TeleStrategies®

ISS World Europe

Intelligence Support Systems for Electronic Surveillance, Social Media/DarkNet Monitoring and Cyber Threat Detection

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Where Law Enforcement, Government Intelligence Agencies and Financial Crime Investigators turn for Technical Training and Product Selection

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ISS WORLD EUROPE is the world’s largest gathering of Regional Law Enforcement, Intelligence and Homeland Security Analysts, Telecoms as well as Financial Crime Investigators responsible for Cyber Crime Investigation, Electronic Surveillance and Intelligence Gathering.

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

**ISS WORLD EUROPE 2022 PROGRAM AGENDA**

**Training Seminars Led by Law Enforcement Officers and Ph.D., Computer Scientists**

20 classroom training hours, presented by Law Enforcement Officers and Ph.D. Scientists

- **Charles Cohen**, Vice President at NW3C, the National White Collar Crime Center, Professor in Practice Criminal Justice, Indiana University and Retired Captain, Indiana State Police, USA
  - 6 classroom hours
- **Mark Bentley**, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police
  - 7 classroom hours
- **Jerry Lucas** (Ph.D., Physics), President, TeleStrategies
  - 2 classroom hours
- **Matthew Lucas** (Ph.D., Computer Science), VP, TeleStrategies
  - 3 classroom hours
- **Vladimir Vesely** (Ph.D., Computer Science) Researcher, Brno University of Technology
  - 2 classroom hours

**Tuesday, 14 June 2022**

**SEMINAR #1**

**Online Social Media and Internet Investigations**

- Presented by: Charles Cohen, Vice President at NW3C, the National White Collar Crime Center, Professor in Practice Criminal Justice, Indiana University and Retired Captain, Indiana State Police
  - 08:30-15:05

**SEMINAR #2**

**Practitioners Guide to Internet Investigations**

- Presented by: Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police
  - 08:30-09:20

**SEMINAR #3**

**Understanding Mobile 2G, 3G, 4G & 5G NSA Infrastructure and Law Intercept for Technical Investigators**

- Presented by: Dr. Jerry Lucas, President, TeleStrategies
  - 08:30-09:20

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**Exhibits Schedule**

**Wednesday, 15 June 2022**

- Lawful Interception and Criminal Investigation Training
- LEA, Defense and Intelligence Analyst Product Demonstrations
- Social Network Monitoring, Artificial Intelligence and Analytics Product Training

**Thursday, 16 June 2022**

- Threat Intelligence Gathering and Cyber Security Product Training
- Investigating DarkWeb, Bitcoin, Altcoin and Blockchain Transaction
- Mobile Signal Intercept and Product Demonstrations
- Electronic Surveillance Training and Product Demonstrations
- 5G Lawful Intercept, Tracking and Forensics Product Training

Plus Special Training Seminars lead by Law Enforcement Officers and Ph.D. Scientists
SEMINAR #4
09:25-10:15
Understanding 5G Stand Alone NFV, Edge Computing and Network Slicing
- Presented by: Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies

Cellular market analysts collectively have identified 5G services deployed in over 400 cities spread over 30 or so countries. The one common feature of all these operations is that they are providing 5G services with a 4G/5G hybrid network infrastructures or so-called non-Stand Alone (NSA) architecture. This session addresses the transition to 5G stand alone. (Full description below Track 9)

SEMINAR #5
10:35-11:25
Understanding Advanced Techniques to Defeat (or Work Around) Encrypted Third Party Services, Bitcoin Anonymity, TOR/HS and iPhone Encryption
- Presented by: Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies

You can't defeat today's encryption (at least not that we know of) but law enforcement and the government intelligence community can "work around encryption" for a price. Once you identify a target using commercially available encryption products or services and (with enough resources or money) government can defeat the target near 100% of the time.

SEMINAR #6
13:00-14:00
Top 20 Open Source Tools (OSINT) Used in Cybercrime Investigations
- Presented by: Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police

Wednesday, 15 June 2022

8:30-9:00
Top Ten Internet Challenges Facing Law Enforcement and the Intelligence Community and Who at ISS World Europe has Solutions
- Dr. Jerry Lucas, President, TeleStrategies

SEMINAR #7
11:30-12:20
Locating and Tracking Devices by MAC Addresses and App-Based SDKs plus Privacy Measures by Apple & Google
- Presented by: Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies

Thursday, 16 June 2022

SEMINAR #8
09:15-10:00
Lawful Interception and Communication Data, Current & Future Challenges: Mobile, Cyber Security, Virtualization and AI - An industry view
- Alex Leadbeater, 3GPP SAA-LI and ETSI TC Cyber Chairman and Head of Global Obligations Future and Standards, BT Security

