

Geospatial Governance Framework

Leveraging the DoD Business Enterprise Architecture

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The DoD Business Enterprise Architecture

- The BEA is the enterprise architecture for the DoD Business Mission Area (BMA) and defines the DoD business transformation priorities, the business capabilities required to support those priorities, and the combinations of enterprise systems and initiatives that enable those capabilities.
- High-level architecture elements inserted in the BEA by the Defense Installations Spatial Data Infrastructure (DISDI) Program will guide and constrain the implementation of interoperable, geo-enabled defense business systems.
- BEA-compliant Component architectures and capabilities will support many operational requirements such as joint basing, by providing a federated framework for efficient, secure use of geodata and services to support the full spectrum of defense business missions.



The Framework

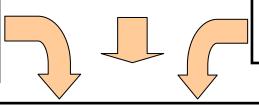


IGI&S Policy and Guidance

Acquisition, Technology and Logistics

GEOINT Functional Management EO 12333 EO 13470 DoDD 5105.6

Enterprise Transition Plan (ETP) Real Property Accountability (RPILM CBMA)



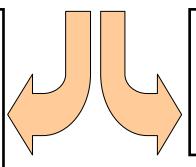
Net-Centric Data Strategy

DoDD 8320.02 DoDD 8320.02-G

DUSD (I&E)
IGI&S Guidance Memo

Plans & Strategies

- Maintain existing IGI&S investments.
- Conform with BMA requirements.
- Expand existing data sets to map every asset in the DoD Real Property Asset Database.
- Establish Net-centric solutions for linking IGI&S mapping, discovery, and data sharing capabilities to the Department level.
- Establish data proponency guidance.
- Establish a capability in the BEA to enable netcentric connections of IGI&S capabilities.
- Harmonize IGI&S standards and architecture with the National System for GEOINT (NSG).

