

Architecture in the Intelligence Community

- DoD Enterprise Architecture Conference, June 2009



Connect. Integrate. Collaborate.

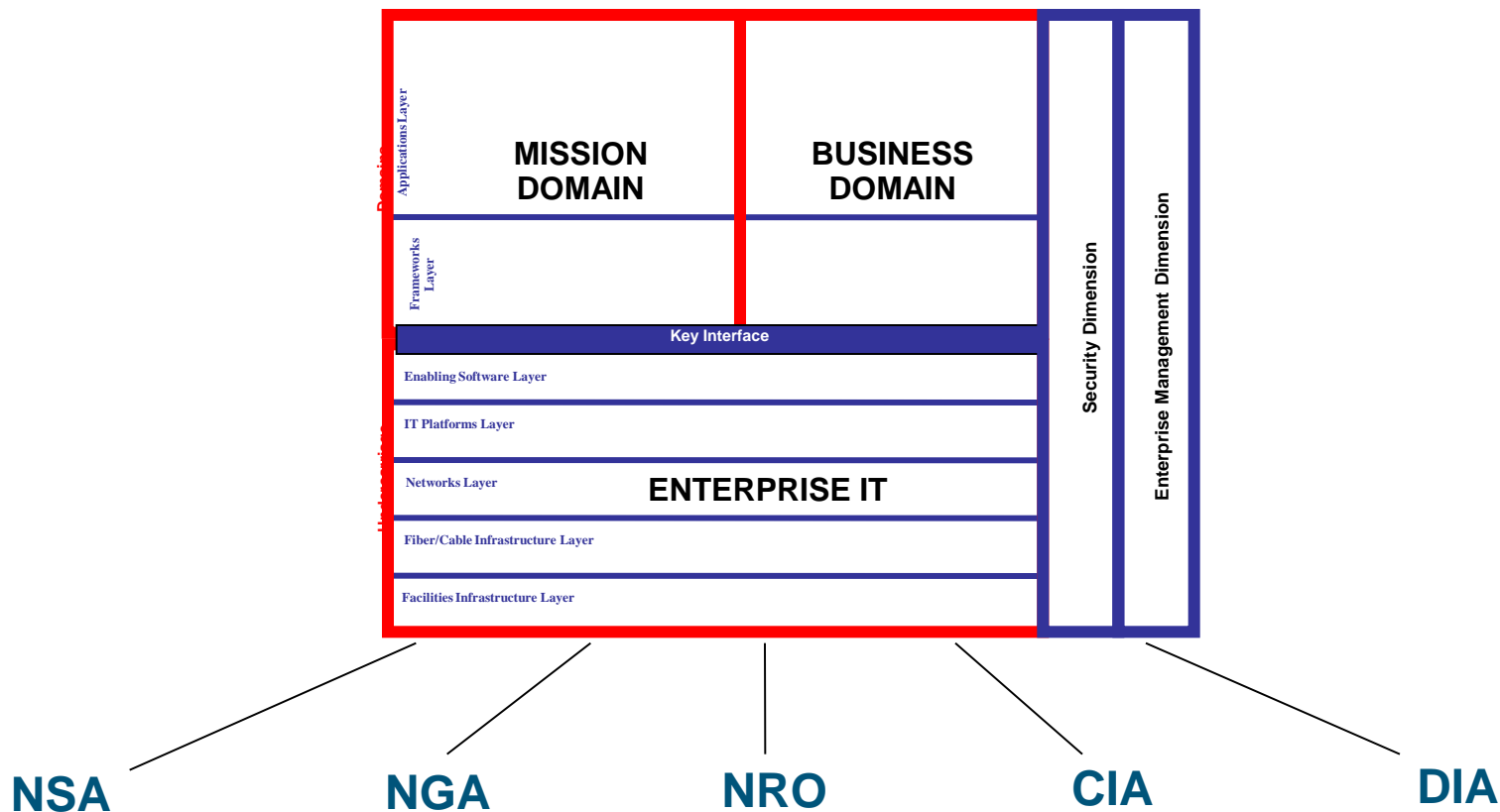


Topics

- Environment
- Joint Systems Engineering Forum (JSEF)
- Joint Architecture Reference Model (JARM)
- Exercising the Model
- Guiding Decisions/Investments
- Partnership with DoD
- Next Steps



Environment: A Federation of Architectures



Vision: Every piece of information is discoverable and accessible to every appropriately cleared and authorized element of the Integrated Intelligence Enterprise.