10:35-11:25
Password Cracking in Practice
As more and more traffic and data on the Internet are being protected end-to-end, decrypting information becomes more critical than ever before. The presentation outlines password-cracking use-cases, employed formats, current GPU/FPGA performance limits, and existing (non-)commercial cracking tools. Speaker will show how to: a) automatically extract hashes from encrypted documents; b) prepare and evaluate password cracking use cases, employed formats, current GPU/FPGA performance limits, and existing (non-)commercial cracking tools. Participants will be provided with tips and tricks on how to use Hashcat more effectively and how to distribute password cracking task on their infrastructure.
- Vladimír Vesely (Ph.D, Computer Science) and Jan Pluskal, Researchers, Brno University of Technology

11:45-12:30
Social Media/DarkNet Monitoring
Gathering, Cyber Security and Intelligence Support Systems for Electronic Surveillance, Social Media/DarkNet Monitoring and Cyber Threat Detection
- Presented by VASTech

The presentation introduces methods addressing both of these phenomena - intercepting TLS/SSL connections with the help of man-in-the-middle attack employing proxy and automatically creating snapshots of problematic web pages. Speakers outline necessary theory (including news about TLS 1.3, HSTS, HTTP3.0), well-known attacks (e.g., renegotiation, downgrade, cipherspec change and others), and industry-standard tools for traffic analysis (such as Wireshark, Fiddler proxy, SSL-Split) and decoding (e.g., Selenium, Scrapy). The session will include a live demo of MitM attack on HTTPS connection enhanced with covert extraction of form data, which would be later used to periodically web scrape and archive protected content.
- Vladimír Vesely (Ph.D, Computer Science) and Jan Pluskal, Researchers, Brno University of Technology

Tuesday, 14 June 2022

09:00-10:00
Lawful Interception and Criminal Investigation Training
This track is for Telecom Operators and Law Enforcement/Intelligence/Defense Analysts who are responsible for specifying or developing lawful intercept network infrastructure.
- Presented by mh Service GmbH

Tuesday, 16 June 2022

08:30-09:20
Intercepting and Collecting Web Evidence in the Times of TLS1.3 and HTTP3.0
The end-to-end HTTPS encryption and the volatile nature of web content make any interception and collection of data on the Internet a challenge.
The presentation introduces methods addressing both of these phenomena - intercepting TLS/SSL connections with the help of man-in-the-middle attack employing proxy and automatically creating snapshots of problematic web pages. Speakers outline necessary theory (including news about TLS 1.3, HSTS, HTTP3.0), well-known attacks (e.g., renegotiation, downgrade, cipherspec change and others), and industry-standard tools for traffic analysis (such as Wireshark, Fiddler proxy, SSL-Split) and decoding (e.g., Selenium, Scrapy). The session will include a live demo of MitM attack on HTTPS connection enhanced with covert extraction of form data, which would be later used to periodically web scrape and archive protected content.
- Vladimír Vesely (Ph.D, Computer Science) and Jan Pluskal, Researchers, Brno University of Technology

09:25-10:15
Carrier in Carrier Analysis: Determine the impact of Carrier in Carrier technology on your satellite monitoring capabilities
Presenting the challenges posed by Carrier in Carrier technologies and VASTech's approach to the analysis of Carrier in Carrier signals and the separation of Symmetrical and Asymmetrical Carrier in Carrier Signals.
- Presented by VASTech
Wednesday, 15 June 2022

09:00-10:00  | SESSION A
A new era: strategic drone attacks
- Presented by NSO Group

09:00-10:00  | SESSION B
Cutting through the noise with intelligent data acquisition
- Jez Nelmes, BAE Systems AI

13:00-13:40  | SESSION C
Intelligence IoT: Networked Tactical Intelligence
- Presented by Ateros

13:00-13:40  | SESSION D
Turning mass encrypted network traffic into valuable intelligence
- Presented by Wintego

14:15-15:05  | SESSION B
Don’t let the new 5G SA Privacy Features stop you from catching IMSIs
- Sander de Jong, Group 2000

14:15-15:05  | SESSION C
Memento Labs present the totally brand-new arsenal for deep monitoring criminals
- Presented by Memento Labs

15:25-16:05  | SESSION B
Catch the spyware! A non-intrusive approach to spot potential infections of mobile devices over the air
- Presented by Rohde Schwarz

15:25-16:05  | SESSION C
Commercial SIGINT – unrestricted, global and large-scale accurate geo-monitoring and profiling of connected devices
- Presented by GeoGence

Thursday, 16 June 2022

08:30-09:10  | SESSION A
A light in the darkness of Encrypted Communications
- Presented by AREA

