



# Chief Architects Forum

## The Chief Architects Forum and The Federal Enterprise Architecture Glossary Of Terms

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**Chairman, CAF**  
**May 3, 2005**





# The Federal Enterprise Architecture

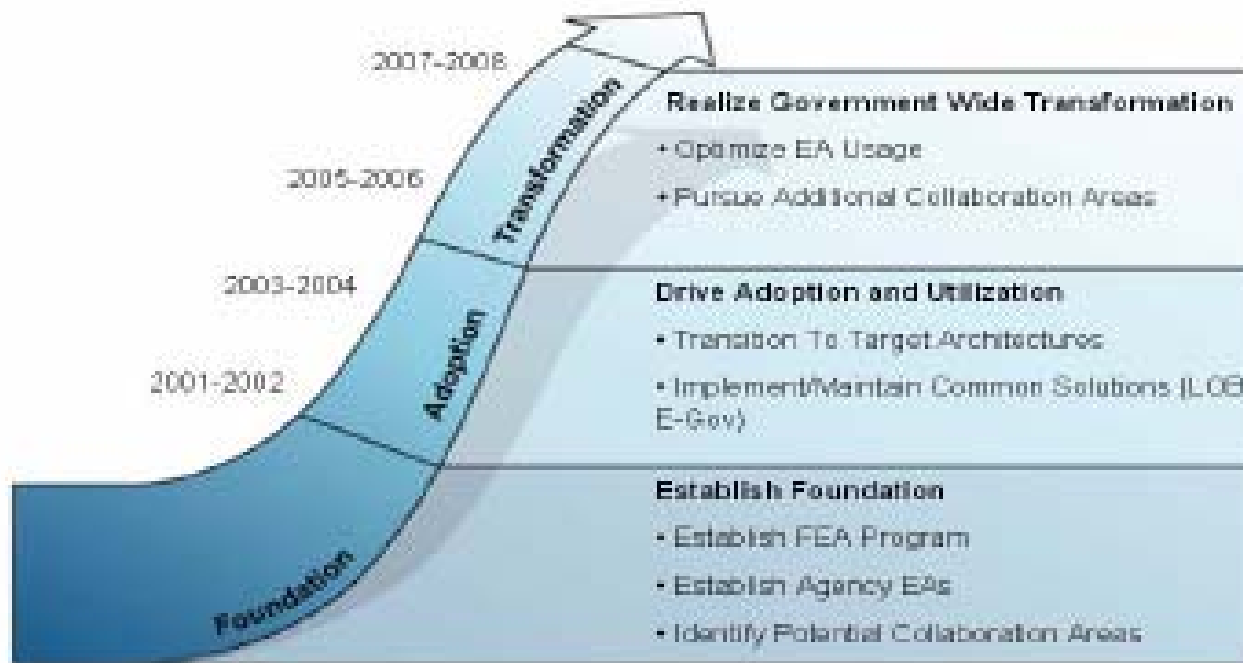


Figure 1: FEA Roadmap to Government Transformation

Ref: Enabling Citizen-Centered Electronic Government 2005 - 2006  
FEA PMO Action Plan, March 2005



# The Chief Architects Forum and EA Glossary of Terms Are About Communications



# Words Are Very Powerful





# What Are We Talking About?



## Constituencies within the EA Community

1. Executive Branch of the Federal Government
2. Legislative Branch including Congress and the GAO;
3. State and Local Governments
4. International Governments, Organizations and Companies
5. IT Research, Advisory Services, and Strategic Consulting Community
6. EA Vendors
7. EA Advisory and Professional Organizations
8. EA Support Consultants and Contractors
9. EA Conference Community
10. Universities
11. EA Continuing Education/Certification Community
12. News Media
13. Citizens/Public