Joint Systems Engineering Forum (JSEF)

August 2008

3 Members

-  NRO
-  NGA
-  NSA

May 2009

9 Members

-  CIA
-  NRO
-  DIA
-  FBI
-  DHS
-  NGA
-  NSA
-  ODNI
-  USDI

September 2009

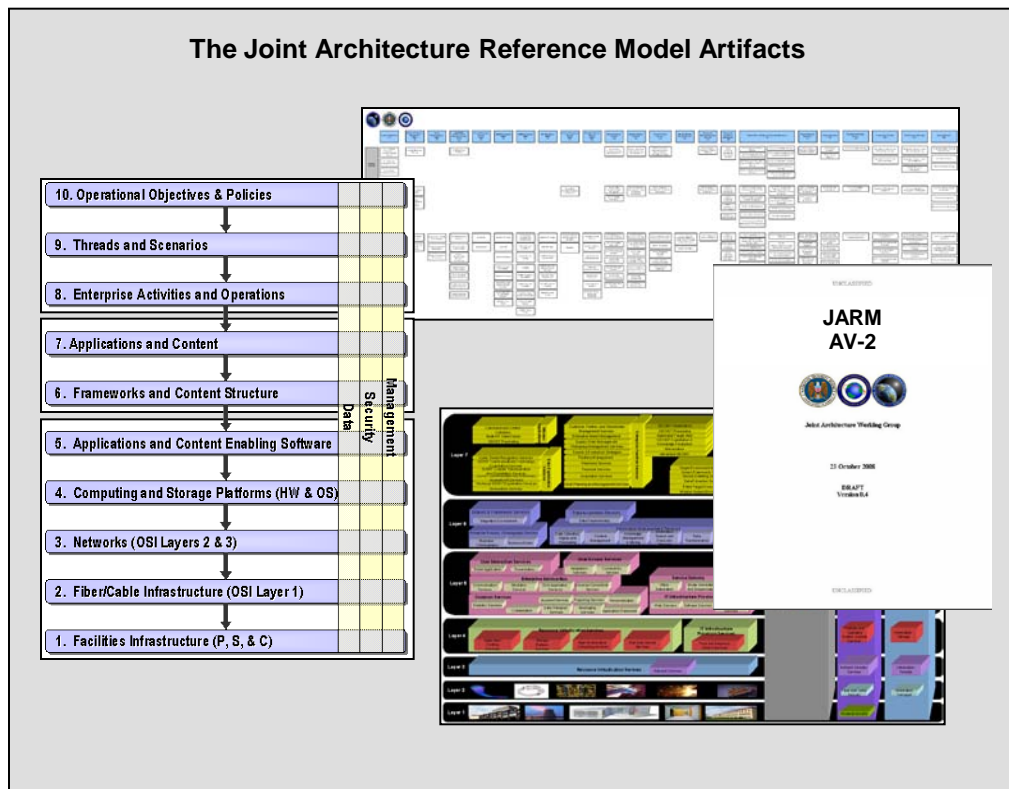
16 + Members?

-  CIA
-  NRO
-  DIA
-  FBI
-  DHS
-  NGA
-  NSA
-  ODNI
-  USDI
- Others
- ...



