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# ISS World Americas

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

SEPTEMBER 25-27, 2013 • WASHINGTON DC



Where Law Enforcement,  
Public Safety, Telecoms and  
the Intelligence Community turn for  
Technical Training and Product Selection

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70 LEA/Interior Security/Intel Training Sessions and Courses to Choose From

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ISS World Americas is the world's largest gathering of North and South American 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 networks, the Internet and Social Networks.

#### Track 1

**ISS for Lawful Interception and Criminal Investigations**

#### Track 2

**ISS for Big Data Analytics and Social Network Monitoring**

#### Track 3

**ISS for Mobile Location, Surveillance and Signal Intercept**

#### Track 4

**Encrypted Traffic Monitoring and IT Intrusion Product Training**

#### Track 5

**Cyberthreat Information Sharing – Business Opportunities and Cyber Security Initiative Developments**

#### Track 6

**Facial Recognition Technology for Criminal Investigations and Intelligence Gathering**

#### Track 7

**ISS Product Training and Demonstration**

### Pre-Conference Training Seminars

**Wednesday, 25 September 2013**

#### Seminar #1

**8:30-4:30**

#### 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.

**1:00-2:00: 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.

**2:15-3:15: 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.

**3:30-4:30: 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 one's identity and location on the Internet can be both a challenge and an opportunity. Various methods of hiding one's 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

**8:30-4:30**

#### Understanding ISS Technologies and Products Deployed in Telecommunications Networks and Monitoring Centers for Law Enforcement and Intelligence Analysts

*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 and LEA Monitoring and Intelligence Gathering Centers. 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 and their vendors.

**08:30-10:45: Session 1 of 3**

#### 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, SONET/SDH,

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Broadband Access (DSL, ADSL, Cable Modems, etc.), billing systems and call detail records, standards for lawful intercept, basic LI elements (access, delivery and collection function), LEA Monitoring Center Functions (call information and call content data collection) and where are ISS products deployed for monitoring and intercept.

**11:00-14:00: Session 2 of 3**

### **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, fixed mobile convergence, Smartphone challenges for LEA, intrusion techniques, gathering Geolocation data, location technologies (A-GPS and RF finger printing) and where are ISS products deployed for monitoring and intercept.

**14:15-16:30: Session 3 of 3**

### **Understanding the Internet, Interception and Related ISS Products**

What Investigators Have To Know about IP call Identifying Information, Radius, DHCP, DNS, etc., 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, Big Data Analytics, defeating encryption, emerging IPv6 Challenges and what can be done to address Internet intercept deploying ISS infrastructure and where are ISS products deployed for monitoring and intercept.

## **Seminar #3**

**8:30-4:30**

### **Introduction to Cell Phone & Mobile Device Investigations**

*Presented by Charles J. Faulk, Instructor, Geocell, LLC*

*Charles also heads up **CJ Faulk and Associates** and is Retired Senior Special Agent, Federal Bureau of ATF*

Geocell, LLC will present a one day, eight hour, thorough introduction to cell phone and mobile device investigations for law enforcement and appropriate government agency personnel. The course will provide attendees with a detailed overview of what is possible with cellular data, what is available, and how the data is typically used by government officials. The seminar will also discuss legal and practical challenges of making use of the data, as well as, provide attendees with an understanding of the primary surveillance options that are available. In addition to discussing data that is

available historically from communications providers, the seminar will also provide an overview of the increasingly-valuable digital forensic value of mobile devices. Final considerations will also be presented that discuss the courtroom presentation of data and the future of the field. More information on Geocell training and expert-witnessing services may be found at [www.geocell.us](http://www.geocell.us).

