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ACQUISITION,  
TECHNOLOGY  
AND LOGISTICS

MEMORANDUM FOR ASSISTANT SECRETARY OF THE ARMY  
(INSTALLATIONS AND ENVIRONMENT)  
ASSISTANT SECRETARY OF THE NAVY  
(INSTALLATIONS AND ENVIRONMENT)  
ASSISTANT SECRETARY OF THE AIR FORCE  
(INSTALLATIONS, ENVIRONMENT AND  
LOGISTICS)  
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SUBJECT: Installation Geospatial Information and Services Guidance

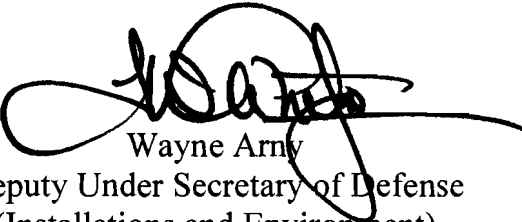
Installation Geospatial Information and Services (IGI&S) have become an important capability, integral to nearly all aspects of Real Property and Installation Lifecycle Management (RPILM). The IGI&S programs have successfully demonstrated that they are an effective resource for improving management of installations, environment, safety, and occupational health in the Department. At the March 25, 2009, meeting of the Installations and Environment Domain Governance Board, participants agreed that the IGI&S programs have now reached a point of maturity requiring greater coordination and unity of effort, as described in the attached guidance.

This guidance defines the IGI&S capability, and directs DoD Components to take steps which will ensure their IGI&S programs conform to the Department's Business Enterprise Architecture and other applicable Federal and DoD standards. It clarifies how strategies and standards for IGI&S will be coordinated across DoD, including harmonization with the National System for Geospatial Intelligence (NSG). The guidance also requires that IGI&S data conform to the Spatial Data Standards for Facilities, Infrastructure, and Environment, and have



appropriate metadata. The initial implementation goal of the IGI&S capability shall be to establish a baseline authoritative geospatial feature dataset supporting real property accountability.

My point of contact for IGI&S is Mr. David LaBranche, 703-604-5764, David.LaBranche@osd.mil.



Wayne Army  
Deputy Under Secretary of Defense  
(Installations and Environment)

Attachments:  
As stated

**DEPARTMENT OF DEFENSE**

**INITIAL GUIDANCE FOR**

**INSTALLATION GEOSPATIAL INFORMATION AND SERVICES**

**CAPABILITY IMPLEMENTATION**

- References:
- (a) Executive Order 12906, "Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure," April 1994
  - (b) Executive Order 12333, "United States Intelligence Activities," December 4, 1981, as amended
  - (c) Joint Publication 1-02, "Department of Defense Dictionary of Military and Associated Terms," August 2008
  - (d) DoD Directive 5105.60, "National Imagery and Mapping Agency (NIMA)," October 11, 1996
  - (e) through (m), see enclosure 1

1. PURPOSE

- a. Establish roles and responsibilities for governance of the Installation Geospatial Information and Services (IGI&S) capability.
- b. Ensure all IGI&S investments are created principally for and conformal with established requirements of the Real Property and Installation Lifecycle Management (RPILM) core business mission. Nothing in this guidance shall be construed as limiting the ability of any organization to provide support to organizations in other core business mission areas, the warfighter, or intelligence mission areas.
- c. Establish the goal of implementing net-centric solutions to link IGI&S capabilities with RPILM business systems, and with other authorized federal users through the DoD enterprise architecture.
- d. Establish guidelines for implementing a lifecycle management strategy for IGI&S to address:
  - (1) Maintenance of existing IGI&S data.
  - (2) Collection and quality parameters for new IGI&S data.
  - (3) Staffing and resourcing of IGI&S programs.

- e. Encourage the Components to focus planned investments in IGI&S on supporting current enterprise priorities, e.g., geospatially enabling the entire Real Property Asset Database.

## 2. GUIDANCE

- a. The Installations and Environment Domain Governance Board (I&E DGB) shall continue to exercise oversight and direction of IGI&S investments through the Defense Installation Spatial Data Infrastructure Group (DISDIG), as described in reference (m).
- b. The DISDIG will review the coordinated strategies and implementation plans described in this guidance, then forward them to the I&E DGB for approval.
- c. IGI&S programs will be technically reviewed, as appropriate, by the RPILM Investment Review Board to ensure conformance with enterprise initiatives, capabilities, and standards. Technical reviews will include DoD Components' plans, investments, and business systems that are part of, or rely significantly on, IGI&S. Reviews will ensure use of authoritative data sources and prevention of duplicate IGI&S capabilities.
- d. All IGI&S data shall conform to the Spatial Data Standard for Facilities, Infrastructure, and Environment (SDSFIE). All IGI&S data shall have appropriate metadata, conformal with the DISDI Geospatial Metadata Profile (DGMP). The data and metadata shall conform to the current version of the respective standards; migration of data or metadata from old to new versions shall be implemented according to timelines proposed by the Components, reviewed by the DISDIG, and approved by the I&E DGB.
- e. The DISDIG shall ensure that IGI&S standards are fully coordinated with the GEOINT Functional Manager. IGI&S standards should harmonize the geospatial concepts, to the greatest extent practicable, with the components of the GEOINT Structure Implementation Profile (GSIP) and should be integrated with the GSIP where beneficial.
- f. The initial implementation goal of the IGI&S capability shall be to establish a baseline authoritative geospatial feature dataset supporting real property accountability. Further guidance shall be established by the Deputy Under Secretary of Defense (Installations and Environment) (DUSD(I&E)) as to the storage, handling, and classification of such data pursuant to reference (k).