# What Are We Talking About?

- **Federal Enterprise**

**Architecture** (FEA) is a business-based **framework** for government-wide improvement.



- **Technical Reference Model**

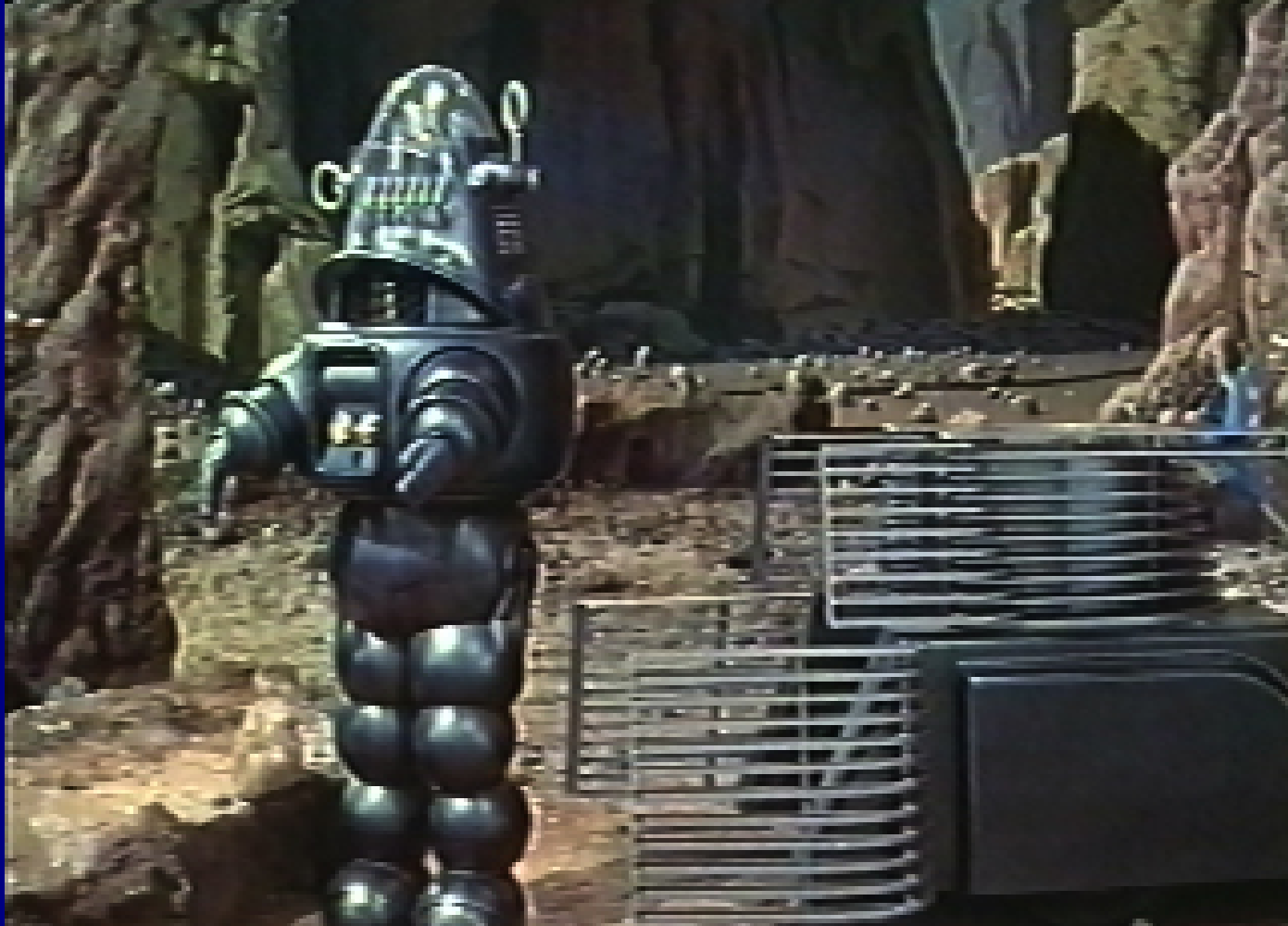
(TRM) is a **foundation** to describe the standards, specifications, and technologies supporting the delivery, exchange, and construction of business (or Service) components and E-Gov solutions.