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

### **What is Communications Data & What is Communications Intelligence?**

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

### **What is Communications Data & What is Communications Intelligence?**

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

### **How is the Data Used in Investigations & Prosecutions?**

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

### **Legal Issues Regarding Communications Data?**

**1:00-2:00: Session 4 of 6**

### **Introduction to Physical Forensics for Mobile Devices**

**2:15-3:15: Session 5 of 6**

### **Interpretation vs. Analysis of Data: Making the Data "Intelligent"**

**3:30-4:30: Session 6 of 6**

### **Introduction to Surveillance Capabilities, Courtroom Presentations, & the Future.**

## **Seminar #4**

**1:30-2:30 p.m.**

### **The Dark Side of the Internet - The Hidden TOR and I2P and How they Function**

*Presented by: Ross Bowerman, Detective Sergeant, **Scottish Police College, UK***

## **Seminar #5**

**2:45-4:30 p.m.**

### **Smartphone Application Challenges Encountered and Opportunities Presented to Law Enforcement**

*Presented by: Michael Williamson, Detective Inspector, Force Intelligence Bureau, **Crime and Safer Communities, UK***

A user overview of Smartphone applications, what they can do, implications, challenges and opportunities for law enforcement in obtaining results and coordinating our response

to the overwhelming new apps appearing daily.

## **Seminar #6**

**1:00-4:30 p.m.**

### **Facial Recognition Technology for Criminal Investigations and Intelligence Gathering**

This seminar is for law enforcement and intelligence analysts who have to understand facial recognition technology applications which can be offered today and which ones are a work in progress.

**1:00-2:00**

### **Facial Recognition Readiness: An Overview of What Criminal Investigators and Intelligence Analysts Need to Know**

*Thirimachoa Bourlai, Assistant Professor, Lane Department of Computer Science and Electrical Engineering, **West Virginia University***

**2:15-3:15**

### **Panel of Government Executive Currently or Planning to Deploy Facial Recognition Technology Programs**

*Panel to be Announced*

**3:30-4:30**

### **"Best Practices" for Deploying Facial Recognition Technology into Existing Law Enforcement and Intelligence Gathering Operations**

*Panel of Facial Recognition Subject Matter Experts*

## **Thursday, 26 September, 2013**

**8:15-8:30**

### **Welcoming Remarks**

*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 Americas has Solutions**

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

## **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.

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## Thursday, 26 September 2013

9:00-10:00

### Advancing the role of the Monitoring Center

*SS8 presenter to be announced  
(This Session is only open to LEA and Government Attendees)*

11:30-12:00

Today's interception in an encrypted, social and clouded world

*David Vincenzetti – CEO, Hacking Team*

1:30-2:00

### 'Going dark and beyond' - An view on challenges for LI from a non-US perspective

*Rudolf Winschuh, Partner Sales Manager, Utimaco LIMS*

2:00-2:30

### Communication Surveillance in the Fight Against Child Exploitation - Rebalancing the Ethical Debate

*AREA presenter to be announced*

3:15-3:45

### Lawful Intercept Implications on Cloud Services

*Glen Myers, CTO, Subsentio*

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## Friday, 27 September 2012

8:30-9:30

### Update on CALEA Standards

*Dr. Glen Myers, CTO, Subsentio, Chair, ATIS PTSC LAES Subcommittee*

10:30-11:30

### Where LI Laws and FCC Regulations May be Headed in 2014 and Beyond

*Panel discussion*

*Moderator: Glen Myers, CTO, Subsentio*

*Panelists: C.M. Toke Vandervoort, Vice*

*President and Chief Privacy Officer, XO*

*Communications, Marcus Thomas,*

*former FBI Assistant Director and head*

*of Operational Technology Division, Joel*

*Margolis, Senior Director of Government*

*Affairs, Subsentio*

## Track 2

### ISS for IP Intercept, Big Data Analytics and Social Network Monitoring

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 unstructured data from various sources using visual analytics, semantic technologies, data mining, OSINT and other intelligence gathering tools and techniques

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## Thursday, 26 September 2013

9:00-9:30

### Exploiting the Twitter Firehose for Law Enforcement

*Steve Pederson, CEO, BrightPlanet*

11:30-12:00

### Data Discovery – Facilitating investigations and analysis across myriad data sources

*SS8 presenter to be announced  
(This Session is only open to LEA and Government Attendees)*

