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**INFORMATION SHARING ENVIRONMENT GUIDANCE (ISE-G)**  
**INFORMATION SHARING ENVIRONMENT (ISE)**  
**PROFILE AND ARCHITECTURE IMPLEMENTATION STRATEGY (PAIS)**  
**VERSION 2.0**

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1. Authority. The Homeland Security Act of 2002, as amended; The Intelligence Reform and Terrorism Prevention Act of 2004 (IRTPA), as amended; Presidential Memorandum dated April 10, 2007 (Assignment of Functions Relating to the Information Sharing Environment); Presidential Memorandum dated December 16, 2005 (Guidelines and Requirements in Support of the Information Sharing Environment); Director of National Intelligence (DNI) memorandum dated May 2, 2007 (Program Manager's Responsibilities); Executive Order 13388; and other applicable provisions of law, regulation, or policy.

2. Purpose. This *ISE PAIS* issuance provides guidance to ISE participants for developing their information sharing segment architecture and trusted repository for information that will be shared in the ISE (ISE Shared Space). A companion document to the *ISE EAF*, this *ISE PAIS* supports efforts to build upon and leverage existing policies, business processes, and technologies in use by Federal, State, local and tribal governments that support information sharing across the ISE community in a manner that fully protects the legal rights of all United States persons. This *ISE PAIS* provides guidance to ISE participants as they seek to implement information sharing capabilities, connect to other ISE participants, expose data, and access ISE data and services.

This *ISE PAIS Version 2.0* supersedes *ISE PAIS Version 1.0* issued May 2008. This newest version of the *ISE PAIS* addresses key requirements of section 1016 of the IRTPA and provides more specific guidance for Federal Chief Information Officers, Chief Technology Officers, Chief Architects, and network managers involved in integrating their information sharing capabilities into the ISE.

3. Applicability. This *ISE PAIS* is applicable to all ISE communities: defense, foreign affairs, homeland security, intelligence, and law enforcement; the Information Sharing Council (ISC) members and their departments and agencies; and departments or agencies that possess or use ISE mission business-related information, operate a system that supports or interfaces to the ISE, or otherwise participate (or expect to participate) in the ISE, as specified in Section 1016(i) of the IRTPA, as amended.

4. References. *ISE Implementation Plan*, November 2006; *ISE Enterprise Architecture Framework (EAF)*, Version 2.0, September 2008; *Initial Privacy and Civil Liberties Analysis for the Information Sharing Environment*, Version 1.0, September 2008; *ISE-AM-300: Common Terrorism Information Standards Program*, 31 October 2007; *Common Terrorism Information Sharing Standards Program Manual*, Version 1.0, October 2007; *National Strategy for*

*Information Sharing*, October 2007; *ISE Profile and Architecture Implementation Strategy*, Version 1.0, May 2008; National Information Exchange Model, *Concept of Operations*, Version 0.5, 9 January 2007; 28 Code of Federal Regulations (CFR) Part 23; Office of Management and Budget (OMB), *Federal Transition Framework Catalog of Cross Agency Initiatives*, Version 1.0, December 2006; *Presidential Memorandum to Executive Departments and Agencies*, 9 May 2008, (Designation and Sharing of Controlled Unclassified Information); *Nationwide Suspicious Activity Reporting Initiative: Concept of Operations*, Version 1.0, December 2008; *ISE Suspicious Activity Reporting Evaluation Environment Segment Architecture*, December 2008.

## 5. Definitions.

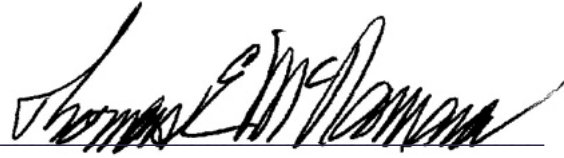
- a. Federal Segment Architecture Methodology (FSAM) - a step-by-step process for developing and using segment architectures that was developed by distilling proven best practices from across Federal agencies.
- b. ISE Enterprise Architecture Framework (EAF) - presents a logical structure of ISE business processes, information flows, and relationships, services, and high-level data packet descriptions and exchange relationships.
- c. ISE Implementation Agent - refers to an organization responsible for providing infrastructure and services in the ISE Core Segment.
- d. ISE participant - any Federal, State, local, or tribal government organization, private sector entity, or foreign government organization (to include employees) that participates in the ISE.
- e. ISE Profile and Architecture Implementation Strategy (PAIS) - a guide for ISE participants that describes what each should do to connect to the ISE, expose data to the ISE, build their ISE Shared Space, and access data and services provided by the ISE.
- f. ISE Shared Space - standardizes terrorism information, as defined through the Common Terrorism Information Sharing Standards (CTISS) and is made available by one ISE participant to others, as appropriate. Additionally, ISE participants may create or use an ISE Shared Space to make their services and data accessible, as appropriate, to other ISE participants.
- g. Segment Architecture - the business-driven approach of logically documenting the set of business and information requirements, outcomes, and constraints that lay the foundation for building executable operational solutions (or systems) that meet or exceed mission performance goals for a particular line of business (e.g., Information Sharing) and are derived from a concept of operations.
- h. Solution Architecture - the structured, technical documents, derived from Segment Architectures, which are scoped to describe the particular functions or processes to be implemented; identify methods for achieving operational outcomes; and define specific IT assets, applications, and components for procurement and implementation. Solution Architectures do not specifically identify vendors or specific vendor items as these are generally identified in subsequent specification documents and/or procurement orders.

6. Guidance. This *ISE PAIS* is established to assist in coordinating activities and development of individual ISE participants' enterprise and Information Sharing Segment Architectures to drive the planning and management of those businesses and information resources that define the nationwide ISE capability. This *ISE PAIS* provides greater detail than the *Federal Enterprise Architecture Framework (FEAF)*, but does not address details at the operational level, which is appropriate for individual departments and agencies to include in enterprise architectures, and especially Information Sharing Segment Architectures.

7. Responsibilities.

- a. The Program Manager, Information Sharing Environment (PM-ISE), in consultation with the Information Sharing Council (ISC), shall:
  - 1) Work with ISE participants, through the ISC Chief Architects' Roundtable, to publish, maintain, administer, and manage use of the *ISE PAIS*; and
  - 2) Monitor the implementation and use of the *ISE PAIS* and subsequent updates in alignment with Federal Enterprise Architecture (FEA) assessment guidance.
- b. Each ISE participant shall:
  - 1) Incorporate *ISE PAIS* attributes into their information systems to interface with the ISE, and any subsequent implementation guidance of it into budget activities associated with relevant current (operational) mission specific programs, systems, or initiatives (e.g., operations and maintenance {O&M} or enhancements);
  - 2) Incorporate the *ISE PAIS* and any subsequent implementation guidance into budget activities associated with future or new development efforts for relevant mission-specific systems or initiatives (e.g., development, modernization, or enhancement {DME});
  - 3) Incorporate the *ISE PAIS* attributes into agencies transition planning strategy for enterprise architectures or Information Sharing Segment Architectures development and implementation;
  - 4) Abide by ISE performance goals and strategies while implementing the *ISE PAIS*; and
  - 5) Abide by ISE privacy and civil liberties policies while implementing the *ISE PAIS*.

8. Effective Date and Expiration. This ISE Guidance is effective immediately and will remain in effect until superseded or cancelled.

A handwritten signature in black ink, appearing to read "Thomas E. McNamara", written over a horizontal line.

Thomas E. McNamara  
Program Manager for the  
Information Sharing Environment

Date: June 24, 2009

Attachment(s):

ISE PAIS Version 2.0