# We Do Not Want to Wait Until The Day the Earth Stood Still



# Nor We Do Not Want to End Up Feeling Like We Are on a Forbidden Planet







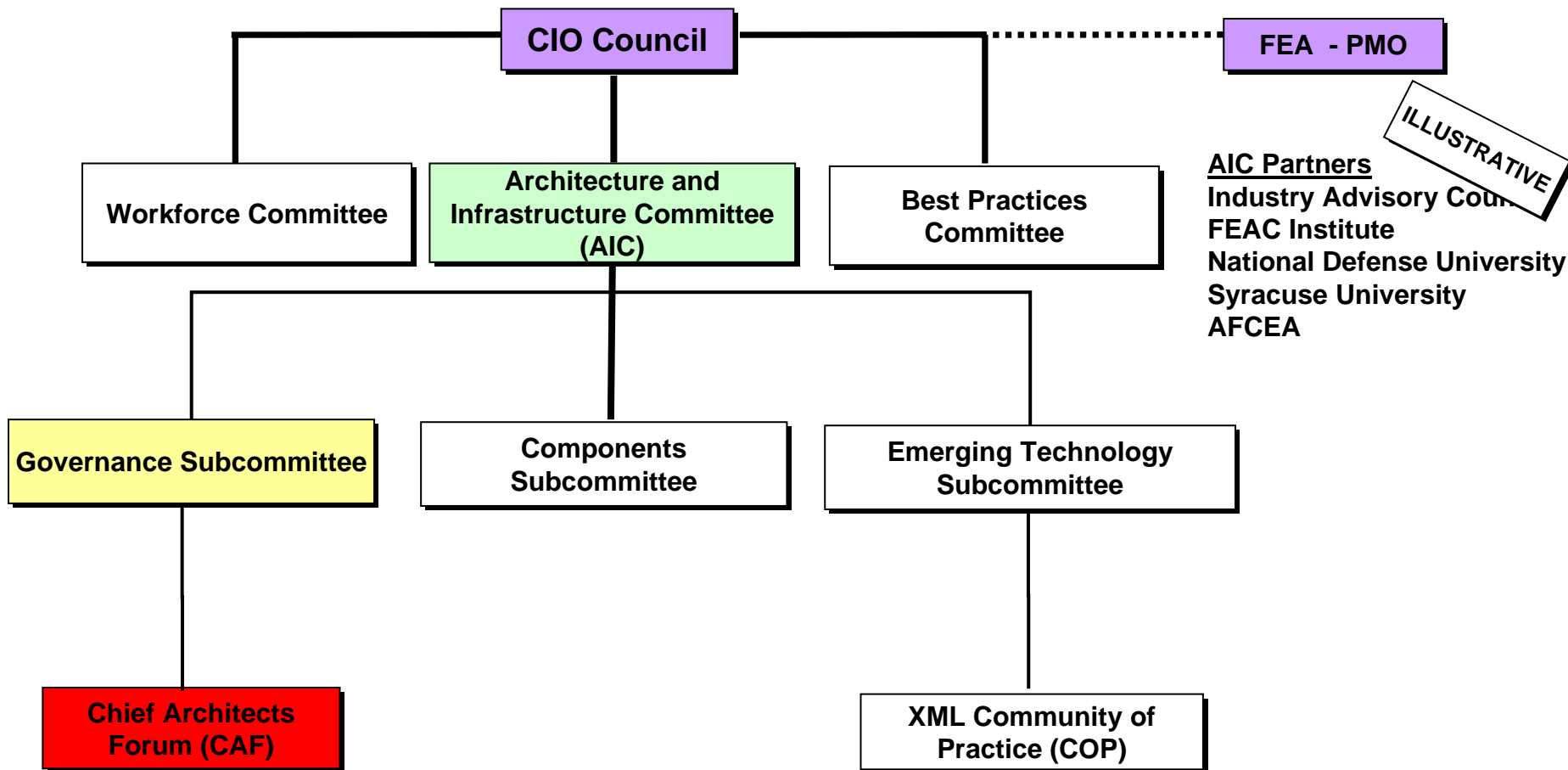
# What Is the Chief Architects Forum (CAF)?

- “I have laid out an aggressive agenda in this action plan, and I am confident we will be successful.” - *Richard R. Burk Chief Architect, Office of E-Government and Information Technology*
- It will take **the entire architecture community** – Federal agency architects, the Architecture and Infrastructure Committee (AIC) of the CIO Council, **the Chief Architects Forum (CAF)**, our partners in State and local government, the private sector and others committed to a citizen-centered and results-oriented government.
- Together, **we will provide leadership** to our organizations **by using the FEA** as the cornerstone for achieving innovative efficient design and implementation of information resources government-wide while reducing costs for the taxpayer.

**Ref: Enabling Citizen-Centered Electronic Government 2005 - 2006 FEA PMO Action Plan, March 2005**



# CAF in Reference to the CIO Council





# What Is the Chief Architects Forum (CAF)?

## 3.3.4 Support the Integration of the E-Government and LoB Initiative Architectures

- The FEA PMO will play a key role in ensuring the E-Government and LoB initiatives develop their architectures in a common and consistent manner.
- Architectures from identified E-Government initiatives will serve to inform the development and refinement of the LoB architectures at both the business and technical levels.
- In addition, the FEA PMO, in conjunction with the **Chief Architects Forum (CAF)** and the CIO Council, will work with the LoB taskforces to ensure adherence to approved segment (LoB) architectures and to confirm touch points between LoBs are identified and incorporated into the common solutions.

**Ref: Enabling Citizen-Centered Electronic Government 2005 - 2006 FEA PMO Action Plan, March 2005**



# Federal Enterprise Architecture Glossary of Terms

## 3.2.9 Develop an Enterprise Architecture Glossary of Terms

- The FEAPMO, in collaboration with the CIO Council AIC and the IAC, will develop a **comprehensive glossary of EA terms and their respective meanings to facilitate communication throughout the FEA Practice.**
- Agencies will not only be able to use the glossary as a **basic reference for understanding EA-related documents**, but also to ensure consistency in communication and establish a common understanding with OMB and other agencies regarding EA information.
- Using a **shared set of common terminology** to describe the elements of their enterprise architectures, agencies will reap greater value from their EA efforts through a better understanding of the state of the FEA Practice and more effective communication across the government.

