

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN



Ground Station, Operational Intelligence (OGS): AN/TYQ-224

*Common, Centralized PED for
Multi-INT Airborne Sensors
on the DCGS-A Enterprise*

OGS (formally known as the Surveillance Information Processing Center or SIPC) integrates existing, proven fielded systems and capabilities into a single readily deployable S-280 shelter, forming the basis of a common multi-INT Processing, Exploitation, and Dissemination (PED) solution that supports the wide diversity of current and future U.S. Army Airborne ISR platforms. OGS is based on COTS hardware and leverages the Guardrail Ground Baseline (GGB) Program of Record for the shelter, infrastructure, and baseline SIGINT PED. OGS additionally incorporates the SKYLINX/CIB for Air Force tactical imagery from the U2 and Global Hawk platforms, the VADER Exploitation Ground System (VEGS) for VADER platform radar processing, the MOVINT COMMS Suite for AF Joint Stars

MTI processing, the APIX suite for the MIT/Lincoln Labs WASS sensor on Constant Hawk, along with DCGS v3.1.6 for multi-INT toolsets, databases, and interfaces. The AMDAS subsystem from the Army's Tactical Exploitation System (TES) is planned to be added in a future OGS release and the OGS is targeted to replace the Army Corps-level TES. The OGS is a joint program initiated in early 2010 by PM DCGS-A and INSCOM. There are three OGS systems now operating in OEF with reach-back PED outside of OEF.

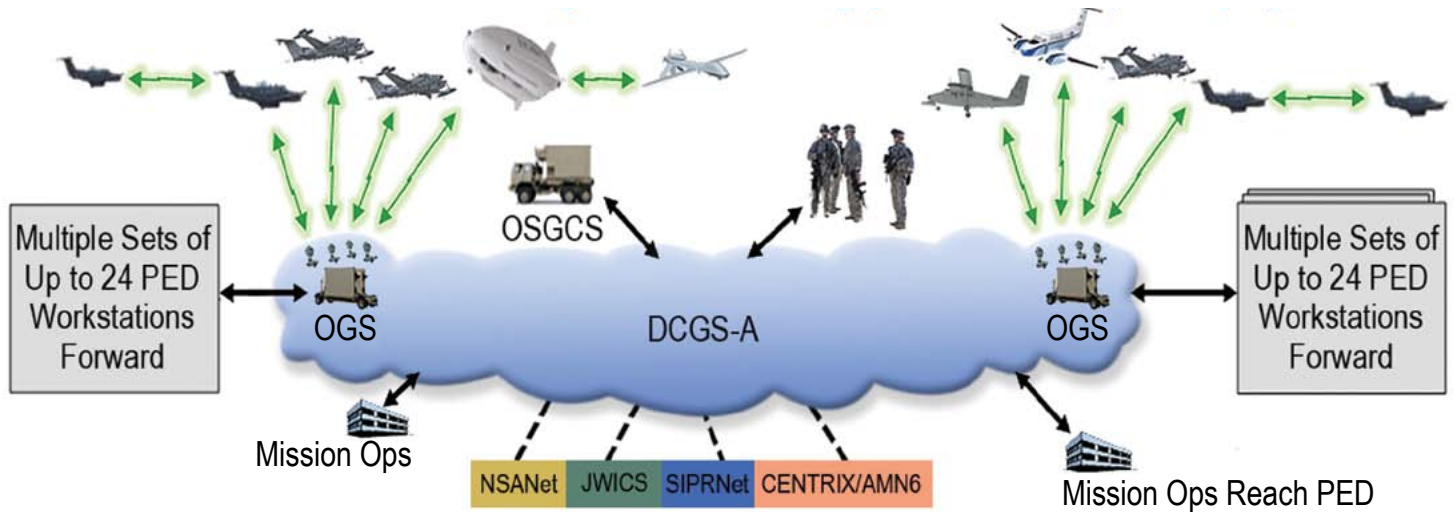
INSCOM and PM-DCGS-A have led the design and development of OGS since its inception with integration and software development performed at Northrop Grumman's Airborne ISR facilities in Sacramento, California. The

OGS represents a continuation of work that Northrop Grumman has been performing for INSCOM, PM ARES and DCGS-A including enhanced visualization and analytic capability updates of GGB for Guardrail's RC-12X systems.

OGS Solves the Challenges of PED Proliferation

Commensurate with mission needs, PED solutions for U.S. Army Airborne ISR assets have proliferated across all theaters. This has led to interoperability, sustainment, and cost challenges and inefficiencies as overall AISR capabilities have increased significantly. OGS began to address these problems by migrating to new processing paradigms advocated for SIGINT and IMINT by government agencies. These paradigms and capabilities are incorporated within the ground

OGS delivers multi-source intelligence to the warfighter, at the speed of operations



OGS eliminates the notion that “new sensors require a new PED solution.”

SIGINT capabilities, new GEO-INT capabilities (e.g. WAAS, FMV, VADER, etc) and DCGS-A v3.1.6 applications to produce the first true multi-INT node on the DCGS-A enterprise. Expanding on that multi-INT base, OGS will provide operational flexibility and agility to effectively address:

- Capabilities based rotations
- Stabilized ground processing
- Stabilized mission support
- Army aerial and national SIGINT
- National and theater IMINT
- Full UAS interoperability
- Actionable intelligence to the warfighter
- Improved force structure efficiency

OGS Brings Critical ISR Capabilities to DCGS-A

Recent missions and conflicts underscore the continuing need for versatility in Army ISR systems. OGS is a key enabler for improved agility, mobility and responsiveness, allowing the Army to respond quicker and to better manage unforeseen operational conditions. The OGS architecture complies with INSCOM/DCGS-A published standards for communications,

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OGS SIGINT

links, infrastructure, imagery, SIGINT messages, time, and more. OGS is based on a standardized flexible network that supports operators anywhere across the multi-network enterprise and provides extensible connectivity for multi-INT sensors. The architecture is compatible with and integrated into DCGS-A and enables straightforward addition of capabilities to DCGS-A. OGS is a central element of the Army’s DCGS objective to establish a fully integrated, highly adaptable net-centric enterprise.

One Ground Multi-INT PED To Support Multiple Platforms and Multiple DoD Initiatives

- Guardrail
- EMARSS
- Hunter UAV
- VADER

OGS has implemented modern, state-of-the-art user interfaces for multi-INT PED.



GOI IMINT

- TACOPS
- LEMV
- Grey Eagle
- Constant HAWK-A
- U-2/Global Hawk

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