The Joint Architecture Reference Model

- Cross-agency dictionary (AV-2)
- Ten-layer model
- Mission threads
- Functional exchanges
- Competency model
- Services taxonomy



The Joint Architecture Reference Model (JARM)

DNI IC EA
 Intelligence Community
 Enterprise Architecture

Joint Architecture Reference Model

**Agency DoDAF
 Architectures**

The JARM provides the framework to evaluate acquisitions and analyze performance of the IC enterprise

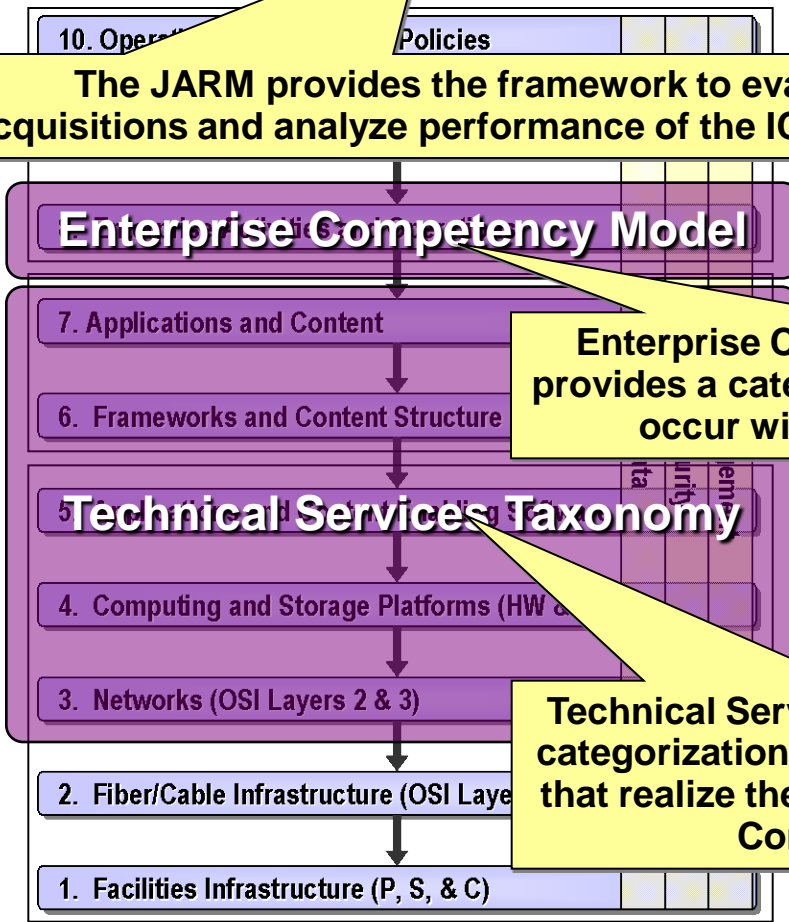
IC Business Reference Model - IC Objectives

