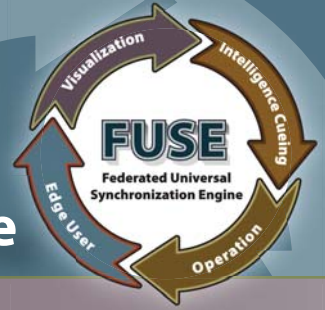


FUSE

Federated Universal Synchronization Engine



"Taskable" UAS Program

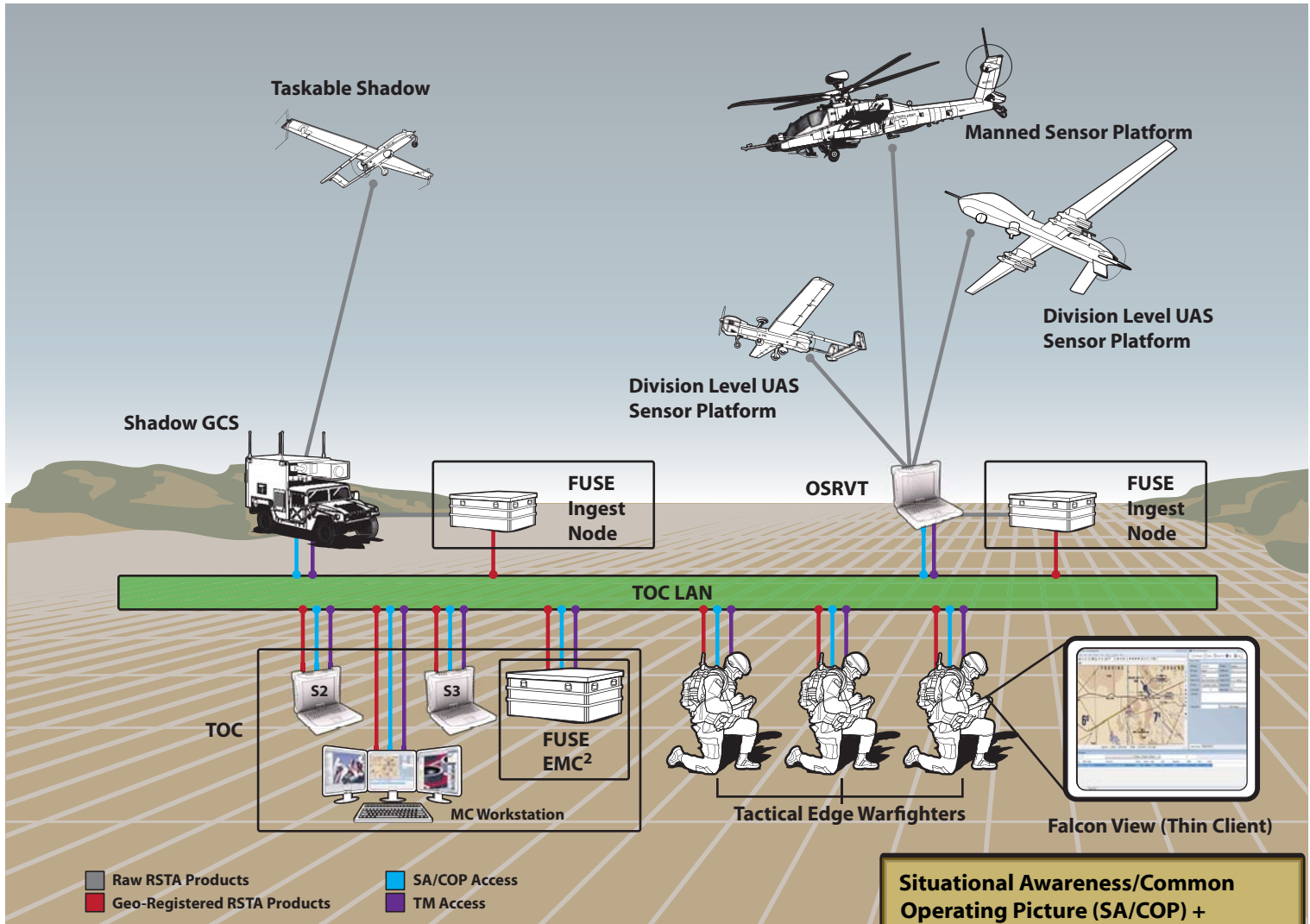
- Reconnaissance, Surveillance, Target Acquisition (RSTA) Products received, geo-registered, and stored on FUSE Remote Ingest Node
- Platform Operators view tasking via FUSE web-served session
- Platform may be assigned for collection request completion

Remote FUSE Ingest Mode

- Hosts MDAR imagery archive and retrieval software
- Performs geo-registration of ingested RSTA products
- Products available live or archived to all FUSE networked clients

"Ingestible" Sensor Platforms

- RSTA Products received, geo-registered, and stored on FUSE Remote Ingest Node
- Products available live or archived to all FUSE networked clients



Mission Coordinator (MC) Workstation

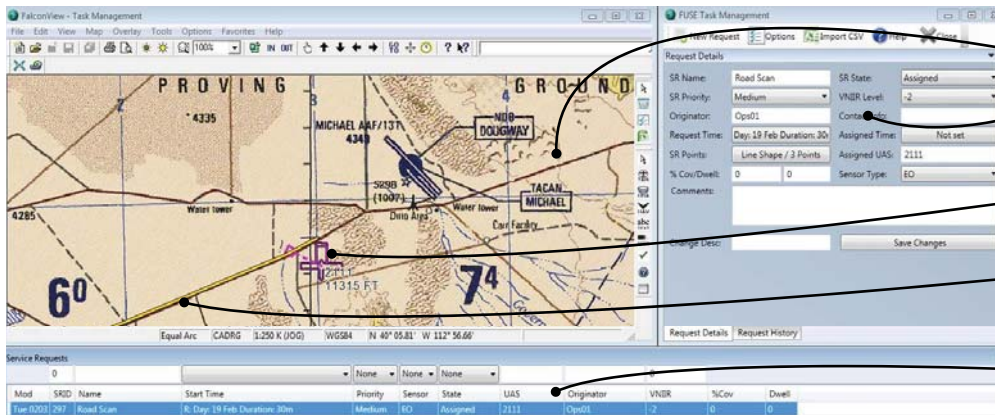
- Tactical Operations Center (TOC)-based asset to manage collection requests
- Provides TOC users with web access to FUSE