**Ref: Enabling Citizen-Centered Electronic Government 2005 - 2006 FEA PMO Action Plan, March 2005**

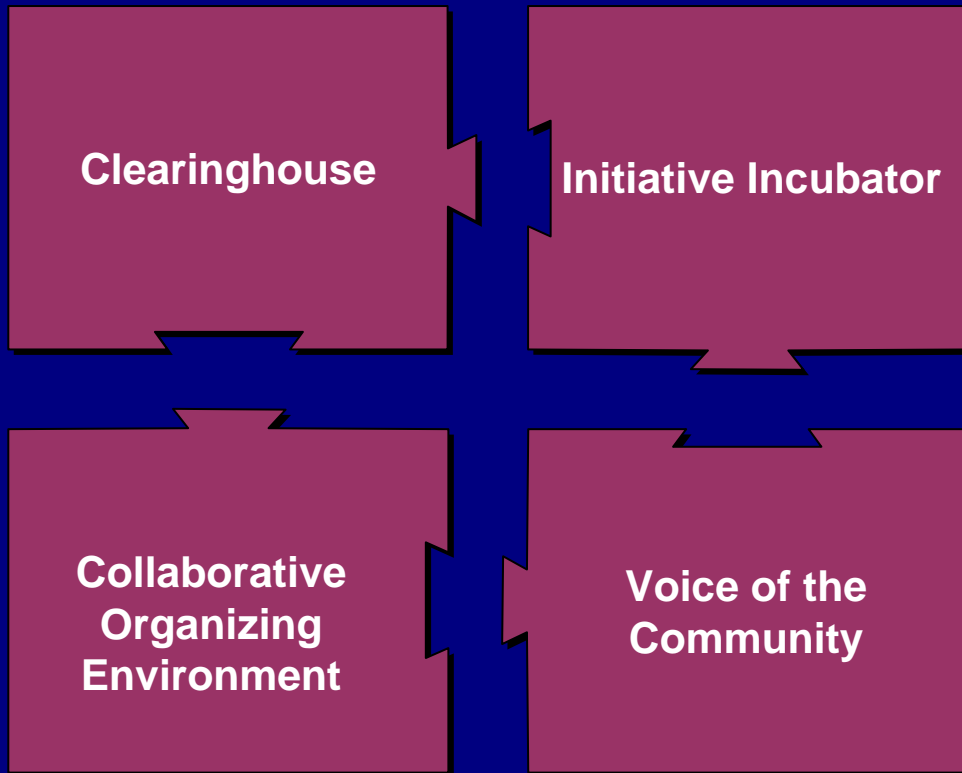


# What Is the Chief Architects Forum (CAF)?

- **Comprised of Chief Architects and their staffs from federal, state, and local government agencies.**
- **Provides an opportunity for Chief Architects to get together to share real world experiences and identify specific issues to promote EA successes.**
- **Serves as a formal mechanism as the voice of the Chief Architect Community to be heard by the AIC Leadership, CIO Council, and OMB FEAPMO.**



# CAF Purpose



- **Voice of the Community:** The CAF represents the shared voice of the EA community through a cooperative forum.
- **Collaborative Organizing Environment:** The CAF is a conducive environment for collaborative organizing around shared EA challenges.
- **Clearinghouse:** The CAF is a clearinghouse for all EA Efforts. It invites representatives from the community to discuss potential opportunities and ideas with its planning committee.
- **Initiative Incubator:** The CAF exists as an incubator for new initiatives and ideas to develop and to be discussed.



# What Does the CAF Do?

- The CAF meets quarterly and focuses on topics that are relevant to advancing the practice of EA.
- During the meetings, participants are facilitated in small group breakout sessions on various EA topics.
- A discussion summary of the meeting is prepared, which includes analysis, and is disseminated to the CAF community via the CAF list serve.
- The summary is sent to the AIC Leadership.



# CAF Involvement in FEA Activities

- **Refine the FEA Value Proposition**
- **Gather and Share EA Case Studies**
- **Establish and Implement a Governance Framework**
- **Align EA To Agency Strategic Planning**
- **Develop an EA Glossary of Terms**
- **Guide Agency Transition Planning Towards Common Solutions**
- **Measuring EA Value with the EA Assessment Program**





# Schedule of CAF Quarterly Meetings

*All meetings will be held at the NOAA Science Center in Silver Spring, MD from 1 – 4 pm*

- **Wednesday May 11, 2005**
- **Thursday July 7, 2005**
- **Thursday October 27, 2005**