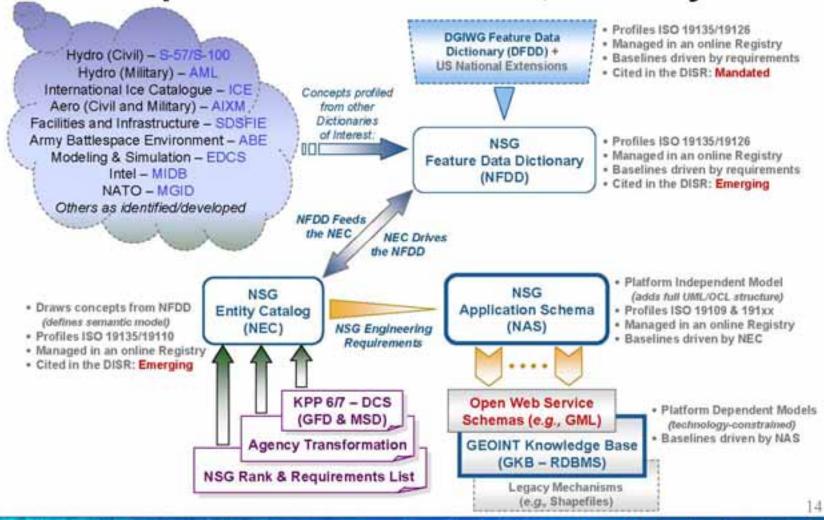


Standards & Implementation

- SDSFIE 3.0
- DGMP 1.0
- Implementation Plan

more TBP in 2010

Concept Flow: Into the NEC, and Beyond

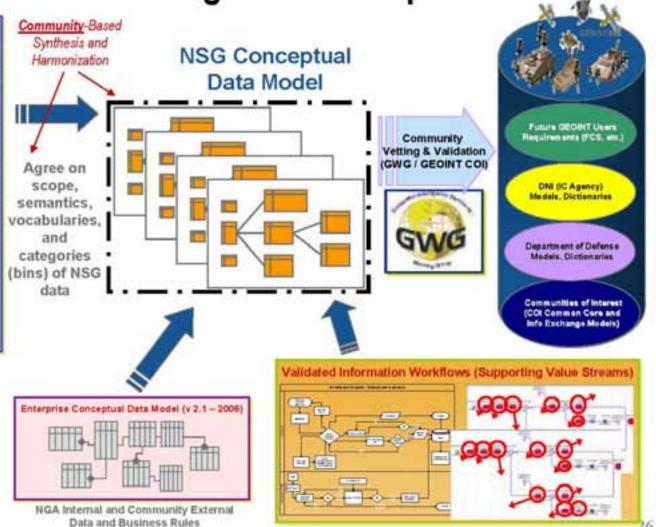


Harmonization: Building NSG Conceptual Model



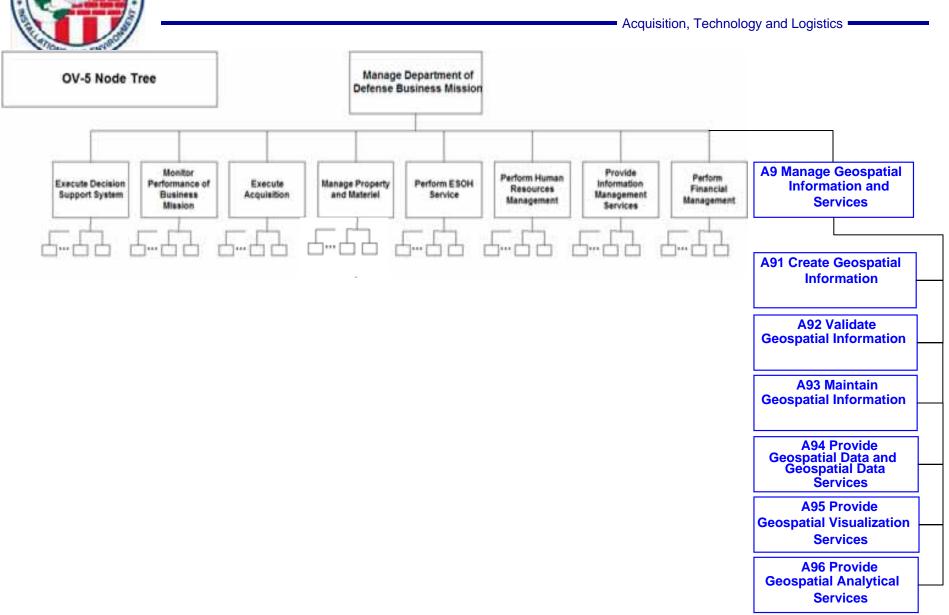
NSG Entity Catalog: Initially Features Based*. Interoperability / agility needs require expanding to capture "all-things GEOINT" (Define GEOINT data entities across NSG)

> *Geofeatures, Geonames, Maritime, Aeronautical, Installations





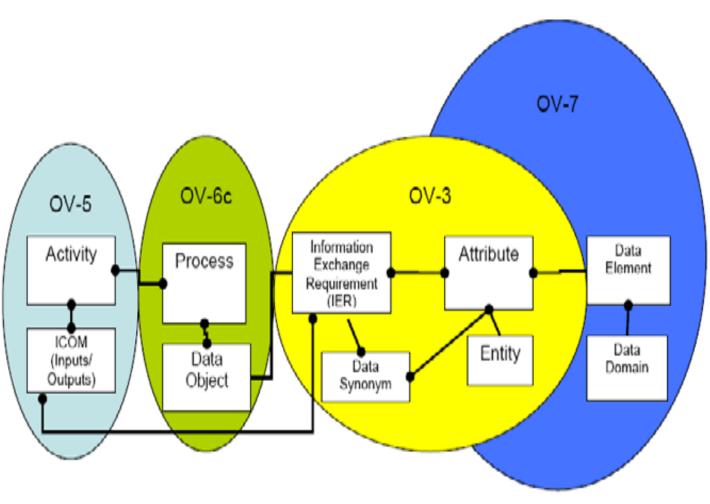
BEA 7.0 GI&S Node





Relationship between BEA products

Acquisition, Technology and Logistics



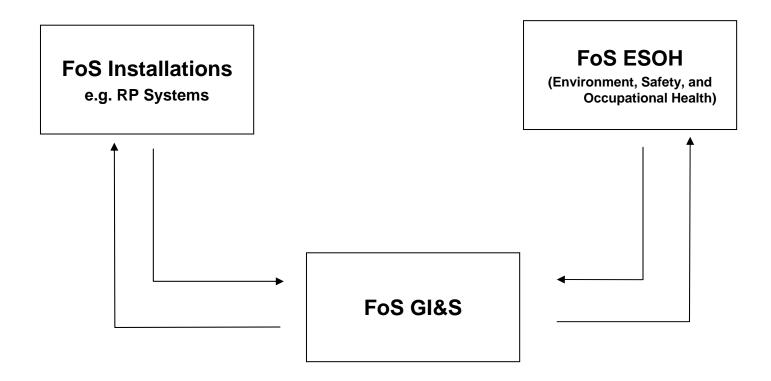
Source: BTA - Architecture Product Guide



