

ISSWorld North America

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

NOVEMBER 7-9, 2023 • WASHINGTON, DC



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ISS World North America is the world's largest gathering of North American Law Enforcement, Homeland Security, Defense, Public Safety and other members of the Government Intelligence Community as well as Telecom Operators responsible for cyber threat intelligence gathering, DarkNet monitoring, lawful interception, and cybercrime investigations.

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

Lawful Interception and Social Network Monitoring Training

Track 2

LEA, Defense and Intelligence Gathering Product Presentations

Track 3

Social Network Monitoring, OSINT and Data Analytics Product Presentations

Track 4

Investigating Dark Web and Cryptocurrency Transaction Traceback

Track 5

Mobile Signal, 5G Intercept and Electronic Surveillance Product Presentations

ISS World North America 2023 Agenda at a Glance Special Training Seminars (23 Classroom Hours)

- Led by Law Enforcement Officers and Ph.D Computer Scientists

Tuesday, November 7, 2023

Online Social Media and Internet Investigations

(6 Classroom Hours)

- 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**

Practitioners Guide to Internet Investigations

(6 Classroom Hours)

- Presented by: **Mark Bentley**, Communications Data Expert, National Cyber Crime Law Enforcement, **UK Police**

Understanding 2G/3G/4G/5G Infrastructure for Lawful Intercept

(1 Classroom Hour)

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

Understanding 5G NFV, Network Slicing and Edge Computing for Law Enforcement Investigators

(1 Classroom Hours)

- Presented by: **Matthew Lucas** (Ph.D., Computer Science, VP, **TeleStrategies**)

ISS World North America Exhibit Hours

Wednesday, November 8, 2023
10:00 AM-6:00 PM

Thursday, November 9, 2023
9:30 AM-1:00 PM

Defeating Network Encryption: What Law Enforcement and The Intelligence Community Needs to Understand

(1 Classroom Hours)

- Presented by: **Matthew Lucas** (Ph.D., Computer Science, VP, **TeleStrategies**)

Locating and Tracking Devices by MAC Addresses and app-based SDKs: Limitations and Emerging OS-based Privacy Measures (e.g., Apple/Google)

(1 Classroom Hours)

- Presented by: **Matthew Lucas** (Ph.D., Computer Science, VP, **TeleStrategies**)

Understanding Artificial Intelligence and Generative AI Applications for Law Enforcement and Government Intelligence Analysts

(1 Classroom Hours)

- Presented by: **Matthew Lucas** (Ph.D., Computer Science, VP, **TeleStrategies**)

A Real World Look at Investigations in the Dark Web

(6 Classroom Hours)

- Presented by: **Todd G. Shipley**, CFE, CFCE, and Co-Author of Investigating Internet Crimes: An Introduction to Solving Crimes in Cyberspace and Retired Investigator, **Reno NV, Police Department**

Wednesday, November 8, 2023

8:15-8:30 AM

Welcoming Remarks

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

8:30-9:00 AM

Top Ten Challenges Facing Law Enforcement and the Government Intelligence Community and Who at ISS World North America has Solutions

- **Dr. Jerry Lucas**, President,

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Track 1

Lawful Interception and Social Network Monitoring Training

Tuesday, November 7, 2023

9:00 AM-5:00 PM

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**

9:00-10:00

Proxies, VPNs, and Dark Web: Identity Concealment and Location Obfuscation

10:15-11:15

Tor, onion routers, Deepnet, and Darknet: An Investigator's Operational Perspective

11:30-12:30

How Criminals exploit Darknet Services and Dark Markets: A Deep Dive for Criminal Investigators

1:30-2:30

Tor, onion routers, Deepnet, and Darknet: Investigative Strategies & Case Studies

2:45-3:45

Device Geolocation through GPS, Wi-Fi Triangulation, Cell site Trilateration, BLE Beacons, and Ultra-Wideband: What Investigators Need to Know

4:00-5:00

Collecting Evidence from Online Communication: Building a Cyber-OSINT Toolbox

11:30 AM-12:30 PM

Defeating Network Encryption: What Law Enforcement and The Intelligence community Needs to Understand

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

1:30-2:30 PM

Locating and Tracking Devices by MAC Addresses and app-based SDKs: Limitations and Emerging OS-based Privacy Measures (e.g., Apple/Google)

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

2:45-3:45 PM

Understanding Artificial Intelligence and Generative AI Applications for Law Enforcement and Government Intelligence Analysts

