, cyber money laundering, human trafficking, terrorism and other criminal activities conducted over today's telecommunications network and the Internet.

For more information about the 2012 program, click on the track name below -- or see the agenda at a glance for a summary of the sessions.

[Track 1: ISS for Lawful Interception and Criminal Investigations](#)

[Track 2: ISS for Social Network Monitoring and Investigations](#)

[Track 3: ISS for Mobile Location, Surveillance and Intercept](#)

[Track 4: DPI for Lawful Interception and Cyber Security](#)

[Track 5: ISS for Intelligence Gathering and Analysis](#)

[Track 6: Encrypted Traffic Monitoring and IT Intrusion Product Training](#)

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

[Pre-Conference Training Seminars \(Tuesday, 5 June 2012\)](#)

ISS World Europe- Conference Agenda at a Glance

5-7 June 2012

Pre-Conference Training Seminars

Tuesday, 5 June 2012

- PRE-CONFERENCE SESSIONS DESCRIPTION AT THE END OF AGENDA POSTING
- CERTIFICATE OF ISS TECHNOLOGY TRAINING AVAILABLE UPON REQUEST

Seminar #1

8:30-16:30

Online Social Media and Internet Investigations

*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***

08:30-09:30 **What Investigators & Analysts Need to Know about Online Social Media.**

09:45-10:45 **OSINT and Criminal Investigations**

11:00-12:00 **Successful Use of Online Social Media in Criminal Investigations**

13:00-14:00 **Counterintelligence & Liabilities Involving Online Social Media**

14:15-15:15 **Facebook: Tools, Tricks, & Techniques Investigators Need to Know**

15:30-16:30 **What Investigators Need to Know about Hiding on the Internet**

Seminar #2

8:30-16:30

Introduction to Audio, Video and GPS Surveillance: Equipment, Tactics and Management

*Presented by James Deater, President, **T3TECHSYSTEMS**, Joseph Messinese Jr., Training Manager, **T3TECHSYSTEMS**. James Deater and Joseph Messinese Jr. are also officers with the **Maryland State Police, USA**.*

08:30-09:30 **Camera Systems**

09:45-10:45 **GPS Tracking**

11:00-12:00 **Wireless Technology Considerations**

13:00-14:00 **Wiretap Technologies, Audio Collection**

14:15-15:15 **Body Wires and Audio Bugging Devices**

15:30-16:30 **Management of Intelligence and Other Surveillance Options**

*(The **T3TECHSYSTEMS** Seminar is for law enforcement and other government attendees only)*

Seminar #3

9:45-12:00

Smartphone Application Challenges Encountered and Opportunities Presented to Law Enforcement

*Presented by: Michael Williamson, Detective Sergeant, Special Operations Division, **Scottish Police College, UK***

Seminar #4

8:30-16:30

Understanding ISS Technologies and Products Deployed in Telecommunications Networks for Law Enforcement and Intelligence Analysis

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

08:30-10:45 **Understanding Wireline Telecom Infrastructure, Interception and Related ISS Products**

11:00-14:00 **Understanding Mobile Wireless Infrastructure, Interception and Related ISS Products**

14:15-16:30 **Understanding the Internet, Interception and Related ISS Products**

Seminar #5

8:30-16:30

Advanced IP Intercept Training

Presented by: Hendrik Schulze, President & CTO, ipoque and Jens Geier, Product Manager, ipoque

08:30-10:45 **Understanding TCP/IP for Packet Sniffing and Traffic Analysis**

11:00-14:00 **Deep Packet Inspection (DPI) Basics for LEA's, Intelligence Analysts and Telecom Operators**

14:15-16:30 **Basics of IP Application Decoding**

Seminar #6

13:00-16:30

ETSI/TC LI Standardisation on Lawful Interception and Data Retention Handling

13:00-13:40

ETSI/TC LI Overview

Peter van der Arend, ETSI/TC LI Committee Chairman, ETSI

13:40-14:00

E-Warrant Interface

Tony Rutkowski, Yaana Technologies

14:15-14:45 Session A

Details of Lawful Interception in IP Networks and Services Included the Delivery Interface via IP