# Progress To Date

This meeting identified themes that shaped the CAF's annual strategic agenda

Date	Title	Purpose	Outcome
April 5, 2004	<b>CAF Kick-Off Meeting</b>	* To congregate and introduce the CAF and identify a schedule for the upcoming year	Future meetings were scheduled for 2004 as a result
July 30, 2004	<b>Federal Lines of Business (LoB) Initiative</b>	*Identify "best practice" architecture work that is leveraging the tenets of the LoB initiative and discuss how agencies can better use the LoB initiative to support agency EA development.	Developed a LoB Summary that was a successful goal to set. A weight was given certain initiatives to follow for the future.
September 22, 2004	<b>CAF Agenda Setting Meeting</b>	*To listen to what architects had to say with respect to EA topics to completing their mission, prioritize them and identify the issues CAF should focus on throughout the upcoming fiscal year.	CAF has taken the prioritized issues and started to arrange them into the 2005 meeting schedule.
January 6, 2005	<b>EA Definition Session</b>	*Develop a draft taxonomy that streamlines processes and definitions for enterprise architecture among agencies. *Participate in a Strawman session to begin collaboration among agencies terminology use for enterprise architecture processes.	CAF has joined efforts with the DRM Working Group Glossary initiative



# Agenda Setting Meeting

This Theme resulted in the CAF's EA Glossary effort and subsequent meeting

Theme	Activity and Desired Outcome
<b>Interoperability</b>	*Improve collaboration and communication across various enterprises through the principle and practice of semantic interoperability.
	*Provide guidance on interoperability before LoB solutions are implemented.
	*Provide assistance in defining components that can be used across agencies.
	*Provide data interoperability guidance and standardized data, tools, etc.
	*Identify opportunities for leveraging EA tool buying power and the possibility of sharing of information included in existing EA tools.
<b>EA Value Proposition</b>	*Demonstrate EA value proposition.
	*Develop EA communication campaign directed at multiple stakeholders to generate enthusiasm and energy.
<b>EA Registry/ Repository</b>	*Provide a registry and repository for sharing services and components across agencies that is well known, populated, and used to promote replication.
	*Address naming convention issues associated with various registry indexes.
<b>EA Guidance</b>	*Define how EA is to be financed and what the resources are for the development and maturation of EA.
	*Provide comprehensive guidance on what needs to be done for the next EA maturity assessment (e.g. who will score it; how often will agencies be able to re-assess themselves; and, what will the information be used for.)
<b>EA Human Capital</b>	*Define what constitutes a successful EA team.



# Enterprise Architecture Glossary of Terms

## 3.2.9 Develop an Enterprise Architecture Glossary of Terms

- The FEAPMO, in collaboration with the CIO Council AIC and the IAC, will develop a **comprehensive glossary of EA terms and their respective meanings to facilitate communication throughout the FEA Practice.**
- Agencies will not only be able to use the glossary as a **basic reference for understanding EA-related documents**, but also to ensure consistency in communication and establish a common understanding with OMB and other agencies regarding EA information.
- Using a **shared set of common terminology** to describe the elements of their enterprise architectures, agencies will reap greater value from their EA efforts through a better understanding of the state of the FEA Practice and more effective communication across the government.

**Ref: Enabling Citizen-Centered Electronic Government 2005 - 2006 FEA PMO Action Plan, March 2005**



# CAF and the Internet

## ● Collaborative Site

- **Wiki:** (<http://colab.cim3.net/cgi-bin/wiki.pl?WikiHomePage>): The Wiki is the COLAB Community Wiki, and is a community for collaborative documentation. CAF documents and announcements are posted to the Wiki.

## ● Registries and Repositories

- **Core.gov:** (<https://www.core.gov/>): Core.gov is a government site that hosts a section for the CAF. CAF information such as announcements and reports are posted here.
- **ET.gov:** Will be launched in April 2005 and potentially interface with Core.gov
- **Solutions Exchange:** The Solutions Exchange (TSE) was created by the CIO Council's Best Practices Committee as a clearing house for reusable IT investments from across government.



# What Is a Wiki?

## ● wiki<sup>1</sup>

- Wiki-wiki is the Hawaiian word for quick.
- Wiki Web sites are sites designed for users to be able to make additions or edit any page of the site. They often have a common vocabulary, and consider themselves a "Wiki" community.



# Chief Architects Forum Wiki Page

## <http://colab.cim3.net/cgi-bin/wiki.pl?ChiefArchitectsForum>

## ChiefArchitectsForum

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## Chief Architects Forum Home Page (2PJK)

### Introduction: (2PJL)

#### What is the Chief Architects Forum? (2PJM)

- The Chief Architects Forum serves as a formal mechanism for the voice of the Chief Architect Community to be heard by the AIC Leadership, CIO Council, and OMB. (2PJN)
- The Forum is comprised of Chief Architects from federal government agencies. (2PJ0)
- Provides an opportunity for Chief Architects to get together to share real world experiences and identify specific issues to promote EA successes. (2PJP)

#### What is the purpose of CAF? (2PJQ)

- To assist Chief Architects in improving the practice and usefulness of architectures in their agencies and in the Federal Government at large. (2PJR)