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

Track 2

LEA, Defense and Intelligence Gathering Product Presentations

* Note: Sessions in this track are only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

Tuesday, November 7, 2023

9:00 AM-5:00 PM

Practitioners Guide to Internet Investigations

- Presented by: Mark Bentley, Communications Data Expert, National Cyber Crime Law Enforcement, **UK Police**

The aim of this 1-day seminar is to take the attendees from the basics of understanding the Internet, how to find data, through to a full understanding of best practice of an Internet investigator, building their OSINT toolbox, and having awareness and knowledge of all the tools available to achieve this. It is aimed primarily at the investigator, delivered from the perspective of detective,

to empower them to have the best methodology and tradecraft to profile and catch suspects.

This is exclusively Law Enforcement only, as Practical examples, covert and investigative methodology and tradecraft will be given throughout the seminar.

9:00-10:00

The Internet, and how suspects leave a Digital Footprint. How the system works for us, as investigators

10:15-11:15

Recognizing Traffic Data and digital profiling via social networks and devices - digital shadows

11:30-12:30

WIFI, geolocation, and Mobile Data traces and tracking

1:30-2:30

Awareness of Emerging Technologies, Masking Tech and Tools, TOR and proxies

2:45-3:45

Advanced Techniques in Tracing Suspects, and lateral problem solving

4:00-5:00

Open Source Tools, PART 1. Resources, tradecraft and techniques - highlighting the best free tools and resources

Wednesday, November 8, 2023

9:00-10:00 AM **SESSION A**

Encryption is one of the most common and relevant challenges for every LEA.

- Presented by **AREA**

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

The future of digital data collection and analytics

- Ariel Karayev, Strategic Pre-Sales Expert, **Cellebrite**

1:00-1:45 PM **SESSION A**

Combating terrorism, espionage and crime by combining mobile network metadata, mass positioning, and intelligent profiling in real-time

- Mohsen Tavakol, Chief Executive Officer, **Xolaris**

1:00-1:45 PM **SESSION B**

WhatsApp, Telegram, Facebook... how IPS helps you to locate most wanted targets with LI

- Presented by **IPS**

2:00-2:45 PM **SESSION A**

Modernizing Digital Investigations: Automation and Data Enrichment for Efficient and Effective Case Resolution

- Meirav Gingold, Product Owner, **Cellebrite**

2:00-2:45 PM **SESSION B**

Implementing New Investigation Use-cases for LEAs

- Presented by **Matison**

3:15-4:00 PM

Using PCAP Forensics to Solve a Child Trafficking Case

- Presented by **Sandvine**

4:15-5:00 PM

Who is communicating with who? - IP end point detection

- Morten Kinly Klinge, Product Marketing Manager, **XCI**

Thursday, November 9, 2023

8:30-9:30 AM

Survival of IMSI catchers in 5G Mobile Networks

- Presented by **Utimaco**

10:30-11:30 AM

Profiling Suspects' Online Footprint with Digital Witness

- Presented by **Sandvine**

Track 3

Social Network Monitoring, OSINT and Data Analytics Product Presentations

* Note: Sessions in this track are only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

Wednesday, November 8, 2023

9:10-10:00 AM

Unravel the Mystery of Virtual & Network Identifiers

- Presented by **Cobwebs**

1:00-1:45 PM

Using OSINT with visual link analysis to enhance your investigations

- Presented by **Maltego**

2:00-2:45 PM **SESSION A**

OSINT and Forensic Data Consolidation For Modern Investigations

- Presented by **Siren**

2:00-2:45 PM **SESSION B**

Leveraging Corporate Data to Investigate Criminal Networks

- Presented by **Cobwebs**

3:15-4:00 PM **SESSION A**

CDRs, IPDRs, Lawful Interception, IP content derived Metadata, Location, Forensic Investigations and many more.

- Presented by **AREA**

3:15-4:00 PM **SESSION B**

Automatic Exploitation of Social Network, Deep and Dark Web to complement traditional Lawful Interception Infrastructure for Target Profiling

- Presented by **IPS**

4:15-5:00 PM

AI Neural Machine Translations for Investigations and Monitoring

- Presented by **Systran**

Thursday, November 9, 2023

10:30-11:30 AM

Massive Social Media data collection and analysis for Counter-Terrorism Intelligence Activities

- Presented by **IPS**

12:00-1:00 PM

Open Source Tools, PART 2. Top 20 FREE Open Source Tools (OSINT) Used in Cybercrime Investigations

- **Mark Bentley**, Communications Data Expert, National Cyber Crime Law Enforcement, **UK Police**

Track 4

Investigating Dark Web and Cryptocurrency Transactions Traceback

* Note: Sessions in this track are only open to Law Enforcement, Public Safety and Government Intelligence Community Attendees.

