

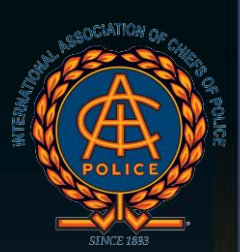
International Association of Chiefs of Police (IACP)

State, Local, Tribal, & Territorial Digital Forensics...

Addressing the Needs of Law Enforcement

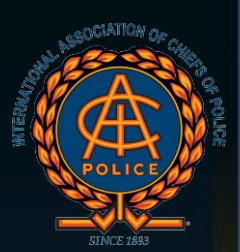
Serving the Leaders of Today, Developing the Leaders of Tomorrow





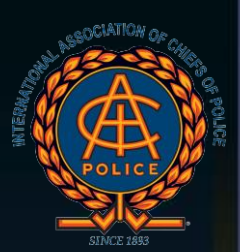
IACP Computer Crime and Digital Evidence Committee

- Collaborate with the US Partners;
 - BJA, NW3C, SEARCH, NIJ, FLETC, NIST, IJIS Institute, Cyber Shield Alliance, HTCIA
 - US FSLTT LEAs
 - Relevant Private Sector Stakeholders
- Collaborate with International partners;
 - EC3,
 - IGCI,
 - CACP, ACPO/NCCC, etc.
 - International LEAs
- Focus: Cybercrime Investigation, Digital Evidence, and LEA Cybersecurity



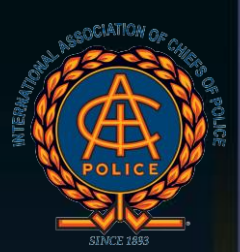
CCDE Background:

- **NIJ Digital Forensic Research (2001-2002)**
- **Computer Crime & Digital Evidence Committee (2010)**
- **Law Enforcement Cyber Center (2015)**
- **IACP Relevant Research/Awareness (2013-2016)**
 - LEA Executive Cybercrime and Digital Evidence Research
 - Partnering with IJIS Institute Digital Evidence Task Force
 - NW3C Polling of Practitioners



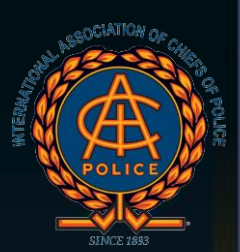
Digital Evidence Characteristics

- Clearly Increasing
 - Evidence/Tool of the Crime
 - Storage is Cheap and Expanding
 - Sources expanding
- LEA Data Sources are Increasingly Digital
 - Sensors/IoTs
 - Mobile Wireless
 - Autos/Telematics
 - Audio/Voice
- Massive Growth of Police Video
 - Body Worn, In Car, Detention
 - CIP, Tactical, UAV, Crime Scene



Digital Evidence Challenges

- Largescale Distributed Network Storage/Complexity
- Rapid Technological Change/Complexity
- Issues addressing:
 - Data in Use vs.
 - Data in Motion vs.
 - Data at Rest
- Barriers to Access; Technical/Legal

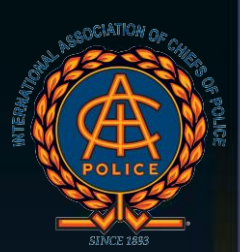


Demographics - 2008 BJS CSLLEA

SLTT LEA 2008 Demographics

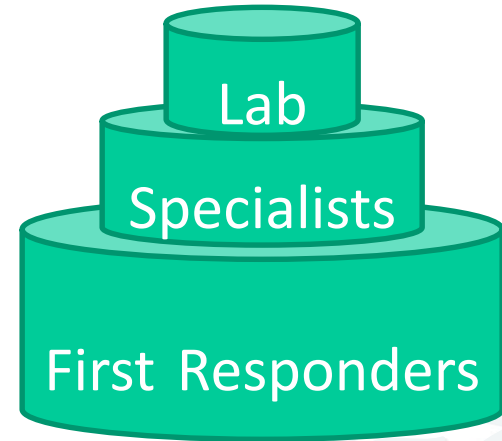
- 17,985 Agencies Total
- 13,096 Agencies < 25 Officers

= 73% < 25 Officers



SLTT LEA DE Handling

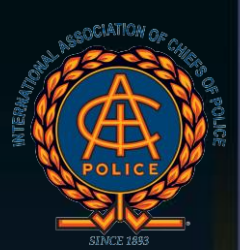
- Distributed Functions
- Lab vs. Field





2013 IACP Digital Evidence Research

- SLTT LEA Digital Forensic Partnerships:
 - Federal Task Force or Lab 25.5%
 - State Task Force or Lab 46.4%
 - Regional Task Force or Lab 36.4%
 - Local Partner or Mutual Aid 41.7%
 - Commercial Vendors 4.3%
 - Total 154.3%**

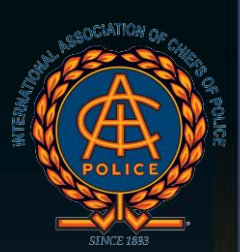


Universal Accreditation Policy Recommendation

- Mandates or Encourages DOJ/Non-DOJ FSSPs
 - Obtain and maintain accreditation
- What is an FSSP?