08:30-09:10  | SESSION B
FibreSignal Analysis: What intelligence value does a fibre link contain?
- Presented by VASTech

09:15-10:00  | SESSION A
Real Time Application Forensics: Finding suspects and evidence on an encrypted internet
- Presented by Sandvine

09:15-10:00  | SESSION B
Practical and creative example of modifying Android OS by HEX editing system files, and having regular applications to achieve surveillance.
- Denis Cuculic, CEO ex. Head of Technical Department, PRO4SEC

11:00-11:40  | SESSION A
A new perspective for field operations - supporting Cyber operations in the field
- Presented by Tryvicer

13:00-14:00  | SESSION B
Memento Labs - Live Demo
- Presented by Memento Labs

11:45-12:30  | SESSION A
Data Enrichment Techniques and Sources for Internet Investigations
- Presented by Packet Forensics
Wednesday, 15 June 2022

9:00-10:00  SESSION A
Tactical Web Intelligence (WEBINT): Gathering Actionable Intelligence via a powerful WEBINT platform
  • Presented by Cobwebs

9:00-10:00  SESSION B
Location & Open Source Intelligence: Real Life Case Studies & Live Demonstration
  • Presented by Cobwebs

13:00-13:40  SESSION B
Discover the Unknowns of the Digital Sphere
  • Presented by Ultra

15:00-15:45  SESSION C
CLOS-INT Closed Source Intelligence from Web2.0 sources
  • Presented by AREA

16:30-17:15  SESSION A
VoIP Forensics: Revealing encrypted VoIP communication network of criminal organizations
  • Presented by Sandvine

Thursday, 16 June 2022

09:15-10:00  SESSION A
Information overkill: finding the relevant pieces of the puzzle across multiple data sources to detect and prevent terror and crime.
  • Presented by Innosystec

09:15-10:00  SESSION B
How to Protect the Status of Data Traffic Without Changing the Status Quo
  • Presented by Allot

09:15-10:00  SESSION C
Welcome to the era of DNA analysis in OSINT
How to save 40 years and conduct an investigation in a few days?
  • Presented by Social Links

13:00-14:00  SESSION A
Top 20 Open Source Tools (OSINT) Used in Cybercrime Investigations
  • Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, UK Police

09:15-10:00  Track 4
Threat Intelligence Gathering and Cyber Security Product Training
This track is only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees

Tuesday, 15 June 2022

10:35-11:25
Maximize Geolocation Intelligence to Investigate the Past & Prevent Future Crimes (DEMO)
  • Presented by Rayzone Group

11:30-12:20
Hushmeeting: creating an iron-clad and quantum-safe communication environment
  • Presented by Feedback Italia

16:10-17:00
Obtaining valuable information from information from the latest versions of MacOS
  • Presented by MOLLITIAM CYBERINTELLIGENCE

Wednesday, 15 June 2022

9:00-10:00
Construct, Visualize and Analyze Digital Trails through Big Data (DEMO)
  • Presented by Rayzone Group

13:00-13:40
Hushmeeting: creating an iron-clad and quantum-safe communication environment
  • Presented by Feedback Italia

15:00-15:45
Secure National Critical Infrastructure and Organizational IT
  • Presented by Rayzone Group

15:45-16:30
Exploitation & Operations Security (OpSec) in Cyber Intelligence Ops
  • Presented by Secfense

Thursday, 16 June 2022

11:45-12:30
Riots in Colombia: crowd control on the internet
  • Presented by MOLLITIAM CYBERINTELLIGENCE

Track 5
Investigating DarkWeb, Bitcoin, Altcoin and Blockchain Transaction
This track is for law enforcement and private enterprise investigators who have to monitor and investigate the DarkNet along with Bitcoin transactions associated with criminal activities
Note: Some sessions are only open to LEA and Government. These sessions are marked accordingly.

Tuesday, 14 June 2022

16:10-17:00
Live Demonstration of DarkOwl Vision: Darknet Intelligence Discovery and Collection
  (THIS SESSION IS ONLY OPEN TO LEA AND GOVERNMENT ATTENDEES)
  • David Alley, CEO, DarkOWL FZE

Wednesday, 15 June 2022

13:00-13:40
Offline darknet investigation with the Web-l-Qube
  • Presented by mh Service GmbH

Thursday, 16 June 2022

8:30-9:10
Know Now What Your Suspects Will Do Tomorrow
  • Presented by ClearTrail