Tuesday, November 7, 2023

A Real World Look at Investigations in the Dark Web

- Presented by: **Todd G. Shipley** CFE, CFCE, and CoAuthor of, Investigating Internet Crimes: An Introduction to Solving Crimes in Cyberspace and retired investigator, **Reno NV, Police Department**

9:00-10:00 AM

The Dark Web, what it is and what it is not

10:15-11:15 AM

To TOR or not to TOR

11:30-12:30 PM

CryptoCurrency and its use in the Dark Web

1:30-2:30 PM

Going Undercover on the Dark Web

2:45-3:45 PM

Using web bugs and other technology to locate a suspect

4:00-5:00 PM

Advanced Dark Web Investigations, identifying the anonymous use

Wednesday, November 8, 2023

9:10-10:00 AM

Defeating the Tor Dark Web: The Latest Updates, Evidence Collection, Countermeasures, and Investigation Techniques

- **Dr Gareth Owenson** BSc PhD PgC FHEA, Co-Founder and Chief Technology Officer, **Searchlight Security Ltd**

Track 5

Mobile Signal, 5G Intercept and Electronic Surveillance Product Presentations

* Note: Sessions in this track are only open to Government Attendees, unless marked otherwise

Tuesday, November 7, 2023

11:30-12:30 PM (Open to all attendees)

Understanding 2G/3G/4G/5G Infrastructure for Lawful Intercept

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

1:30-2:30 PM (Open to all attendees)

Understanding 5G NFV, Network Slicing and Edge Computing for Law Enforcement Investigators.

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

Wednesday, November 8, 2023

4:15-5:00 PM

Lawful Interception of IMS/VoLTE Roaming (S8HR)

- Presented by **Utimaco**

Thursday, November 9, 2023

8:30-9:30 AM

A complex Use Case.

- Presented by **AREA**

ISS World North America Exhibit Hours

Wednesday, November 8, 2023

10:00 AM-6:00 PM

Thursday, November 9, 2023

9:30 AM-1:00 PM

Registration Information Save \$300 by registering before October 7, 2023

Law Enforcement/DHS/IC/DoD Registration*

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| ISS World Conference Tracks, Training Tracks 1 through 5 | |
| Pre-Conference Seminars plus Exhibits..... | \$995 |
| Registration after October 7, 2023 | \$1,295 |

Telecommunications Service Provider or Enterprise Registration*

| | |
|---|---------|
| ISS World Conference Tracks Except Tracks 2, 3, 4 & 5 | |
| Pre-Conference Seminars plus Exhibits..... | \$995 |
| Registration after October 7, 2023 | \$1,295 |

Vendor Registration*

| | |
|---|---------|
| ISS World Conference Tracks Except Tracks 2, 3, 4 & 5 | |
| Pre-Conference Seminars and Exhibits | \$995 |
| Registration after October 7, 2023 | \$1,295 |

*Note: To Attend the LEA/DHS/IC/DoD Training Tracks 2, 3, 4 and 5 you must be a sworn law enforcement officer or military/intelligence/government employee. Also you must register by November 3, 2023 in order to verify eligibility. Government photo ID required for Tracks 2, 3, 4 & 5 classroom access.

Free Colleague Registration: Register as paid and you can invite a colleague to join you at ISS World North America with a full, free conference pass. If you have not identified your guest at this time, just enter "guest of" followed by your name and complete with your contact information. You can register your guest at no charge at a later time.

Conference and Exhibitions: The conference and exhibits will be held at the Sheraton Pentagon City Hotel at 900 South Orme Street, Arlington, VA 22204 in suburban Washington, DC. Phone: 1-703-521-1900.

International Attendees: If you need Visa assistance to attend ISS World, please contact Tatiana Lucas at talucas@telestrategies.com

Conference by Invitation Only: To attend ISS World you must be law enforcement, other government employee, private enterprise security/investigative personnel, telecom operator or an ISS vendor with LI, electronic surveillance, social media monitoring or analytics products. If you have questions e-mail Tatiana Lucas, ISS World Director at talucas@telestrategies.com

Registration

Phone: 1-703-734-7050

Fax: 1-703-734-9371

Online: www.telestrategies.com

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