Family of Systems GI&S

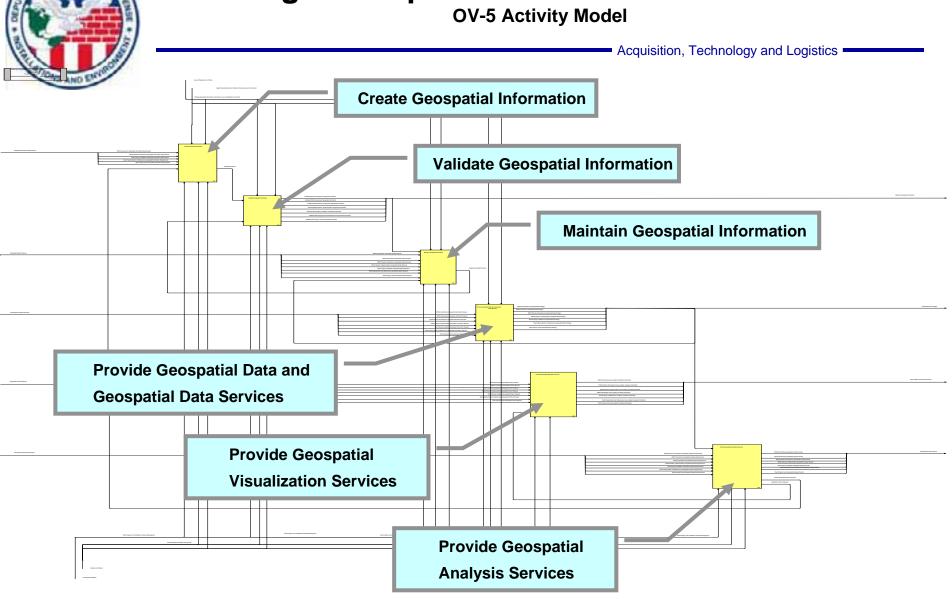
Acquisition, Technology and Logistics

 BEA Term that combines DoD geospatial information and services (GI&S) capabilities





Manage Geospatial Information and Services





Implementation: making use of The Framework



System Review and Portfolio Management

- Investment Review Board
- IGI&S Family of Systems Special Interest
- BEA compliance
- Standards (ISO, OGC, NSG, SDSFIE, etc.)
- DoDD 8320.02 Net-Centric Implementation:
 - Understandability, Accessibility, Availability
- The key question of the GI&S functional review: Are the fundamental concepts of "location" implemented correctly?



A Draft CONOPS for DISDI

USERS		 Access Consistent Symbology/Portrayal Standard Data and Services Adaptable
Enterprise Enablers	 DISA Net-Centric Enterprise Services GVS Enterprise Services 	 Information Assurance Security Services Federated Search Discovery Mediation Integration
Providers	IGI&S ProgramsDISDINGADHSOthers	 IGI&S Distributed Services SDSFIE Standardization Metadata Federation





A Draft CONOPS for DISDI (2 of 2)

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Requirements

User Access

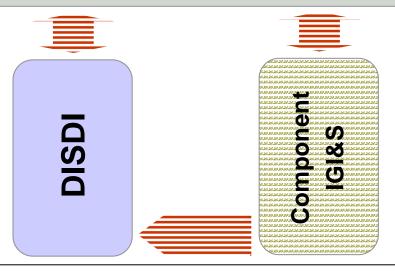
Communities of Interest Service Oriented
Architecture Framework

Enterprise Service Bus



DoD Discovery Catalog, DoD Metadata Registry, DoD Service Registry

**NEW: Geospatial Visualization Enterprise Services (TBP)



DoD Agencies

Other Federal Agencies

Homeland Defense



BEA Future Focus for IGI&S Community

- Shift from "architecting" to <u>implementing</u> BEA blueprint
 - Reviews of systems BEA alignment
 - Probable addition of all GIS-capable systems as "special interest" systems under RPILM IRB
- Further decomposition of the OV-5 activities will have implementation benefits:
 - Define components of portfolio management
 - Target for IRB system reviews, capabilities development
 - Define "The Map" and IGI&S products (generic)



SDI: How to Geo-enable the Enterprise

Acquisition, Technology and Logistics • **Geospatial Tradecraft Know-how IGI&S Data Requirements Professional Development** - Strategic Installation Picture Ω 18E Basemap - Common Installation Picture **BEA 7.0 Business** Geospatial **Feature Data** 0 **Processes** Model OV-7 Geo-enabled and Manage GI&S information **Activity Model Mission Area** OV-5 a **Data SDSFIE** Enterprise **DGMP** 0 Context **Geospatial Visualization Enterprise Services** (1) **IGI&S Policy** (NGA and DISA)







Questions?













Web site and DISDI Portal: www.acq.osd.mil/ie/bei/disdi.htm

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