Mark Lastdrager, Pine Digital Security

14:15-15:15 Session B

Data Retention in Austria

Herbert Paulis, Siemens representative in ETSI TC LI

14:45-15:15 Session A

Dynamic Triggering

Alex Leadbeater, BT Group

15:30-16:00

Details on the eWarrant Interface for Lawful Interception and Data Retention

Tony Rutkowski, Yaana Technologies

16:00-16:30

ETSI TC LI standards in reality

Rudolf Wunschuh, Utimaco

16:30-17:00

ETSI/TL LI Guru Roundtable

Q&A Session with ETSI Panelists

Peter van der Arend, ETSI/TC LI Committee Chairman, ETSI

Mark Lastdrager, Pine Digital Security

Alex Leadbeater, BT Group

Tony Rutkowski, Yaana Technologies

Rudolf Wunschuh, Utimaco

PRE-CONFERENCE SESSIONS DESCRIPTION AT THE END OF AGENDA POSTING

Wednesday, 6 June 2012

Welcoming Remarks

8:15-8:30 *Tatiana Lucas, ISS World Program Director, **TeleStrategies***

8:30-9:00 **Top Ten Internet Challenges Facing Law Enforcement and the Intelligence Community and Who at ISS World
Europe has Solutions**

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

ISS World Europe Exhibit Hours:

Wednesday, 6 June 2012: 10:00 - 17:00

Thursday, 7 June 2012: 9:30 - 12:30

Track 1: ISS for Lawful Interception and Criminal Investigations

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

Wednesday, 6 June 2012

- 13:30-14:00 **Performance Management (PM) and Lawful Interception**
*Bjorn de Jong, International Business Development Representative, **Net Optics***
- 14:00-14:30 **Scaling Surveillance to 40 Gbps and Beyond**
*Daniel Joseph Barry, VP Marketing, **Napatech***
- 15:00-15:30 **FoCC: Filtering of Communication Content**
*Rudolf Wunschuh, Partner Sales Manager, **Utimaco LIMS***
- 15:30-16:00 **Massive Interception - Telecoms and IP: Parameterisation of Very High Capacity Communication Links with a View to Interception**
*Product Manager, **VASTech***
- 16:15-16:45 **How Network Reporting Can Help Avoid Pitfalls in LI Installations**
*Jens Geier, Product Management, **ipoque***
- 16:45-17:15 **New Generation of Cost Effective IP LI & DR solution**
*Pet Kastovsky, **INVEA-TECH***

Thursday, 7 June 2012

- 8:30-9:00 **New Generation of Speaker Identification Technology**
*Radim Kudla, **Phonexia***
- 9:00-9:30 **Trojan Horses or Man in the Middle Approach As an answer to more and more encryption. Technical and "political" Comparison.**
*Paul Hoffman, **Datakom***
- 10:30-11:00 Session A **SSL & the End of LI As We Know It: Making the Most of What's Left**
*Bert Hubert, Cyber Security Architect, **NetScout Systems***
- 10:30-11:00 Session B **LTE - a challenge for LI**
*Leopold Murhammer, Product Manager, **Siemens***

- 11:00-11:30 Session **Latest Lawful Interception Technologies for Service Provider Compliance**
A *Vladimir Trostyanetski, Product Manager, Communications & Cyber Intelligence Solutions, Verint Systems*
- 11:00-11:30 Session **A Modular Approach to Strategic IP Interceptions**
B *Frederico Ciceri, RCS S.p.A*
- 12:00-12:30 **LI: a Countrywide Solution**
Giuseppe Leto, Sales Manager, IPS
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Track 2: ISS for Social Network Monitoring and Investigations

This track is for Law Enforcement, Intelligence and Public Safety Authorities who are responsible for cyber investigations, monitoring, analysis and creating actionable intelligence from today's social networks including Facebook and Twitter. Note some of these sessions denoted by "LEA and Intel Only" are only open to Law Enforcement, Public Safety and the Government Intelligence Community.