9:15-10:00
Workshop on Correlating Blockchain Activity with Real-Life Events and Users
The session starts with the outline of current methods for blockchain and traffic analysis. Speaker explains in detail the properties of cryptocurrencies, including address clustering, coin-joining of inputs, transaction mixing, and traffic correlation. It then focuses on employing previously described methods to obtain intel about dark marketplace operators, vendors, and buyers. To address cryptocurrency forensics, we have developed a set of tools (exclusively available to law enforcement agencies) that are capable of correlating things happening in real-life with the blockchain. Moreover, participants will have a chance to bring their cryptocurrency addresses/transactions for assessment.
  (THIS SESSION IS ONLY OPEN TO LEA AND GOVERNMENT ATTENDEES)
  • Vladimir Vesely (Ph.D., Computer Science) and Jan Pluskal, Researchers, Brno University of Technology

11:00-11:45
De-anonymizing cryptocurrency transactions to fight crime and terror
  (THIS SESSION IS ONLY OPEN TO LEA AND GOVERNMENT ATTENDEES)
  • Presented by Cognyte (Formerly a Verint company)

Track 6
Mobile Signal Intercept Product Training and Demonstrations
This track is for Law Enforcement, Interior Security and the Government Intelligence Community who must work with cellular and mobile satellite operators regarding mobile location, electronic surveillance and RF intercept.
Tuesday, 14 June 2022

8:30-9:20  SESSION B
Understanding Mobile 2G, 3G, 4G and 5G NSA Infrastructure, Intercept and Cryptography
  • Dr. Jerry Lucas, President, TeleStrategies
9:25-10:15
detect & Prevent Communication Interception Systems in Real-Time
  • Presented by Rayzone
10:35-11:25
VSAT Networks: Tactical and Strategic Threat Detection and Geolocation
  • Presented by Kratos
11:30-12:20  SESSION B
SCPC/VSAT Interception in CiC/CuC Scenarios
  • Presented by Rohde Schwarz

Wednesday, 15 June 2022

9:30-10:00
Tactical Intelligence solutions for evolving threats and technologies
  • Presented by Cognitye (Formerly a Verint company)
13:45-14:30
Overcoming geolocation challenges in a complex mobile world
  • Ahmed Hamza, Intersec

Thursday, 16 June 2022

09:15-10:00
5G Tactical solutions and interoperability
  • Presented by EXFO

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*Note: To attend the LEA/DHS/IC/DoD Training Tracks 2, 3, 4, 6 and 7 you must be a sworn law enforcement officer or military/intelligence/government employee. Also you must register by 10 June 2022 in order to verify eligibility. Government photo ID required for classroom access.

11:00-11:40
Mobile Radio Analysis Solutions with 5G for Government
  • Presented by Rohde Schwarz
11:45-12:30
An Entirely New Approach for Digital Forensics and Intelligence-collection from IoT Devices
Connected-devices store vast amount of data, that may be game changing in the fight against terror and crime. However, security, defense and law enforcement agencies face a great number of challenges in gaining access and extract digital data in a quick, simple and effective manner. In this session, Toka will introduce its groundbreaking software-based platforms for obtaining digital forensics and ongoing intelligence from highly demanding devices, using advanced cyber technologies.
  • Presented by Toka

Track 7
Electronic Surveillance Training and Product Demonstrations
This track is for law enforcement investigators and the government intelligence community who are responsible for deploying video, audio and GPS surveillance products and only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

Tuesday, 14 June 2022

9:25-10:15
A Safe Landing based approach to Sensitive and Urban Scenario Counter-Drone Defense
Traditional counter-drone solutions have a role to play in a multi-layered defense strategy, but they do not offer the required control and continuity in sensitive environments. During his session, “Taking Control with Drone Takeover C-UAS Technology for Sensitive & Urban Environments,” Nadav Horowitz, Product Manager, D-Fend Solutions, highlights

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Online: www.issworldtraining.com

Tuesday, 15 June 2022

15:45-16:25
An Entirely New Approach for Digital Forensics and Intelligence – collection from IoT Devices
  • Presented by Toka
16:30-17:15
Border Security and Force Protection Analytics using Passive RF
  • Presented by Packet Forensics

Track 8
5G Lawful Interception Product Training
This track is open to all conference attendees unless marked otherwise.
Note: Some sessions are only open to LEA and Government. These sessions are marked accordingly.

Tuesday, 14 June 2022

9:25-10:15
Understanding 5G Stand Alone NFV, Edge Computing and Network Slicing
  • Matthew Lucas (Ph.D, Computer Science), VP, TeleStrategies
16:10-17:00
Impact of 5G on LEAs Usage of Cell Site Simulators & Alternative Solutions
  • Presented by SS8

Wednesday, 15 June 2022

Training Seminars Led by Law Enforcement Officers and Ph.D Computer Scientists
Intelligence Support Systems for Real-Time Threat Intelligence Gathering, Cyber Security and Cyber Crime Investigations

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