The Federal Architect

CITIZEN-CENTERED. RESULTS ORIENTED GOVERNMENT

NIEM: A Leading Example of Service Architecture

NIEM, the National Information Exchange Model, is a partnership of the U.S. Department of Justice and the Department of Homeland Security. It is designed to support enterprise-wide information standards exchange processes that can enable crossagency collaboration.

Results

The NIEM exchange development methodology results in a common semantic understanding among participating organizations and data formatted in a semantically consistent manner. Agencies are challenged with responding with responding increasing demands for their services and spending valuable manually re-keying data into multiple systems. An example is found in Orange County, Florida where an estimated \$7 Million per year was saved by eliminating redundant information



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Practical Guide for Federal SOA

The world is changing at an accelerating pace. In some cases, this benefits society: in other cases, it increases the threat. The federal government is characterized, for the most part, by a variety of inhibitors to change, including vertical organizational orientation; bureaucratic budgetary cycles that do not optimize for efficiency, effectiveness, or agility; and very large and diverse current technology base. In particular, the installed base of federal information technology (IT) acts as an "anchor" to slow down (at best) or prevent (at worst) needed changes in government processes and ultimately mission outcomes.

Fortunately, a new paradigm has evolved that can be applied to address this problem - service oriented architecture, or SOA. SOA holds the promise to help agencies reconfigure themselves and their business processes rapidly, as well as modifying their IT assets more easily and effectively to support the reconfigured organization. Improved business agility - through and reuse of infrastructure, services, information, and solutions - is a growing requirement in the federal government today and will be increasingly critical in the future.

The net results of broad-based adoption and advancing of SOA capability throughout the federal government will enable:

- Improved government responsiveness
- Simplified delivery of enhanced government services
- More efficient government
- Information sharing
- Transparency, security, and resilience

Vision: Improving Services from Federal Agencies

The Practical Guide is organized around three perspectives of service orientation that together enable the effective adoption of SOA into a federal organization. For each of these perspectives, we characterize the objectives of a mature SOA capability. These are the objectives that each federal organization adopting SOA should strive to achieve.

- Service Oriented Enterprise (SOE)
- Service Oriented Architecture (SOA)
- Service Oriented Infrastructure (SOI)

The PGFSOA can be found on the Wiki by clicking here.



E-GOV Federal Enterprise Architecture

Enterprise Architecture Annual Assessment Results

In March 2008, OMB assessed 27 criteria in the OMB EA Assessment Framework v2.2.

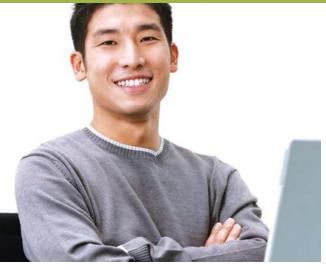
OMB rated each agency in terms of completion of their EA; use of their EA; and the results delivered. OMB uses these annual EA assessments to ensure agencies are maturing, integrating and getting value from their EA activities

continues to emphasize seament architectures approach focusing on core mission or business areas, or specific crosscutting enterprise services such as information sharing.

In this year's assessment, 25 of 27 (93%) agencies achieved a green rating on their EAs. This is a 19% increase from last assessment, where only 20 of 27 (74%) agencies achieved a green rating.

What's New?

Download the Quick Guide.



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Group (FSAWG) to bring together

deliver results to their respective

organizations. The FSAWG was

formed in January 2008 as a sub-

Infrastructure Committee (AIC) of

goal of FSAWG is to "leverage

existing best practices to develop a

methodology and training materials

that may be used as guidance for

developing and using segment

Chief

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meet

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Architecture and

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Council. The

requirements from the Office of

Management and Budget (OMB) to

requirements has spawned an

array of innovative practices within

the Federal Agencies

across

assessed each year.

architectures." The FSAWG will be based on the FEA Practice Guidance and will strengthen the linkages between segment architectures and information security and privacy, capital planning and investment control

FSAWG about collaboration amongst the architecture community and

assessed agencies are participating on a volunteer basis. Volunteers were solicited from through the Chief

Architects Forum. The following agencies are participating:

- · Office of Management and Budget (OMB)
- Department of Defense (DoD)
- · Department of the Interior
- Department of Justice (DOJ)
- Department of Labor (DOL)
- Department of Transportation
- Program Manager, Information Sharing Environment (PM-ISE)

Segment Architecture Methodology

Agencies Collaborating via the **FAWSG** to Develop Methodology for Cultivating and Using Segment Architecture

(CPIC), and solution architecture.