“A person or entity that

 - 1) recognizes, collects, analyzes, or interprets physical or digital evidence AND*
 - 2) issues test or examination results, provides laboratory reports, or offers interpretations, conclusions, or opinions through testimony with respect to the analysis of such evidence.”*
- Significant amount of SLTT LEA DE handling
 - Does normally Involve 1)
 - Does NOT always involve 2)
 - Potentially Analogous to Crime Scene Investigation and other field forensics



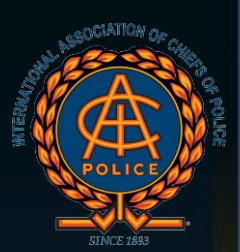
Universal Accreditation Policy Recommendation

- Additionally, the DOJ will
 - Require DOJ prosecutors to use accredited labs.
 - Use grant funding to encourage State and Local labs to pursue accreditation.

Appears to be a Federal Focused Policy?

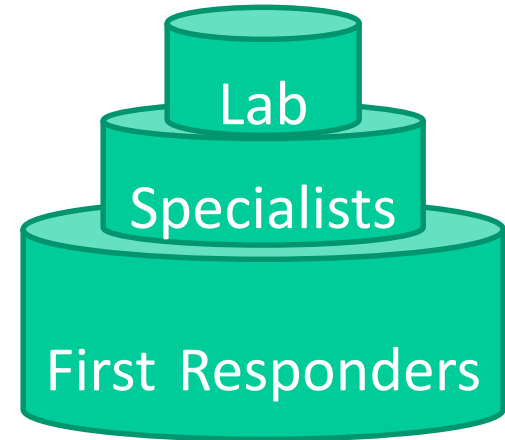
Level of FSLTT LEA Integration?

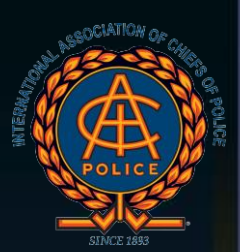
Task Force Related Funding?



SLTT LEA DE Quality Management

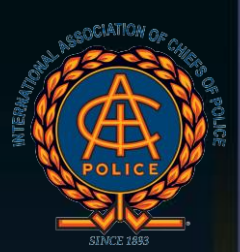
- Tool Validation
- Certification/Proficiency Testing
- Quality Management/Peer Review





IACP/NW3C Polling

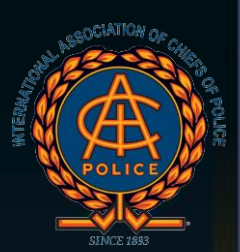
1. How does **tool validation** occur?
 - Local validation study with seeded evidence
 - Comparative tool limitation study with multiple tools
 - Manual validation of specific tool results
 - Mobile forensic tools – false negative variance
2. Is there any recurring process for **revalidation of tools**?
 - Validation or comparison frequency is based on change



IACP/NW3C Polling

3. How are **tool limitations** addressed?
 - Reporting and Documentation
 - Cataloging of Limitations
 - Alternate Tools
 - Tool revalidation

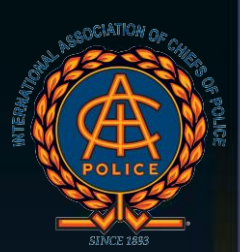
4. What is minimum **professional certification** for examiners?
 - No Single Standard...
 - IACIS CFCE
 - FLETC SCERS, NW3C, NCFI



IACP/NW3C Polling

5. What **quality control programs** are in place?
 - No Standard Program
 - Peer Review is most common
 - Standard Processes
 - Supervisory Review

6. What recurring **proficiency testing** occurs?
 - CFCE every 3 years
 - Some Certs/Tools every 2 years
 - Some Agencies every year



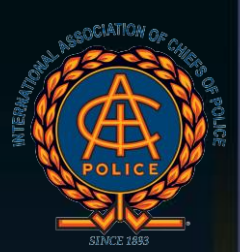
IACP Position

- Mandates and timing for accreditation must be tied to **adequate resourcing; appropriation of funds.**
- Application of universal accreditation to SLTT LEA or Non-DOJ FSSPs, should **remain voluntary.**
- Application of universal accreditation to SLTT LEA or Non-DOJ FSSPs, should **NOT affect eligibility** for **DOJ grant** money.
- Federal **Prosecutors should NOT be constrained** by accreditation of Non-DOJ FSSPs.
- **Definition of an FSSP** should **differentiate** between scientific laboratories and digital evidence investigation, digital evidence collection, digital evidence triage, and digital evidence examination.



Other Recommendations

- Creation of new ISOs precisely aligned with SLTT LEA DE handling and related field activities.
- Infusion of National resources into the tool validation process to speed up validation cycles and eliminate current gaps.
- Common DF certification and proficiency testing core curriculum.
- Development of state and regional models for cooperative peer review and quality management networks to address small agency needs.
- Development of model policy for SLTT LEA DE activities and handling.



IACP Law Enforcement Cyber Center

- For more information about the Center:
 - Email: cyber@theiacp.org
 - Website: www.IACPcybercenter.org
 - Access from the LEEP Portal