Wednesday, 6 June 2012

- 9:30-10:00 Session A **Social Networks: the Https Challenges**
Ugo Santillo, Sales Manager, IPS
- 9:00-10:00 Session B **Forensics of Web 2.0 Applications and Social Networks**
ATIS systems Presenter to be Announced
(LEA and Government Attendees Only)
- 11:00-11:30 Session A **Making Sense of the Web**
Lilach Shenker, Product Manager, NICE

- 11:30-12:00 Session A **Intelligence Monitoring & Analysis of Social Networks - An Introduction**
Product Manager, trovicor
- 11:00-12:00 Session B **Social Media (Web 2.0) and Possible Ways to Extract Intelligence Out of That Cloud**
Dirk Schrader, VP Sales Europe, SS8
(LEA and Government Attendees Only)
- 13:30-14:30 **Social Networks Monitoring and Analysis**
NICE Presenter to be Announced
(LEA and Government Attendees Only)
- 15:00-16:00 **A Web Master Key™ for Social Networks Monitoring, Interception and Analysis**
Ugo Santillo, Sales Manager, IPS
(LEA and Government Attendees Only)
- 16:15-17:15 **Social Network Monitoring and Analysis - how to gain new insights**
Product Manager, trovicor
(LEA and Government Attendees Only)
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Track 3: ISS for Mobile Location, Surveillance and Intercept

This track is for Law Enforcement, Interior Security and the Intelligence Community Authorities who must work with cellular and mobile satellite operators regarding mobile location, surveillance and intercept as well as analysis of mass geo-location data.

Wednesday, 6 June 2012

- 9:00-9:30 **Active, Passive and Hybrid GSM & 3G Monitoring Systems. Practical Solutions and Overcoming**
NeoSoft Speaker to be Announced

- 9:30-10:00 **Combining Mobile Location Monitoring and Behavior Analysis to Improve LEA Decision Support**
Mikael Nyström, CEO, Mobilaris AB
- 13:30-14:00 **Tactical GSM & 3G off-the-air Interception and Location Tracking**
Septier Presenter to be Announced
- 14:00-14:30 **Umbrella for Services & Networks to Ensure Comprehensive Analysis**
Dirk Börgerding, Pre-Sales Manager, Utimaco LIMS
- 15:00-15:30 **Monitoring Pedophiles' Communications Activity**
Guy Molho, Marketing & BD Manager, NICE
- 15:30-16:00 **State-of-the-art Electronic Monitoring Technologies for the Law Enforcement Agencies: RF Presence Monitoring, Remote Alcohol Monitoring, GPS Tracking and Domestic Violence solutions**
3M Electronic Monitoring, Presenter to be Announced

Thursday, 7 June 2012

- 9:00-9:30 **Handheld Tools for Cell Phone Direction Finding and Location**
Scott N. Schober, President & CEO, Berkeley Varitronics Systems
- 10:30-11:00 **Practical solutions for cellular Tracking and localization. Vehicle based solutions.**
NeoSoft Speaker to be Announced
- 11:00-11:30 **Revolutionizing Mobile Forensics**
Cellebrite Speaker to be Announced

Track 4: DPI 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, 6 June 2012

- 9:00-9:30 **Building a Flexible DPI Platform**
*Paul Stevens, Telecom Sector Marketing Director, **Advantech***
- 11:00-11:30 **An Introduction into Mobile Networks (3G/4G) and How to Validate DPI Systems Within These Environments**
*Dennis Cox, CTO, **BreakingPoint***
- 11:30-12:00 **Leveraging DPI to Identify Advanced Cyber Threats**
*Haim Melamed, Director of Marketing, Communications & Cyber Intelligence Solutions, **Verint Systems***
- 13:30-14:00 **IPv6, Identities & DPI**
*Hendrik Schulze, President & CTO, **ipoque***
- 14:00-14:30 **Passive or Active Monitoring**
*Cristian D'Incertopadre, Sales Manager, **IPS***
- 15:00-15:30 **Enhancing IP DR & LI solution with DPI**
*Petr Springl, **INVEA-TECH***
- 15:30-16:00 **Understanding the Technical Limitations of DPI Engines**
*Dennis Cox, CTO, **BreakingPoint***

Thursday, 7 June 2012

- 8:30-9:00 **Leveraging COMINT in the World of Cyber Intelligence Security**
***NICE** Presenter to be Announced*
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Track 5: ISS for Intelligence Gathering and Analysis

This track is for Intelligence Analysts and Law Enforcement agents who have to “connect the dots” between people, places and other entities by searching through massive amounts of data from various sources using visual analytics, semantic technologies, data mining, OSINT and other intelligence gathering tools and techniques.