"...efficiently deliver results Architecture."

through Segment

- Environmental Protection Agency (EPA)
- Housing and Urban Development (HUD)
- Office of Personnel Management's Human Resources Line of Business (HRLoB)
- Department of the Treasury
- Department of Homeland Security (DHS)

Best practice analytical techniques submitted by participating agencies to date have been categorized for ease in potential reuse in the forthcoming methodology.

FSAWG deliverables will include an index of researched practices and methods. quidance document and website for the methodology; and training and outreach materials to be used openly across the Federal sector. Look for the new methodology and website this summer and future updates in The Federal Architect.

ENTERPRISE Define Undate strategic **Enterprise** drivers and Transition prioritize Strategy segments Analyze the Analyze the information Prioritize segment and Identify management Author the SEGMENT opportunities, synthesize the environment segment Segment set the scope, target executive and synthesize Architecture and define the business and sponsor and the target Blueprint and performance information conceptual core team Transition Plan architecture architecture solution requirements architecture Develop **Business** Case* SOLUTION **Define** Solution Architecture *Note: Business Case may exist at the Segment or Solution level

with the

IPv6

Status Update

The IPv6 Working Group of the Architecture and Infrastructure Committee (AIC), in partnership Industry Advisory Council (IAC) and the General Services Administration (GSA), is currently in the process of developing guidance for the next phase of Federal IPv6 Transition. The upcoming phase is a progression of the June 30, 2008 deadline requiring Agencies to upgrade their backbone networks to IPv6. This effort, headed by Peter Tseronis (Co-chair, Federal IPv6 Working Group), will address the:

- Future vision of IPv6 in Federal Government:
- IPv6 business value and performance objectives;
- Role of Enterprise Architecture; and
- Architectural and Infrastructure considerations;

Furthermore, the guidance will

The Working Group anticipates a Q1 FY09 release date, enabling Agencies to integrate IPv6

offer a high-level roadmap and milestones for achieving the IPv6

future vision.

planning into their Q2 FY09 Enterprise Architecture updates.

This Month's Enterprise Architecture Q&A

A: The Segment Architecture codes will consist of six digits. Each agency will select the first three digits and will register them with the OMB FEA PMO. Further details on the code registration process can be found on www.egov.gov under "FEA in the Budget" section. The link is also available



A: NIST has completed the IPv6 Profile (version 1) [NIST SP500-267] and it was released to the public in early September. In addition, the FAQ was released to accompany the Profile. The IPv6 FAQ and Profile are available



Professional Development

The Executive Office of the President offers selected Federal employees the opportunity to experience first hand the development of the federal government's Enterprise Architecture. For a complete description of the program, refer to Detailee Program (318).

Individuals interested in applying for the program should contact the FEA PMO at fea@omb.eop.gov.

Upcoming Events

Architecture and Infrastructure Committee (AIC)

Date: September 18, 2008

Time: 3:00 PM to 5:00 PM

Location: Ariel Rios Building - North (EPA)

1200 Pennsylvania Avenue NW Washington, DC 20004

AIC will meet in room 5020 of Ariel Rios North.

Directions: Take the Blue or Orange Line to Federal Triangle metro station – Go up three sets of

escalators. To your right is Ariel Rios North and to your left is Ariel Rios South.

ArchitecturePlus

Date: October 7, 2008

Time: 9:00 AM to 12:00 PM (Registration is from 8:30 AM to 9:00 AM)

http://semanticommunity.wik.is/Federal_Chief_Architects_Forum

Register: http://www.actgov.org/openregistration

Location: American Institute of Architects (AIA) Building

1735 New York Avenue NW; 2nd Floor Auditorium

Washington, DC 20006

Directions: Take the Blue or Orange Line to Farragut West - Take the 18th Street

Metro exit - walk toward the Mall on 18th Street.

Enterprise Architecture Conference

Date: September 9-10, 2008

Location: Ronald Reagan Building, Washington, DC

1300 Pennsylvania Avenue NW

Washington, DC 20004

(Conference presentations are available here).

Sign Up

Anyone wishing to participate in the Chief Architects Forum and/or ArchitecturePlus, or to be added to their membership lists, should contact Stephanie Powers at stephanie-sonnenfelt@sra.com or Ira Grossman at ira.grossman@dhs.gov

*E-GOV

Federal Enterprise Architecture

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