IC Performance Reference Model - Measures of Success

IC Service Reference Model - Functionality

IC Data Reference Model - Information Holdings

IC Technical Reference Model - IT Standards

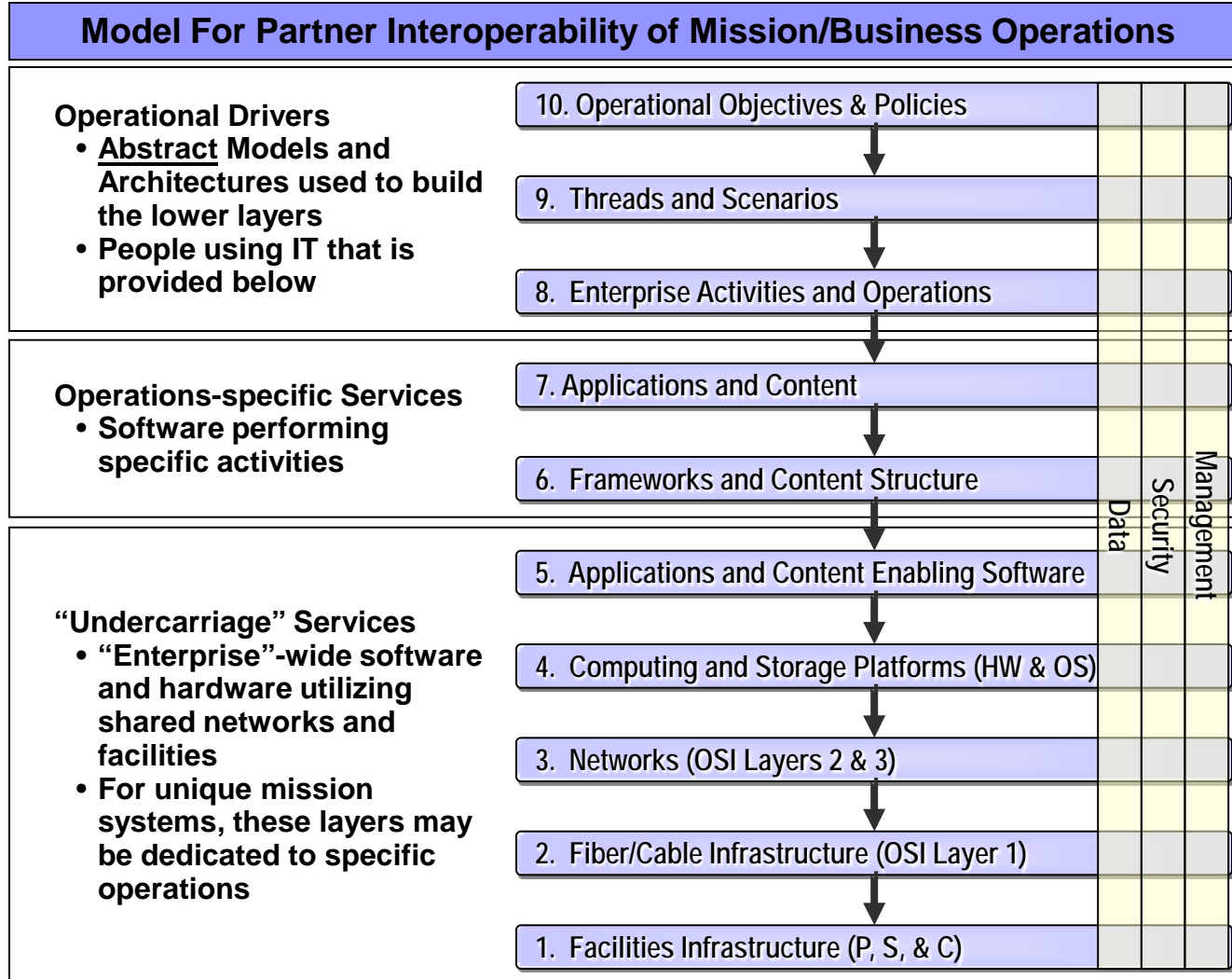


Enterprise Competency Model (ECM) provides a categorization of activities that occur within the IC Enterprise

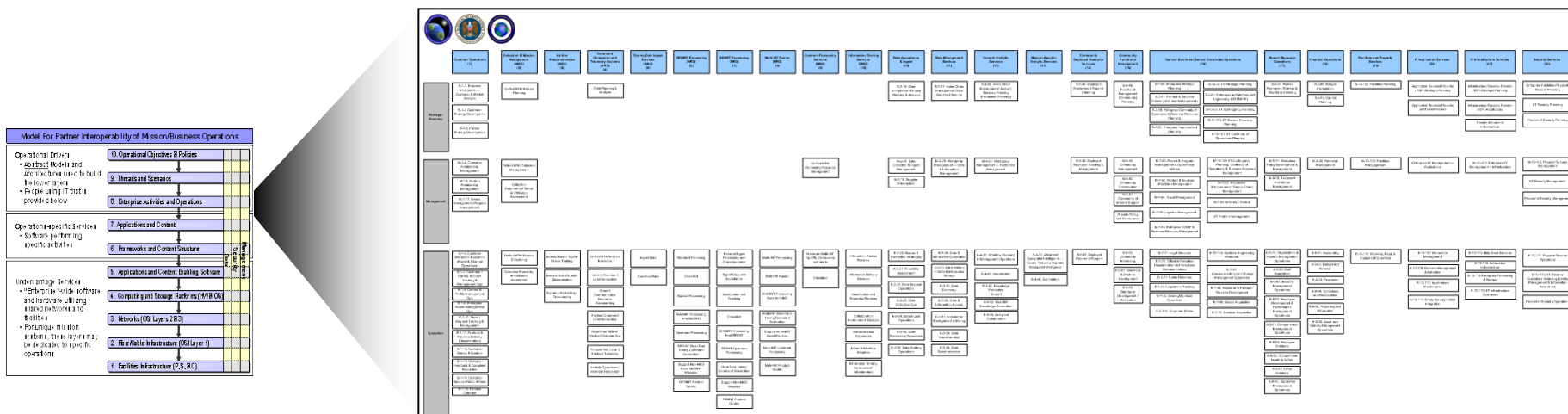
Technical Services Taxonomy provides a categorization of service implementations that realize the activities in the Enterprise Competency Model