#### What is the philosophy of CAF? (2PJS)

- The CAF represents the shared voice of the EA community through a cooperative forum and that federal - wide EA success rests squarely on the success of the individual and departments. (2PJT)

#### What is the Operational Model of the CAF? (2PJU)

- The CAF meets quarterly and focuses on topics that are relevant to advancing the practice of EA. (2PJV)
- During the meetings, participants are facilitated in small group breakout sessions on various EA topics. (2PJW)
- A discussion summary of the meeting is prepared, which includes analysis, and is disseminated to the CAF community via the CAF list serve. (2PJX)
- The summary is also sent to the AIC Leadership. (2PJY)

### Key Date(s) to Note: (2PJZ)

- All Chief Architect Forums will be held on Thursday afternoons from 1:00 - 4:00 PM Eastern Time at the NOAA Science Center in Silver Spring, MD (2PK0)
  - [January 6, 2005](#) (2PK1)
  - [May 11, 2005](#) [Please note change in date. This meeting only will be on a Wednesday.] (2PK2)
  - [July 7, 2005](#) (2PK3)
  - [October 6, 2005](#)[Change from original date] (2PK4)

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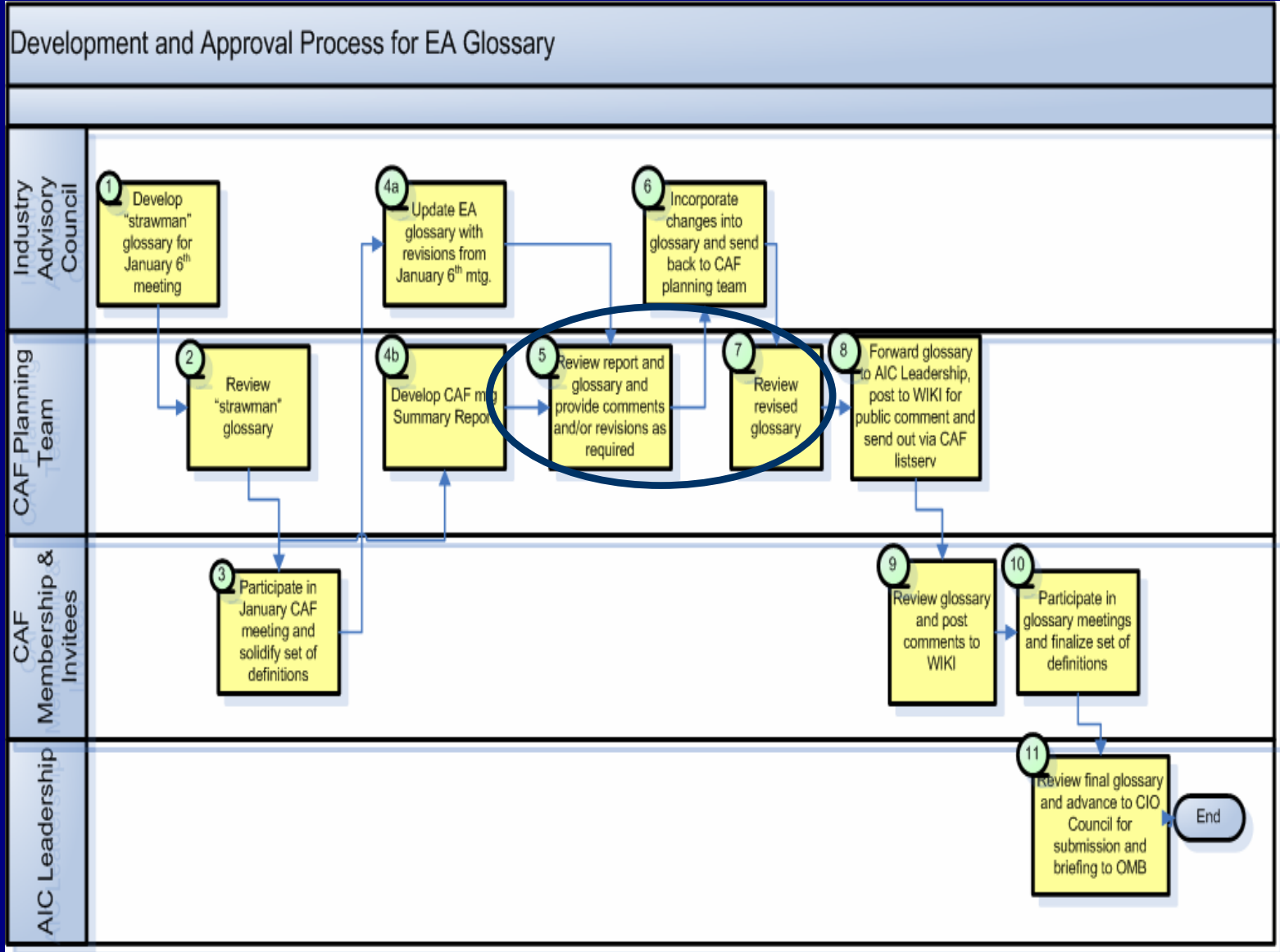
# Draft EA Glossary of Terms