1:30-2:00

### Open source and social media data as a source of intelligence

*Jez Nelmes – BAE Detica GCS Social Media Product Manager*

2:00-2:30

### Commercial Aggregators and the Four V's of Big Data – When Volume, Variety, Velocity and Veracity Matter

*Adam Dietz, Senior Government Consultant, LexisNexis*

3:15-3:45 **SESSION A**

### Social Media – The unstructured data challenge

*DDN presenter to be announced*

3:45-4:15 **SESSION A**

### Identity association and resolution in Social Networks

*Guy Alon, Marketing Director, EW & Communication Division, ELTA SIGINT*

3:15-5:30 **SESSION B**

### Cross Jurisdictional Data Sharing for Prisons & Correctional Facility Operations: Real World Examples

*Christopher Westphal, Chief Executive Officer, Visual Analytics*

4:30-5:00 **SESSION A**

### Deep Web Intel Silos, Creating New Intelligence for Law Enforcement

*Steve Pederson, CEO, BrightPlanet*

5:00-5:30

### War on Social Media

*AGT presenter to be announced*

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## Friday, 27 September 2013

8:30-9:30

### Best Practices for Scanning the Twitter Firehose

*Detective Thomas Calvert, Intelligence Sector, Nassau County Police Department*

*Steve Pederson, CEO, BrightPlanet*

10:30-11:00

### Learn to gain key insights from Social Analytics and Big Data.

*Topsy presenter to be announced*

11:00-11:30

### Active, Passive and Hybrid GSM, 3G, LTE & CDMA Monitoring systems. Randomization, A5.3 etc. Practical solutions.

*NeoSoft presenter to be announced*

12:15-1:15 p.m. Session A

### The Dark Side of the Internet - The Hidden TOR and I2P and How they Function

*Presented by: Ross Bowerman, Detective Sergeant, Scottish Police College, UK*

12:15-1:15 p.m. Session B

### Innovated Gang Intelligence Gathering

*Lyle Dundy, Detroit Crime Commission  
Steve Pederson, CEO, BrightPlanet*

## Track 3

### ISS for Mobile Location, Surveillance and Signal 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.

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## Thursday, 26 September 2013

9:00-10:00

### IMSI/IMEI Catcher with Public Number Detection. CDMA Catcher

*NeoSoft AG presenter to be announced  
(This Session is only open to LEA and Government Attendees)*

11:30-12:00

### Tactical GSM & 3G interception

*Elan Sharon, Septier Communication*

1:30-2:30 p.m.

### Global Geolocation and Tracking : how to achieve GPS precision without GPS? A new product demonstration

*Jean-Philippe Lelievre, Founder and President, Hear & Know*

*(This Session is only open to LEA and Government Attendees)*

3:15-3:45 p.m.

### InPoint SMS System. Mass Emergency Notification. Target Localization. Vehicle based and Portable solutions

*NeoSoft AG presenter to be announced*

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## Friday, 27 September 2013

10:30-11:00

### Accurate Cellular Location tracking solutions

*Elan Sharon, Septier Communication*

11:00-11:30

### Active, Passive and Hybrid GSM, 3G LTE & CDMA Monitoring systems. Randomization, A5.3 etc. Practical solutions

*NeoSoft AG presenter to be announced  
(This Session is only open to LEA and Government Attendees)*

12:15-1:15

### Smartphone Application Challenges Encountered and Opportunities Presented to Law Enforcement

*Presented by: Michael Williamson, Detective Inspector, Force Intelligence Bureau, Crime and Safer Communities, UK*

## Track 4

### Encrypted Traffic Monitoring and IT Intrusion Product Training

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

#### Thursday, 26 September 2013

9:00-10:00

Using Open-Source tools to conduct governmental investigations against serious crime  
Gamma International, presenter to be announced