Enhanced Mission Coordinator Console (EMC²)

- Hosts LDAP server user account information
- Serves AMPS-based (FalconView) SA/COP interface to all network users

Situational Awareness/Common Operating Picture (SA/COP) + Task Management (TM) Access

- Web-served AMPS-based map display with FUSE SA/COP and TM plug-ins
- Allows users to enter requests and view results either live or archived
- Helps Mission Coordinator plan RSTA missions to maximize collect time and reduce non-productive transit time



Web-Served FalconView Session

Collection Request Dialog Box

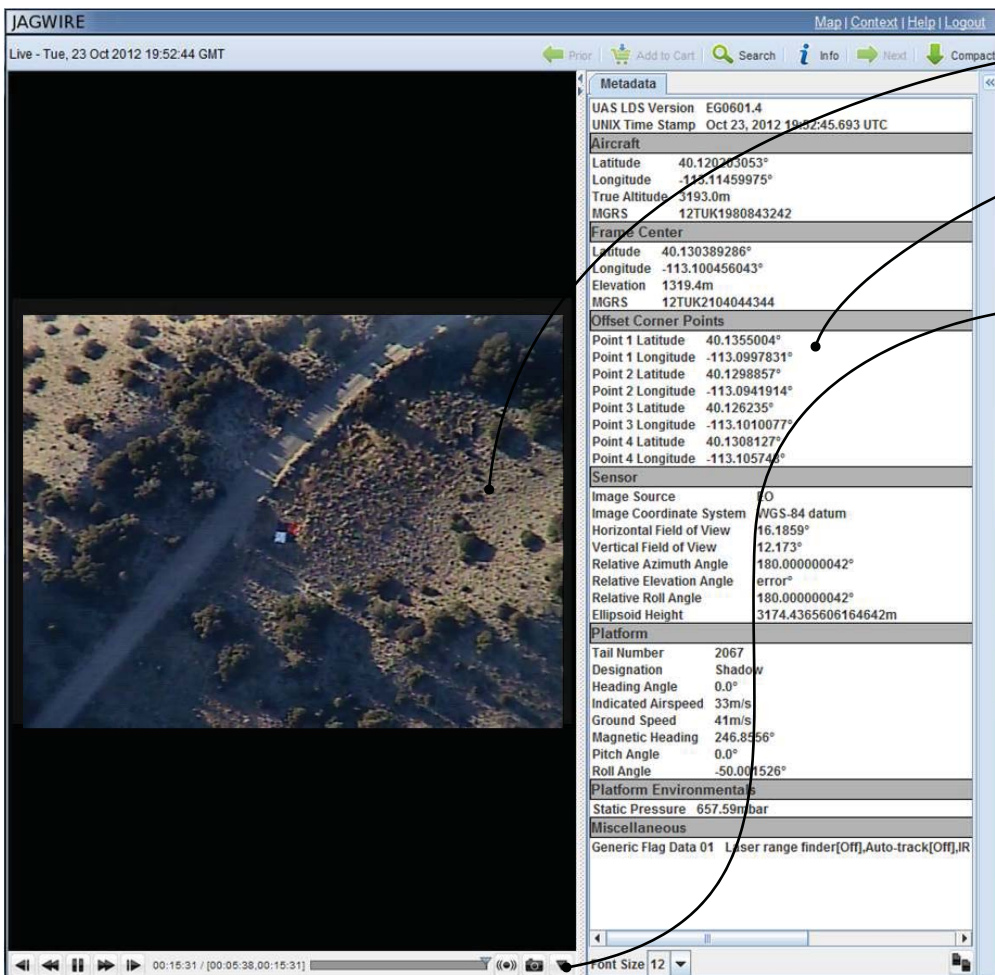
Aircraft Icon and Sensor Footprint

Planned Collection Request

Collection Request Status Summary Dialog Box

Web-served AMPS-based situational awareness display provides live platform and sensor footprint positions, enables discovery and viewing of live FMV feeds and archived still imagery, and maps up-to-date airspace restrictions from TAIS.

Authorized users allocate and sequence pending RSTA tasks across available UAS platforms to enhance collection efficiency and UAS resource utilization. Enables enhanced interaction between UAS operators and consumers.



Full Motion Video (FMV) Window
Video is presented at native rate and transcoded in order to relieve disadvantaged networks

Improved Metadata, Including Geo-Registered Coordinates

Video Controls
Allow full control of playback (ff, rw, pause). Ability to create snapshot from FMV, output as NITF-compliant still image (with metadata)

Jagwire interface (MDARv3) is utilized when video products are requested from the SA/COP view. Improved (geo-registered) coordinates are provided both in the full motion video view and in still images (NITF format) which may be accessed and created from the Jagwire session.

Geo-registered RSTA products ensure the correct data is gathered for a given service request and that the product provided is prepared for easy search, analysis, tracking, fusion, and targeting.

Searches for live or archived RSTA products provide results across all connected Remote Ingest Nodes via STANAG 4559 federation of archived data.

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**Project Manager
UAS Project Office
(SFAE-AV-UAS)
Redstone Arsenal, Alabama 35898**