- The Industry Advisory Council prepared a strawman draft EA Glossary of Terms and introduced it at the last CAF Meeting.
  - The glossary contained an edited set of definitions and terms
  - This glossary was reviewed in small group break-outs and is being refined.
- The draft EA Glossary of Terms Version 1.0 is undergoing the collaboration process within the EA Community that was instigated by the CAF





# EA Glossary Development Process



# Enterprise Architecture Glossary Of Terms

[http://colab.cim3.net/cgi-bin/wiki.pl?Enterprise\\_Architecture\\_Glossary\\_Of\\_Terms](http://colab.cim3.net/cgi-bin/wiki.pl?Enterprise_Architecture_Glossary_Of_Terms)

## Enterprise Architecture Glossary Of Terms

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### [Chief Architects' Forum](#) (2PXR)

### [HowToComment](#) (2PYC)

### [Enterprise Architecture Glossary of Terms \(under development\)](#) (2PSR)

- [1. Baseline Architecture](#) (2P55)
- [2. Business Context](#) (2P5T)
- [3. Business Functions](#) (2P5U)
- [4. Collection](#) (2P5V)
- [5. Community of Practice](#) (2PM3)
- [6. Context Descriptions](#) (2P5W)
- [7. Data Asset Description](#) (2P5X)
- [8. DRM Model Constructs](#) (2P5Y)
- [9. Extensible Markup Language](#) (2P50)
- [10. Formal Taxonomy](#) (2P52)
- [11. Information Access Endpoint](#) (2PT0)
- [12. Information Exchange Package](#) (2PT1)
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- [15. Metamodel Constructs](#) (2PT3)
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- [17. Sharing Descriptions](#) (2PT4)
- [18. Subclass](#) (2PT5)
- [19. Subject Taxonomy](#) (2PT6)
- [20. Target Architecture](#) (2PT7)
- [21. Transition Plan](#) (2PT8)
- [22. Web Services](#) (2P54)
- [23. XML Schema](#) (2P55)

### [History](#) (3DE)

- Created Enterprise Architecture Glossary of Terms page and aggregated existing terms from the DRM team sources. [SusanTurnbull / 2005\\_04\\_21 7:29 PM](#) (2PY2)

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# Enterprise Architecture Glossary of Terms (under development)

- **Baseline Architecture**
- **Business Context**
- **Business Functions**
- **Collection**
- **Community of Practice**
- **Context Descriptions**
- **Data Asset Description**
- **DRM Model Constructs**
- **Extensible Markup Language**
- **Formal Taxonomy**
- **Information Access Endpoint**
- **Information Exchange Package**
- **Information Protection)**
- **Metadata**
- **Metamodel Constructs**
- **Ontology**
- **Sharing Descriptions**
- **Subclass**
- **Subject Taxonomy (2PT6)**
- **Target Architecture**
- **Transition Plan**
- **Web Services**
- **XML Schema**



# Sources for EA Glossary of Terms, Version 1.0

- Five FEA Reference Models
  - Data
  - Business
  - Performance
  - Service Component
  - Technical
- OMB Circular No. A-11, Section 53, Information Technology and E-Government
- OMB Federal Enterprise Architecture Program Management Office
- Federal CIO Council Architecture and Infrastructure Committee



# Definition Construct

## ● Business Definition

- Non-technical definition (“Dummies” Definition)
- Intended for the business community
- Most general definition

## ● Technical Definition

- Intended for the IT community
- Provides technical specificity
- In conformance with Business Definition

## ● Context Definitions

- Intended for specific Department or organization
- Provides greater detail or clarity than Technical Definition
- In conformance with Business and Technical Definition
- Cannot conflict with Business and Technical Definition
- Can have multiple Context Definitions

# Extensible Markup Language

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**Extensible Markup Language (XML)** ([2PXX](#))

**Business Definition** ([2PXY](#))

XML is a way for representing the structure and meaning of electronic information, whether it be data, text, or sound. ([2PXZ](#))

**Technical Definitions** ([2PY0](#))

W3C 'recommendation' (i.e., standard) for building new markup languages for Web delivery ([2PSA](#))  
A simplified form of SGML, allowing inexpensive, fast, Web browsers; XML is a subset of SGML (Ref: Intelligence Community Metadata Working Group / <http://www.xml.saic/icml/terminology.asp>) ([2PSB](#))