Generic Layered Taxonomy Overview



The Enterprise Competency Model



Developed an integrated enterprise competency model

- Started with over 400 individual agency components and activities
- Established 23 IC competencies
- Identified 185 IC enterprise components
- Defined each of the competencies and components



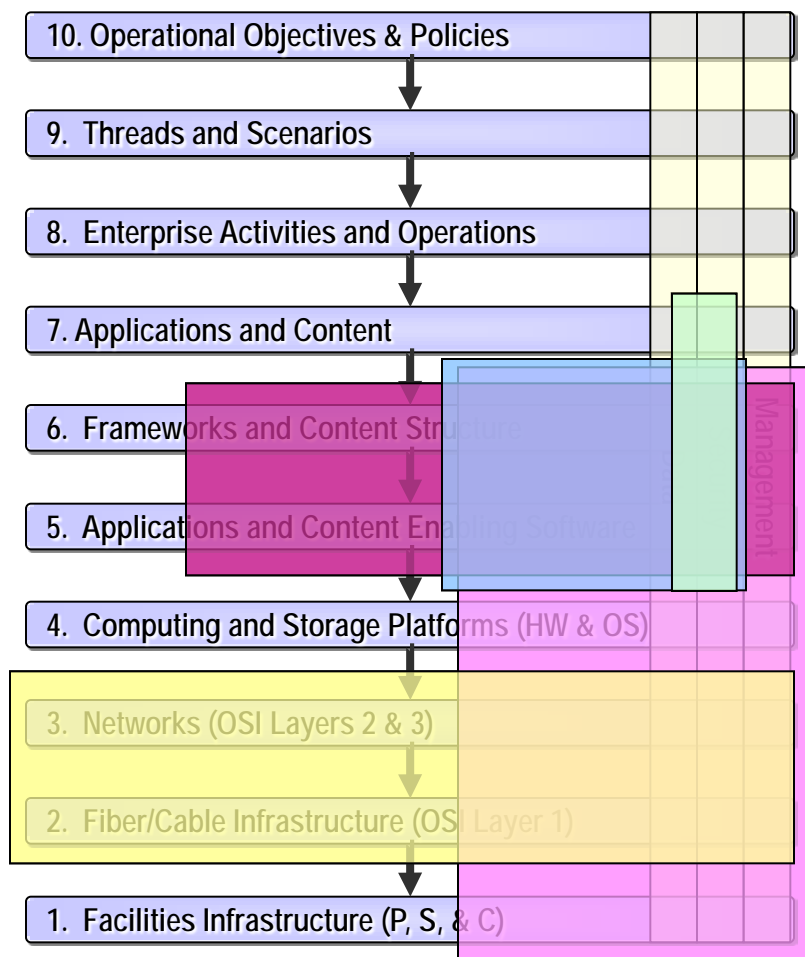
Exercising the Model with Mission Scenarios

- Over a dozen Mission Scenarios identified
- Develop process flows
- Identify Enduring Functional Exchanges (EFEs)
- Identify Barriers (Policy/Practice/Technical)
- Develop Recommendations

Making Architecture Relevant to Mission !