Wednesday, 6 June 2012

- 9:00-9:30 **Gathering Intelligence in Preparation for High Profile Events: Super Bowl 2012 Case Study**
Charles Cohen, Cohen Training and Consulting, LLC
- 9:30-10:00 Session A **Arabic media influence cycle: case study How the Egyptian media covered the Muslim Brotherhood before, during & after the revolution**
Mohamed Elawa, OSINT Senior Technical Director, AGT Advanced German Technology
- 9:30-10:00 Session B **Cyberwar ... A foretaste of a future that will be plagued by an escalating world of data breaches**
Solutions Sales Manager, trovicor
- 11:00-11:30 Session A **Multimedia Mass IP Interception - Capturing & Processing**
Innovation Manager, trovicor
- 11:00-11:30 Session B **"Track Pulse" a Multilingual Social Media Monitoring Solutions**
Karanvir Singh, Kommlabs
- 11:30-12:00 Session A **Codename: Da Vinci. Attack, Control and Gather Intelligence from Personal Devices**
David Vincenzetti, Partner, Hacking Team
- 11:30-12:00 Session B **VoiceGrid Nation - country-wide voice database management and voice identification system**
Speech Technology Center, Presenter to be Announced
- 13:30-14:00 **Mass Data Intelligence Systems for Lawful Interception**
Guy Alon, Marketing Director, ELTA Systems

- 14:00-14:30 **Doing it your way - a customer driven approach to investigation and intelligence solution design**
Aaron (Ronnie) Eilat, Director Intelligence and Investigation Product Line, Elbit Systems Land-C4I
- 15:00-15:30 **Lawful Interception in Virtual Environments**
Bjorn de Jong, International Business Development Representative, Net Optics
- 15:30-16:00 **Speech Intelligence Platform - How to Mine Data from Speech Records**
Petr Schwarz, Phonexia
- 16:15-16:45 **Better safe than sorry - an complete security approach to Intelligence and Investigation solutions**
Assi Barak, Senior Director System and Software Engineering, Elbit Systems Land-C4I

Thursday, 7 June 2012

- 8:30-9:00 **Encryption Anywhere and Ever. Now What? An Analysis of Possible Workarounds**
AREA Speaker to be Announced
- 9:00-9:30 **Public Security Solutions to Help Governments Deliver the Security that Citizens Require**
Brett Beranek, Solutions Marketing Manager, Nuance
- 10:30-11:00 **Massive Interception - IP: Truly Massive Passive Interception in Broadband Environments**
Product Specialist, VASTech
- 11:00-11:30 **How Nuance Voice Biometrics and Natural Speech Understanding Can Add Value to Intelligence Support Systems**
Angelo Ferraris, Nuance
- 12:00-12:30 Session A **The Polymorphic Spree - Polymorphism & stealth of Computer Surveillance Systems**
Rami Amar, Elbit Systems Land-C4I
- 12:00-12:30 Session B **Communication Surveillance in the Fight Against Child Exploitation - Re-balancing the Ethical Debate**
AREA Speaker to be Announced
- 12:30-13:00 **Network Critical Infrastructure Suite**
Pasquale De Rinaldis, Sales Manager, IPS

Track 6: Encrypted Traffic Monitoring and IT Intrusion Product Training

This track is only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees

Wednesday, 6 June 2012

- 9:00-10:00 **FinFisher - Actively Monitoring Networks, Computer and Mobile Phones**
MJM, Gamma Group
- 11:00-12:00 **VUPEN Sophisticated Exploits for IT intrusion and Offensive Security**
Chaouki Bekrar, CEO & Director of Vulnerability Research, VUPEN Security
- 13:30-14:30 **Governmental IT Intrusion: Applied Hacking Techniques used by Government Agencies**
MJM, Gamma Group
- 15:00-16:00 **Codename: Da Vinci: the new way to intercept Social Networks and the Cloud**
Marco Valleri, Head of R&D, Daniele Milan, Operations Manager, and Alberto Ornaghi, Senior Software Developer, Hacking Team