11:30-12:30 **SESSION A**

#### VUPEN Sophisticated Exploits for IT intrusion and Offensive Security

Chaouki Bekrar, CEO & Director of Vulnerability Research, **VUPEN**

11:30-12:30 **SESSION B**

#### Encryption of mass-communication changed the game's rules, learn how to stay ahead of threats with Remote Stealth Surveillance Suite

**AGT** presenter to be announced

1:30-2:30 p.m. **SESSION A**

#### Identifying criminal organizations on social networks by intruding communications devices

Marco Valleri - CTO  
Alberto Ornaghi - Software Architect  
Alberto Pelliccione - Senior Software Developer, **Hacking Team**

1:30-2:30 p.m. **SESSION B**

#### Encryption Anywhere and Everywhere. Now What? An Analysis of Possible Workarounds

**AREA** presenter to be announced

3:15-4:15

#### FinFisher - Next Generation governmental surveillance. Focus: Mobile phone monitoring

**Gamma International**, presenter to be announced

#### Friday, 27 September 2013

10:30-11:30

#### Intruding communication devices: live demonstration of latest attack techniques

Marco Valleri - CTO  
Alberto Ornaghi - Software Architect  
Alberto Pelliccione - Senior Software Developer, **Hacking Team**

## Track 5

### Cyberthreat Information Sharing – Business Opportunities and Cyber Security Initiative Developments

This track is for telecom operators and ISS Vendors developing products and services to

assist private enterprises and government agencies to share cyber threat and attack data in real-time.

#### Thursday, 26 September 2013

3:15-4:14 p.m.

#### Cyberthreat Information Services – Telecom Business Opportunities and Implementation Challenges

Moderator: Matthew Lucas, (Ph.D, Computer Science) and VP, **TeleStrategies**  
And invited panelists from US telecom operators

4:30-5:30 p.m.

#### Cyberthreat Information Sharing -- Business Opportunities for ISS Vendors

Moderator: Matthew Lucas, (Ph.D, Computer Science) and VP, **TeleStrategies**  
And invited panelists from the ISS vendor community

## Track 6

### Facial Recognition Technology for Criminal Investigations and Intelligence Gathering

This track is for law enforcement and intelligence analysts who have to understand facial recognition technology applications which can be offered today and which ones are a work in progress.

#### Wednesday, 25 September 2013

1:00-2:00

#### Facial Recognition Readiness: An Overview of What Criminal Investigators and Intelligence Analysts Need to Know

Thirimachoa Bourlai, Assistant Professor, Lane Department of Computer Science and Electrical Engineering, **West Virginia University**

2:15-3:15

#### Panel of Government Executive Currently or Planning to Deploy Facial Recognition Technology Programs

Panel to be Announced

3:30-4:30

#### "Best Practices" for Deploying Facial Recognition Technology into Existing Law Enforcement and Intelligence Gathering Operations

Panel of Facial Recognition Subject Matter Experts

## 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.

#### Thursday, 26 September 2013

9:00-10:00 **Session A**

#### Predictive Policing

Carter Craft, Vice President, **HMS TECHNOLOGIES**

9:00-10:00 **SESSION B**

#### IMSI/IMEI Catcher with Public Number Detection. CDMA Catcher **NeoSoft AG** presenter to be announced

11:30-12:30

#### Next Generation Big Data: Integrating Analytics with Intercept

Jerry Miller, Director, Product Management, **NARUS**

1:30-2:30 **SESSION A**

#### Hybrid Storage for Social Media Monitoring-Optimizing flash technology DDN

**DDN** Presenter to be announced

1:30-2:30 **SESSION B**

#### Global Geolocation and Tracking: how to achieve GPS precision without GPS? A new product demonstration

Jean-Philippe Lelievre, Founder and President, **Hear & Know**

3:15-4:15 **SESSION A**

#### Automated Target Surveillance using **Detica GCS'** capabilities

Thomas Donslund – **BAE Detica GCS** Protect Product Director

3:15-5:30 **SESSION B**

#### What is possible and not possible with Google's Index

Stephen Arnold, President, **ArnoldIT**  
Ric Manning, **Augmentext/ArnoldIT**

#### Friday, 27 September 2013

8:30-9:30 **Session A**

#### From Needs to Technology – Use Cases for Social Network Monitoring, Intrusive Surveillance, Network-Based Surveillance, OSINT and Virtual HUMINT

