



National System for Geospatial Intelligence

NSG Interoperability Action Team (NIAT) Introduction to the Federal Geographic Data Committee (FGDC) Coordination Group

19 July 2011

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Overall Classification of this briefing is **UNCLASSIFIED**

Agenda

- NIAT– The Big Picture
 - Mission and Activities
 - Place in the World of Standards
 - Sample work list
 - Assist and Validate Concept
 - Governance Support
 - Global Information Grid Technical Profile (GTP)
- Take Aways on the NIAT



NSG Interoperability Action Team



- **Program Support**
 - Work with Programs of Record (PoRs), Quick Reaction Capabilities (QRCs), and Joint Capability Technology Demonstrations (JCTDs)
- **Community Outreach**
 - Support various organizations across the DoD and IC
- **Document Review**
 - Review program documentation and requirements
- **Seal of Approval**
 - Validate a program's successful use of GEOINT standards at various milestones through its lifecycle
- **Standards Activities**
 - Support rewrite of DoD and JCS documents
 - Provide GEOINT standards expertise to program managers in the development of selected standards profiles
- **Ad Hoc**
 - Perform various proactive tasks which eventually mature and migrate into one of the activities above

The NIAT is an outreach, advisory and coordination activity working to improve GEOINT data and services interoperability across the NSG:

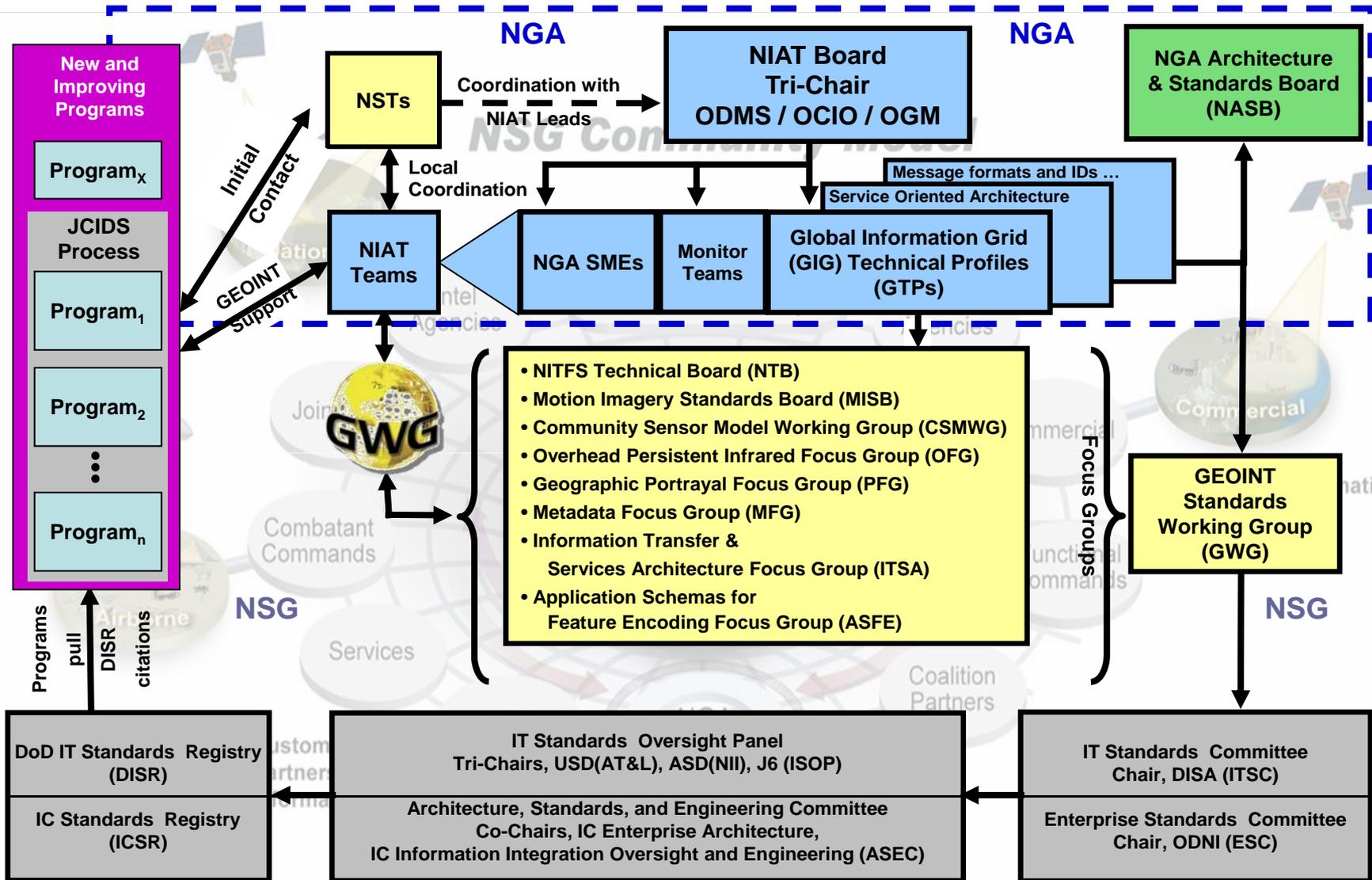
- Support ACAT I/II programs throughout the JCIDS process
- Support ACAT III & below, Quick Reaction Capabilities (QRCs), etc
- Support Joint Capability Technology Demonstrations; and QRCs
- Support in the GEOINT Standards process for data management and architecture