Thursday, 7 June 2012

- 9:00-9:30 **Active IT Intrusion, Deployment, Blocking and Shaping within Backbones - Powered by FinFisher**
TF, Gamma Group
- 10:30-11:30 **Codename: Da Vinci. An in-depth, live demonstration of infection vectors and attack techniques.**
Marco Valleri, Head of R&D, Daniele Milan, Operations Manager, and Alberto Ornaghi, Senior Software Developer, Hacking Team

12:00-13:00

Tactical IP Intercept for HTTPS Monitoring & Remote Intrusion
Jitendra Verma, Manager, Business Development, ClearTrail Technologies

Track 7: LEA, Intelligence and Defense Analyst Training and Product Demonstration Track

This training is only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

Wednesday, 6 June 2012

9:00-10:00

Forensics of Web 2.0 Applications and Social Networks

ATIS systems Presenter to be Announced

11:00-12:00, Session A

Social Media (Web 2.0) and Possible Ways to Extract Intelligence Out of That Cloud

Dirk Schrader, VP Sales Europe, SS8 and Alex Bacik, Sales Engineer, SS8

11:00-12:00, Session B

Replay NetAnalyst by NetScout

NetScout Systems Speaker to be Announced

11:00-12:00, Session C

Applying Artificial Intelligence in Mass Monitoring of IP data

Manohar Katoch, AVP-Business Development, ClearTrail Technologies

13:30-14:30, Session A

Social Networks Monitoring and Analysis

Fiorella Serra, Marcom Manager, NICE

13:30-14:30, Session B

Intelligence Analysis - Turning Mass IP Data into Intelligence

Product Manager, trovicor

- 13:30-14:30, Session C **Live Demo: Your Social Networks & Blogs Intelligence Suite!**
Marina Maurer, Marketing, Ytrail
Tony Andris, Projects, Ytrail
- 15:00-16:00, Session A **A Web Master Key™ for Social Networks Monitoring, Interception and Analysis**
Ugo Santillo, Sales Manager, IPS
- 15:00-16:00, Session B **Nationwide Monitoring Centers in the IP & Mobile Applications Era**
Jack Zeitune, Product Manager, Communications & Cyber Intelligence Solutions, Verint Systems
- 15:00-16:00, Session C **The Wide Side of COMINT - Strategic Interception of Microwave Links**
Amir Shlomo, System Specialist, ELTA
- 16:15-17:15, Session A **Social Network Monitoring and Analysis - how to gain new insights**
Product Manager, trovicor
- 16:15-17:15, Session B **IVS : the RCS Monitoring Center for IP Interceptions**
Mario Dolza, RCS S.p.A.
- 16:15-17:15, Session C **Flexible IP Communication Surveillance Solutions - Adapting to Your Investigative Needs and Objectives**
AREA Speakers to be Announced
- 16:15-16:45, Session D **High Accuracy - Cost Effective Location Intelligence Technologies**
Amir Erez, Product Manager, Communications & Cyber Intelligence Solutions, Verint Systems
- 16:45-17:15, Session D **Generating Intelligence from end-to-end Mass and Satellite Interception Solutions**
Jack Zeitune, Product Manager, Communications & Cyber Intelligence Solutions, Verint Systems

Thursday, 7 June 2012

- 8:30-9:30,
Session A **Open Source Web Intelligence Concepts and Methodologies**
Amit Bohensky, VP, Open Source Web Intelligence, Communications & Cyber Intelligence, Verint Systems
- 8:30-9:30,
Session B **Application & User Data Interception Demo**
Jens Geier, Product Manager, ipoque
- 8:30-9:30,
Session C **Unique 2G/3G IMSI catching solution for mobile operations (pedestrian, vehicle, aircraft) and fixed installations (prisons)**
Morten Hansen, EXFO NetHawk
- 10:30-11:30,
Session A **NiceTrack Target 360 - A new world COMINT System**
Nir Yanovsky, Product Manager, NICE
- 10:30-11:30,
Session B **How to Test the Performance and Accuracy of Broadband and Mobile 3G/LTE Lawful Interception Systems Monitoring Email, Webmail, Instant Messenger and Social Network Applications**
Gregory Fresnais, BreakingPoint Systems, International Director of Business Development, BreakingPoint
- 10:30-11:30,
Session C **Social Network Monitoring and Analysis - How to gain new insights**
Product Manager, trovicor
- 12:00-13:00
Session A **Intelligence Analysis – Turning Mass IP Data into Intelligence**
Product Manager, trovicor
- 12:00-13:00
Session B **IMSI/IMEI Catcher. InPoint SMS system - Mass Emergency Notification. Tactical experience, challenges and solutions.**
NeoSoft AG Speaker to be Announced
- 12:00-13:00
Session C **VoiceGrid RT - Real-time system for audio stream monitoring**
Speech Technology Center, Presenter to be Announced
- 13:15-14:15
Session A **Pinpoint your Targets - Accurate Mobile Location Tracking**
Lilach Shenker, Product Manager, NICE
- 13:15-15:15
Session B **Smartphone Application Challenges Encountered and Opportunities Presented to Law Enforcement**
Michael Williamson, Detective Sergeant, Special Operations Division, Scottish Police College, UK