**AREA** presenter to be announced

#### Known Vulnerabilities of Today's Business Intelligence/Competitive Intelligence Content Processing Systems

Stephen Arnold, President, **ArnoldIT**  
Ric Manning, **Augmentext/ArnoldIT**

10:30-11:30 **SESSION A**

#### Predictive Policing

Carter Craft, Vice President, **HMS TECHNOLOGIES**

11:00-11:30 **SESSION B**

#### Active, Passive and Hybrid GSM, 3G, LTE & CDMA Monitoring systems. Randomization, A5.3 etc. Practical solutions.

**NeoSoft AG** presenter to be announced

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### Lead Sponsor

SS8 is a leading worldwide provider of end-to-end communications and cyber intelligence solutions. We enable LEAs and national governments to collect and monitor current and evolving voice and IP data communications in accordance with local laws and standards. Our solutions empower telecommunications providers to get the most return on their compliance investments, and we efficiently support a wide range of protocols, applications and communication methods, regardless of what device, application, or network type today's terrorist or criminals use. We recognize that in today's world of known threats, new approaches are necessary to uncover the unknown.



### Associate Lead Sponsors

AREA is a market-leading independent provider of turn-key, fully integrated end-to-end communication surveillance solutions for law enforcement organizations worldwide. The MCR solution portfolio ranges from interception/mediation to collection/retention as well as data analysis. Leveraging our extensive track-record and field experience, we aim to provide solutions which simplify complexity



Gamma International has developed for Law Enforcement and Intelligence Agencies its own FinFisher IT Intrusion Portfolio, which is a comprehensive range of professional offensive tools for information gathering, sniffing, manipulation and exploitation. FinFisher is proving to be instrumental in the fight against child pornography, cybercrime, pedophilia, human trafficking, drug smuggling, terrorism, and other criminal activities. For more information contact: info@gammagroup.com



Hacking Team provides the premier offensive technology solution: Remote Control System. Proven by more than 10 years of worldwide adoption and designed to fulfill LEAs and Security Agencies highest expectations, newly released version 8 "Da Vinci" gives you total control over endpoint devices, offering the widest selection of infection vectors, showing total invisibility to protection systems and implementing the most sophisticated data gathering techniques. Find out more at [www.hackingteam.com](http://www.hackingteam.com)



HMSTECHNOLOGIES is showcasing GEOCOP, a force multiplier which enhances law enforcement and intelligence operations. GEOCOP is a web-based voice, video, and data overlay technology which instantly connects people, Geospatial Applications, and knowledge with operational processes. It also includes TACTrend which monitors the social spectrum for actionable intelligence. For more information, visit [www.hmstech.com](http://www.hmstech.com).



NeoSoft AG is a world-wide known manufacturer of Monitoring security systems such as: Passive, Active (Semi-Active), Hybrid GSM Monitoring systems with A5.2/A5.1 deciphering; CDMA Passive Monitoring systems; IMSI/IMEI Catchers 2G and 3G and InPoint SMS System. All our systems support the following bands: GSM, PCS, EGSM, 2100 and 850. Our systems are widely used for victim detection and recovery during various acts of terrorism and natural disasters.



VUPEN is the leading provider of IT intrusion and offensive cyber security capabilities. VUPEN provides private and highly sophisticated exploits (attack/infection vectors) specifically designed for the Intelligence community, LEAs, and national security agencies to help them remotely and covertly install any monitoring software on target computers, laptops, and mobile devices during lawful intercept and criminal investigation missions. For more information: <http://www.vupen.com>

### Exhibitors and Sponsors

### Exhibits:

26 September 2013  
10:00 a.m. - 3:00 p.m.

27 September 2013  
9:30 a.m. - 12:30 p.m.