Guiding Decision Making/Investments



- Some Existing Efforts:

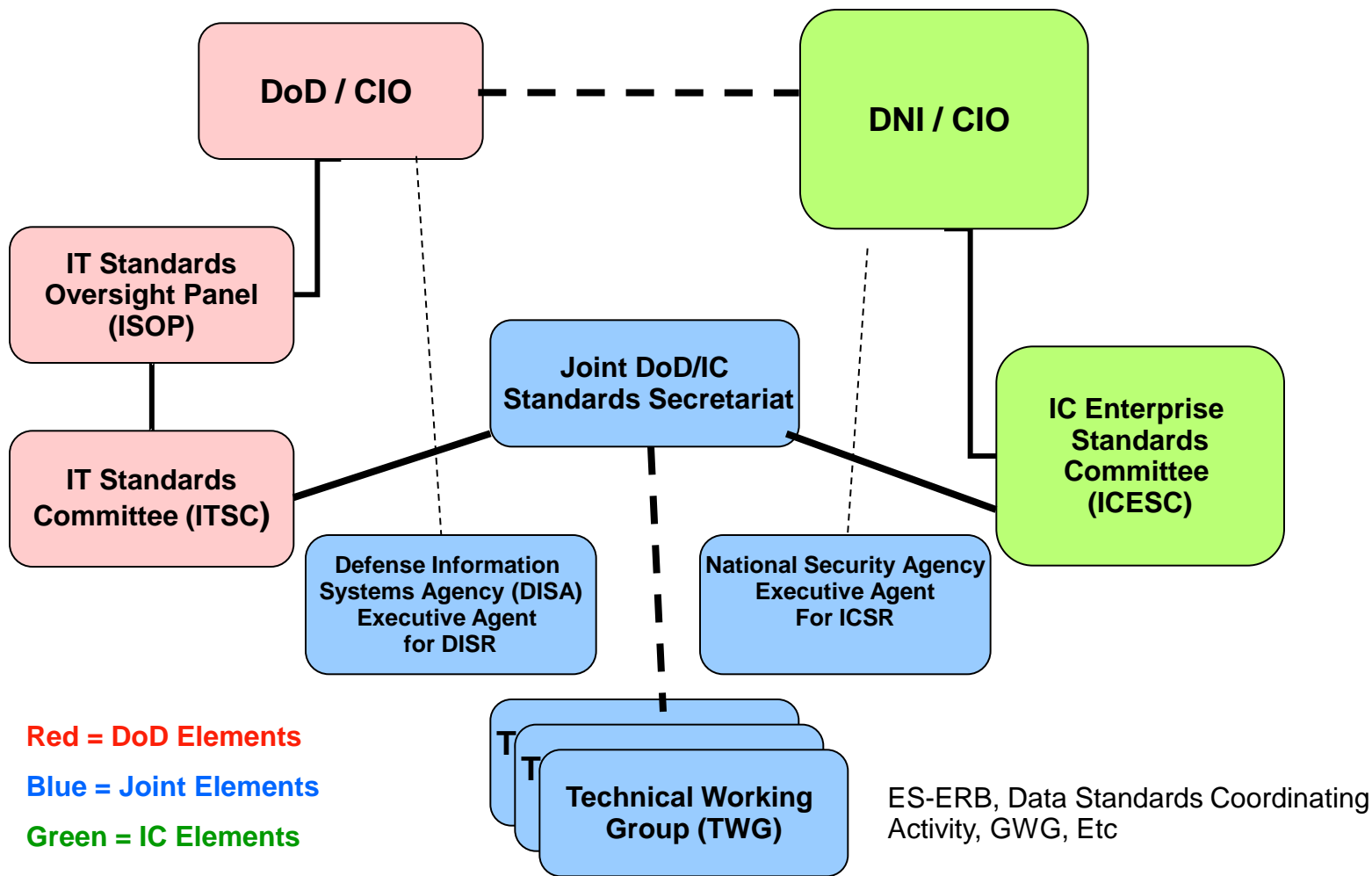
- IC Information Transport Services Working Group
- Common Software & Services Working Group
- Authentication & Access Tiger Team
- Network Integration Steering Group
- Facility Technical Exchange Meetings

- JARM Provides:

- Organizing construct
- Structure for the flow down of required capabilities



IC/DoD Enterprise Standards Governance



IC/DoD MOA in staffing to engage joint Standards Governance

Next Steps

- Expand Membership
- Refine Joint Architecture Reference Model
- Perform additional mission thread analyses
- Establish IC Services Registry
- Inform Governance process(es)