The Extensible Markup Language (XML) is a W3C-recommended general-purpose markup language for creating special-purpose markup languages. It is a simplified subset of SGML, capable of describing many different kinds of data. Its primary purpose is to facilitate the sharing of structured text and information across the Internet. Languages based on XML (for example, RDF, RSS, MathML, XSIL and SVG) are themselves described in a formal way, allowing programs to modify and validate documents in these languages without prior knowledge of their form. (Wikipedia / Ref. <http://en.wikipedia.org/wiki/XML>) ([2PKX](#))

**Representations/ Renderings** ([2PS8](#))

Simple Knowledge Organization System (SKOS) ([2PS9](#))

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# How to Comment

- Use **purple number** method to anchor your comments to the relevant paragraph
  - Right click on the "**purple number**" following the section identified for comment like the "**2J0U**" at the end of this line (**2J0U**)
  - Select copy shortcut
  - Paste into your email message with subject line - Comments
  - Follow the example of comments provided below; "purple number" is pasted in after ref: (for reference)
  - Add your name, date and time in parentheses
  - Subscribe to the appropriate discussion forum for your comments:
    - **Subscribe to the DRM public site Discussion Forum**
    - **Subscribe to the Chief Architects' Discussion Forum**
  - Send your message to the appropriate public site:
    - **For DRM comments: [drm-public@colab.cim3.net](mailto:drm-public@colab.cim3.net)**
    - **For Chief Architects' Forum EA glossary of terms: [caf-forum@colab.cim3.net](mailto:caf-forum@colab.cim3.net)**



# Example: Comment

- ref: [http://colab.cim3.net/cgi-bin/wiki.pl?Extensible\\_Markup\\_Language#nid2PXX](http://colab.cim3.net/cgi-bin/wiki.pl?Extensible_Markup_Language#nid2PXX) (2PY9)
  - suggest changing business definition of Extensible Markup Language to read: XML is a notation system for representing the underlying structure and meaning of electronic information, whether it be data, text, or sound. (2J11)
    - (--SusanTurnbull / 2005.05.27 12:30pm EST) (2J13)
- **Comments received for the Data Reference Model (DRM) Public Forum will be added to the bottom of the relevant page with the corresponding "purple number" link. (2J1A)**
- **Comments received on the Enterprise Architecture Glossary of Terms will be reconciled by the Chief Architects' Forum. (2PYB)**





# EA Glossary Development Timeline (Tentative)

- EA Glossary of Terms, 1st draft - **June 30<sup>th</sup>**
- CAF Planning Committee Review - **July 15<sup>th</sup>**
- Public Comment of Glossary on WIKI – **Aug. 1<sup>st</sup>**
- Issue Draft Glossary to AIC/FEAPMO for Review – **Aug. 15<sup>th</sup>**
- Issue Draft Glossary to Public – **Sept. 15<sup>th</sup>**

# How You Can Help the CAF Develop FEA Glossary of Terms

## ● Volunteers Needed

- Writers (Maximum 10 words to define)
- Reviewers (Maximum 10 words to review for clarity and understandability)
- Editors (Maximum 20 words to edit)
- Senior Editors (CAF Planning Committee)



# CAF Efforts Moving Forward

- ▶ **Continued EA Glossary Development**: The CAF is currently collaborating with other federal efforts in order to develop a preliminary glossary that stems from the Strawman developed at the last Quarterly Meeting.
- ▶ **DRM Working Group**: The Architecture and Infrastructure Committee (AIC) is evolving an interagency collaborative working group to develop the next version of the Federal Enterprise Architecture Data Reference Model and associated implementation guidelines. The CAF is collaborating with this effort.
- ▶ **Geospatial**: The AIC and the Federal Geographic Data Committee (FGDC) are developing a partnership that will support the President's Geospatial One-Stop Initiative in creating a single point of access to geospatial information. Through this partnership, the AIC will help develop a National Geospatial Enterprise Architecture and the FEA Geospatial profile.
- ▶ **Cyber Security Line of Business (LoB)**: OMB established the IT Security LoB that focuses on agencies' vulnerabilities, defense against threats and management of resulting risks. Consequently the FEA PMO has taken responsibility for guiding this LoB through development, as outlined in the FEA PMO Strategic Plan. The Cyber Security LoB is an important topic and will potentially be the next CAF Quarterly Meeting in May.
- ▶ **LEAD (Leadership in Enterprise Architecture Deployment Update)**: LEAD presented at the CAF Planning Committee this Spring. It is an Intelligence Community project focused on establishing a dialogue between public and private Enterprise Architecture counterparts, identifying best practices that will improve information sharing, and providing leadership in the area of EA within the IC, the federal government, and the commercial community.



# How the CAF can assist in your work

1. Communicate with other agencies
2. Enhance networking in the EA Community
3. Collaborate with other EA initiatives and projects
4. Become educated on latest EA efforts
5. Enlighten yourself through sharing of knowledge
6. Use as a forum to develop your own EA efforts

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## Collaborative and Efficient Results

# Contact Information

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# Questions and *Hopefully* Answers