## 3. RESPONSIBILITIES

- a. The Deputy Under Secretary of Defense (Installations & Environment) shall:

- (1) Develop further policy and direction to implement the objectives of this guidance.
  - (2) Assist the Components in developing the processes and implementation plans required by paragraphs 3.d.2 through 3.d.4.
- b. The Director, Business Enterprise Integration shall:
- (1) Establish a capability in the DoD Business Enterprise Architecture to enable net-centric connections across all Component IGI&S capabilities.
  - (2) Designate the DISDI program manager (DISDI PM).
- c. The DISDI PM shall:
- (1) Chair the DISDIG and assist the Components with implementing the goals of this guidance.
  - (2) Provide oversight, policy, and guidance of geospatial information and services within ODUSD(I&E).
  - (3) Coordinate with the GEOINT Functional Manager on behalf of DUSD(I&E) in accordance with reference (d).
  - (4) Develop a concept of operations (CONOPS) for the DISDI Portal, to be reviewed by the DISDIG and approved by the I&E DGB.
- d. The Assistant Secretaries of the Military Departments for Installations and Environment shall:
- (1) Develop plans for maintaining existing geospatial investments (personnel, data, and systems), in accordance with this guidance.
  - (2) Develop processes that ensure all IGI&S investments, especially data, are created principally for and conformal with established Business Mission Area requirements.
  - (3) Develop a strategy for expanding existing data sets to create a geospatial feature for every asset in the DoD Real Property Assets Database.
  - (4) Establish net-centric solutions for linking IGI&S mapping, discovery, and data sharing capabilities at the Component level to the Department level (the DISDI Portal).

- (5) Establish proponenty guidance for geospatial data. The intent of this guidance shall be to ensure functional proponents take primary responsibility for defining geospatial data requirements, to include data collection and data quality guidelines.

E1. ENCLOSURE 1

REFERENCES, continued

- (e) DoD Directive 8000.1, "Management of DoD Information Resources and Information Technology," March 20, 2002
- (f) DoD Directive 8115.01, "Information Technology Portfolio Management," October 10, 2005
- (g) DoD Directive 8320.02, "Data Sharing in a Net-Centric Department of Defense," December 2004
- (h) DoD 8320.02 G , "Guidance for Implementing Net-Centric Data Sharing," April 12, 2006
- (i) DoD Directive 8320.03, "Unique Identification (UID) Standards For A Net-Centric Department of Defense," March 2007
- (j) DoD Directive 8500.01E, "Information Assurance," October 24, 2007
- (k) DoD Instruction 5200.01, "DoD Information Security Program and Protection of Sensitive Compartmented Information," October 9, 2008
- (l) DoD Instruction, 5210.52, "Security Classification of Airborne Sensor Imagery and Imaging Systems," May 18, 1989
- (m) DoD Instruction 4165.14, "Real Property Inventory and Forecasting," March 31, 2006
- (n) Deputy Under Secretary of Defense (Installations & Environment) Memorandum, "Establishment of the Defense Installation Spatial Data Infrastructure Group," March 21, 2007

## GLOSSARY

Geospatial Intelligence (GEOINT). The exploitation and analysis of imagery and geospatial information to describe, assess, and visually depict physical features and geographically referenced activities on the Earth. Geospatial intelligence consists of imagery, imagery intelligence, and geospatial information.

Geospatial Information and Services (GI&S). A capability consisting of the collection, information extraction, storage, dissemination, and exploitation of geodetic, geomagnetic, imagery (both commercial and national sources), gravimetric, aeronautical, topographic, hydrographic, littoral, cultural, and toponymic data accurately referenced to a precise location on the Earth's surface. Geospatial services include tools that enable users to access and manipulate data, and also include instruction, training, laboratory support, and guidance for the use of geospatial data.

Installation Geospatial Information and Services (IGI&S). The subset of GI&S activities that enhance the DoD Business Mission Area and support DoD business transformation by addressing business enterprise priorities as defined in the DoD Business Enterprise Architecture. IGI&S are considered complimentary to but different from GEOINT, and shall be managed as DoD information resources and information technology as defined in references (a), (e), (f), and (g).

Geospatially Enable (Geo-enable). To apply geospatial capabilities to a business process in order to establish the authoritative spatial location of business data, and enable contextual spatial analysis. Business data which represent real world phenomena are not complete without a geospatially correct representation. The DoD Business Enterprise Architecture contains the correct references necessary to structure geospatial data (representations or "features").

Geospatial Feature. As defined in the DoD Business Enterprise Architecture (BEA), "An abstraction of a real world phenomenon that physically places the phenomenon via an implicit or explicit reference to a specific location relative to the Earth." The BEA entity called "geospatial feature" can be expressed as a point, line or polygon, or even textually (e.g. address) provided that it conforms to pertinent standards referenced in the BEA.