Pre-Conference Training Seminars

Tuesday, 5 June 2012

Seminar #1

8:30-16:30

Online Social Media and Internet Investigations

*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

Facebook: Tools, Tricks, & Techniques Investigators Need to Know

While there are over 300 social networking sites on the Internet, Facebook is by far the most populous, with over 800 million profiles. It has roughly the same population as the US and UK combined, making it the third largest country by population. There are over 250 million images and 170 million status updates loaded on Facebook every day. This session will cover topics including Facebook security and account settings, Facebook data retention and interaction with law enforcement, and common fraud schemes involving Facebook.

15:30-16:30: Session 6 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 activities 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.

Seminar #2

8:30-16:30

Introduction to Audio, Video and GPS Surveillance: Equipment, Tactics and Management

*Presented by James Deater, President, **T3TECHSYSTEMS**, Joseph Messinese Jr., Training Manager, **T3TECHSYSTEMS**. James Deater and Joseph Messinese Jr. are also officers with the **Maryland State Police, USA**.*

This one day course will be an introduction to Audio, Video and GPS Surveillance: Equipment, Tactics and Management. Audio Interception investigations and Electronic Surveillance is comprised of highly advanced investigative techniques/tools used by law enforcement and intelligence agencies throughout the United States and abroad. These extremely valuable tools are often not used due to misconceptions and lack of understanding. This one-day course will demonstrate the basics for law enforcement/intelligence agencies to overcome the fears of utilizing Electronic Surveillance Equipment such as audio interception equipment, pole cameras, ground base camera systems, covert video, thermal cameras, GPS tracking devices, new body wire technology, audio bugging devices and much more to further investigations and intelligence gathering like never before.

08:30-09:30

Camera Systems

Introduction to Miniature Video Surveillance, Covert Video Operational Consideration, Working with IP Video Systems and Transmission Across Internet, Covert Enclosures, Simple Image Only vs. Full Motion Video Systems, Thermal Imaging and Infrared Cameras (FLIR), Pole Mount Cameras and Power Considerations and Motion Sensing Cameras

09:45-10:45

GPS Tracking

Introduction to GPS Tracking Technologies, GPS Tracking and Device Placement, Integration with Cellular Operator Infrastructure and Operations, GPS Unit Cost Considerations, GPS Geofencing and Geolocation and Monitoring Consideration

11:00-12:00

Wireless Technology Considerations

Introduction to Wireless Technologies and Surveillance Considerations, Intelligence Gathering Consideration, Covert Operation and the use of Two Way Radios, Cellular Listening Devices/Audio Bugging Devices: Size and Control and Off Air Monitoring Systems

13:00-14:00

Wiretap Technologies, Audio Collection

Introduction to Wiretap Technologies, Audio Collection devices, PEN Registers, Case Management, Recording Media considerations and Audio/Video evidence procedures and considerations

14:15-15:15

Body Wires and Audio Bugging Devices

Introduction to Audio/Video Transmitter Considerations – Including New Body Worn Cameras, Covert Operation Consideration, Short vs. Long Range Consideration – Choosing the Correct Technology, Cell Phone Body Wire Considerations – New Technology and Special Accessories for Covert Operations