NIAT Leadership:

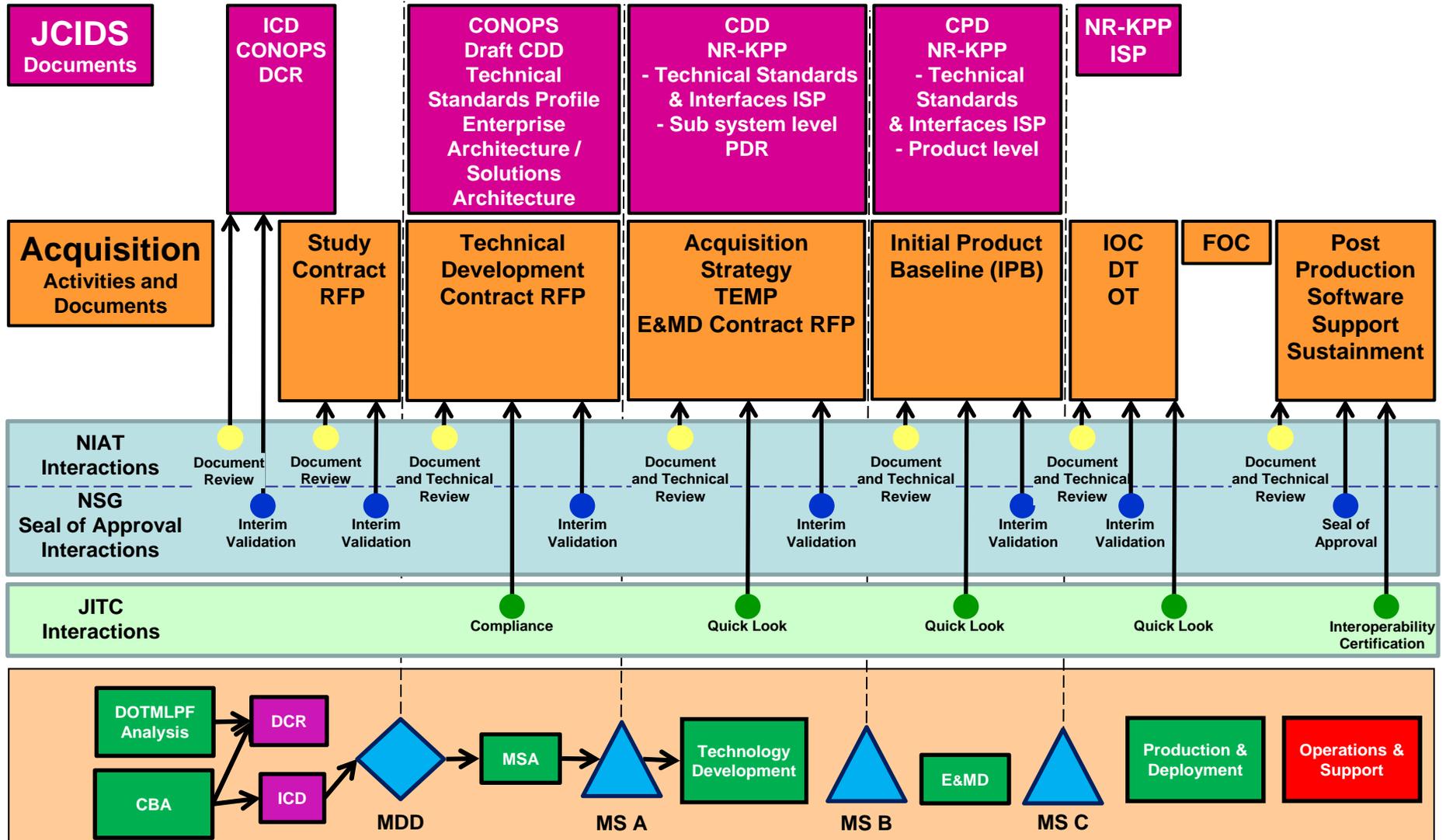
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NIAT in the DOD / IC World of Standards



