



Persistent Surveillance Support to Targeting

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Derived from:

Declassify on:



Agenda

- Joint Persistent Surveillance Integration Office (JPSIO)
- Feature Based GEOINT vs Activity Based GEOINT
- Persistent Surveillance Framework Model
- Objectives of Persistent Surveillance
- Critical technologies Underpinnings
- Ops-Intel Model
- Redefining Targeting



JPSIO Mission and Vision

- Mission: Provide collaborative leadership for enabling persistent GEOINT in the NSG and DOD
- Vision: To be the community focal point for guiding and integrating activities supporting the tasking, processing, exploitation and dissemination of GEOINT data collected in a persistent surveillance environment
 - Key interface with USDI, Joint Staff, Agencies, COCOMs and other leaders in the Persistent Surveillance community
 - Defining the persistent GEOINT TPED CONOPS, operational and technical architecture, standards



Feature Based GEOINT vs. Activity Based GEOINT

- Feature based GEOINT focuses on:
 - Structural components
 - Specific locations
- Activity based GEOINT focuses on:
 - Capturing activities as they occur
 - Developing and unraveling networks
- Persistent Surveillance moves us from being feature focused to being activity focused
- The focus of collection is activity – not the static image



Mission Domain

Intelligence

Operations

Strategic

Analyze/Exploit

Forensic analysis of FMV

Find

Operational

Fix

Real-time exploitation of WAPS (Angel Fire)

Finish

Tactical

Temporal Exploitation Domain
Forensic Real-time

WAPS (EO, MTI)

INSITU (UGS, Ground Cameras)

Traditional FMV



Objectives of Persistent Surveillance

- Capture, characterize, and geolocate activities or transactions
- Identify and geolocate actors or entities conducting activities or transactions
- Identify and geolocate networks between actors and/or entities
- Understand broader interactions between networks
- Develop pattern of life



Critical Technologies

- Data Discovery
 - Identify, track and automatically tag activity
 - Metadata and standards to enable rapid search and retrieval
- Data Integration
 - Common analytic environment that supports integration of multiple sources of intelligence
- Throughput
 - Better/smarter data compression/reduction methods or technologies
 - Improved storage capacities



Ops-Intel

- Persistent surveillance enables the development of intelligence in real time that can further refine or enhance the strategic intelligence picture and also impact current operations while they are on going.
- This breaks the traditional strategic vs. tactical dichotomy.

Currently having a significant impact in Iraq



Redefining Targeting

- As Persistent Surveillance redefines how intelligence supports operations, it is also redefining what is meant by targeting.
- Feature based GEOINT is no longer sufficient for asymmetric warfare with elusive adversaries
 - Must identify, track and target activities rapidly
 - Mission effectiveness is determined by the extent of impact on a network of actors/entities, not how much of a structure is left standing



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