15:30-16:30

Management of Intelligence and Other Surveillance Options

Introduction to Portable Surveillance Systems – Quick Deployment Units, Drug and Explosive Detection, Intelligence Gathering and Crowd Control, Real Time Aerial Surveillance Operations, Building and Parking Lot Monitoring and Secure In-Vehicle Storage Systems and Sensor Systems for Remote Monitoring

(The T3TECHSYSTEMS Seminar is for law enforcement and other government attendees only)

Seminar #3

9:45-12:00

Smartphone Application Challenges Encountered and Opportunities Presented to Law Enforcement

*Presented by: Michael Williamson, Detective Sergeant, Special Operations Division, **Scottish Police College, UK***

A users overview of smartphone applications, what they can do, implications, challenges and opportunities for law enforcement in obtaining results and co-ordinating our response to the overwhelming new apps appearing daily.

Seminar #4

8:30-16:30

Understanding ISS Technologies and Products Deployed in Telecommunications Networks for Law Enforcement and Intelligence Analysis

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

This one day pre-conference seminar covers the spectrum of ISS Technologies and Products deployed in today's fixed wire, mobile wireless and Internet Service Provider networks. This all day seminar is ideal for those law enforcement, public safety and intelligence analysts who need an understanding of the ISS technologies to be discussed in the conference sessions and the ISS products displayed at the exhibit hall as well as an understanding of the buzz words and jargon used by telecom operator engineers.

08:30-10:45

Understanding Wireline Telecom Infrastructure, Interception and Related ISS Products

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 for lawful intercept, basic LI elements (access, delivery and collection function), call information, call content data collection, and where are ISS products deployed for monitoring and intercept.

11:00-14:00

Understanding Mobile Wireless Infrastructure, Interception and Related ISS Products

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, IM, data services, fixedmobile convergence and IMS and where are ISS products deployed for monitoring and intercept.

14:15-16:30

Understanding the Internet, Interception and Related ISS Products

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, Facebook, Twitter, 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 and where are ISS products deployed for monitoring and intercept.

Seminar #5

8:30-16:30

Advanced IP Intercept Training

Presented by: Hendrik Schulze, President & CTO, ipoque and Jens Geier, Product Manager, ipoque

08:30-10:45

Understanding TCP/IP for Packet Sniffing and Traffic Analysis

A brief introduction into network technology and the basics of TCP/IP needed for interception and the impact on proper network analysis. Based on this, the workshop reflects the technical options for LEA's to investigate in networks.

11:00-14:00

Deep Packet Inspection (DPI) Basics for LEA's, Intelligence Analysts and Telecom Operators

An overview on deep packet inspection technology (DPI) and its basic operations down to the application level. Skype is used as example to show the implications of complex network behavior on DPI.

14:15-16:30

Basics of IP Application Decoding

From Packets to Structured Data

The workshop is a high-level introduction on building decoder software starting from requirements on an example of software architecture. After an overview of all parts of the introduction the building blocks are elaborated.

Seminar #6

13:00-16:30

ETSI/TC LI Standardisation on Lawful Interception and Data Retention Handling

Presented by: Peter van der Arend, ETSI/TC LI Committee Chairman, ETSI

13:00-13:40

ETSI/TC LI Overview

Peter van der Arend, ETSI/TC LI Committee Chairman, ETSI

13:40-14:00

E-Warrant Interface

Tony Rutkowski, Yaana Technologies

14:15-14:45 Session A

Details of Lawful Interception in IP Networks and Services Included the Delivery Interface via IP

Mark Lastdrager, Pine Digital Security

14:15-15:15 Session B

Data Retention in Austria

Gerhard Seiser, Siemens

14:45-15:15 Session A

Dynamic Triggering

Alex Leadbeater, BT Group

15:30-16:00

Details on the eWarrant Interface for Lawful Interception and Data Retention

Tony Rutkowski, Yaana Technologies

16:00-16:30

ETSI TC LI standards in reality

Rudolf Wunschuh, Utimaco

16:30-17:00

ETSI/TL LI Guru Roundtable

Q&A Session with ETSI Panelists

Peter van der Arend, ETSI/TC LI Committee Chairman, ETSI

*Mark Lastdrager, **Pine Digital Security***

*Alex Leadbeater, **BT Group***

*Tony Rutkowski, **Yaana Technologies***

*Rudolf Wunschuh, **Utimaco***