NIAT Assist and Validate Interactions





National System for Geospatial Intelligence

NSG Seal of Approval

NSG SEAL Goal

- NSG Seal of Approval Mission:
 - Validate that standards compliant solutions for the capability based requirements requested have been delivered.
- The methodology:
 - NIAT assistance *provides Acquisition with knowledge on standards based implementations to specify standards as part of a Request for Proposal – think pre-engineering*
 - *SEAL validation provides proof that the requested capability based requirement has been satisfied*



Components At Our Disposal

T&E Authority	Software / System				Content Type		
PRT for accuracy, performance, ITF for interoper.	Interface Service Message Sets					Combination of Schemas and Data /IF Definitions	
JITC for Interoperability	GML and Sensor ML / XML Schemas						Schemas
JITC, OGC, et.al. for compliance	Format and Encoding (NITF, MPEG, JP2, GML/XML, SOAP, CSMWG)		Interface Standards (OGC, SMPTE, MISB)			Data / Encoding / Interface Definitions	
JITC, MISB, OGC for compliance	Capability Based Content Standards (TFDM, V Map, STANAG, MISP: FMV, EO, IR, LIDAR, RADAR, etc.)						Capability Based Product Content
NIAT for inclusion	NSG Feature Catalog		DDMS	IC-ISM		MMS	Data Model, Dictionary and Metadata
NIAT for inclusion	NFDD	FACS					
NIAT for inclusion	Abstract Standards (Select ISO 191xxx, OGC AS, SMPTE, Sensor Model Description (from FP))						
Not Testable							



Assembling the components

Insert graphic of Lego® Blocks in a pile and as an airplane



An Interoperability Tool

- What is the GTP?
 - Design document that provides the core set of technical functions and / or standards required to implement a needed capability
 - Found on GIG Technical Guidance Federation (GTG-F) website
 - GTG-F is DISA entry point for users to the MDR, DARS, EADS, EISP, etc., GWG Registry for us
- A GEOINT GTP will provide standards, profiles, schemas, encodings / formats, test materials, and architectural information to design and implement GEOINT capabilities



Merger of Governance and Assistance

- CJCSI 6212.01E, Interoperability and Supportability of IT and NSS, version F is on the street for 0-6 staffing
 - Defines JITC Interoperability Certification
- Global Information Grid (GIG) Technical Profile (GTP) and Net Ready Key Performance Parameter from 6212.01F are critical to NIAT operations
- CENTCOM Regulation 25-200 mandates Interoperability Certification from JITC



Take Aways on the NIAT

- NIAT assistance has been well received
 - The NIAT adds value to the acquisition process
 - Nobody wants to fail, but moving to Standards is challenging if you don't know how to best use them
- Bottom Line
 - NIAT assistance allows acquisition officials to clearly delineate what they want to buy
 - SEAL validation allows acquisition officials to clearly identify when they have received it

Transform those Lego[®] Blocks into a working system

