



Defense Information Systems Agency

**A Combat Support Agency**

# Enterprise Messaging Overview

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**17 August 2011**

UNCLASSIFIED

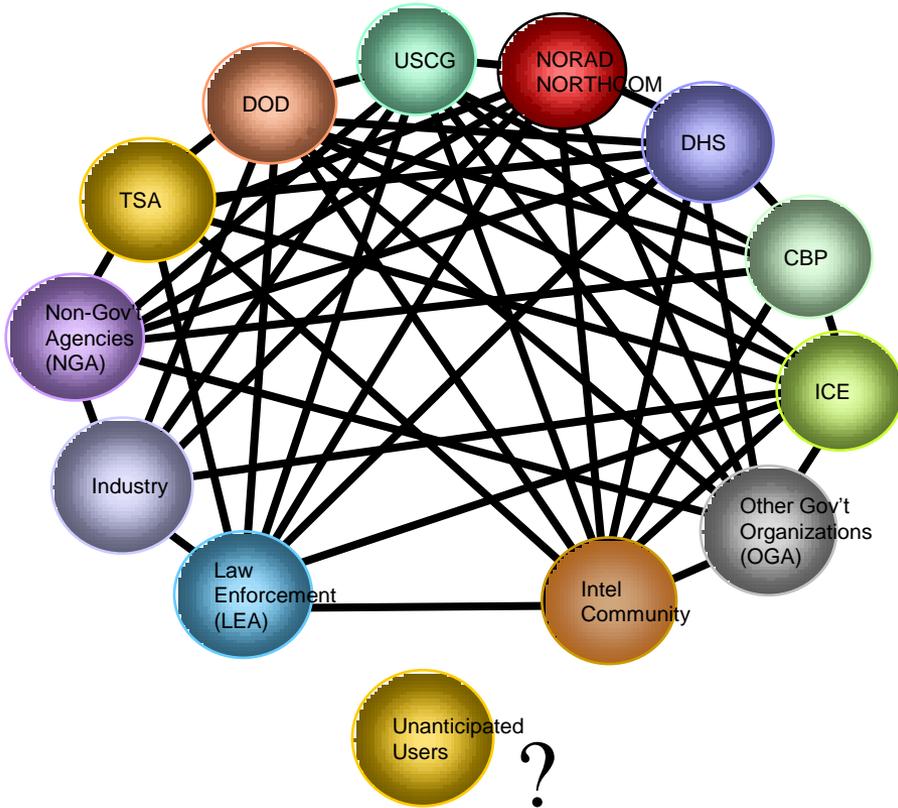


# Disclaimer

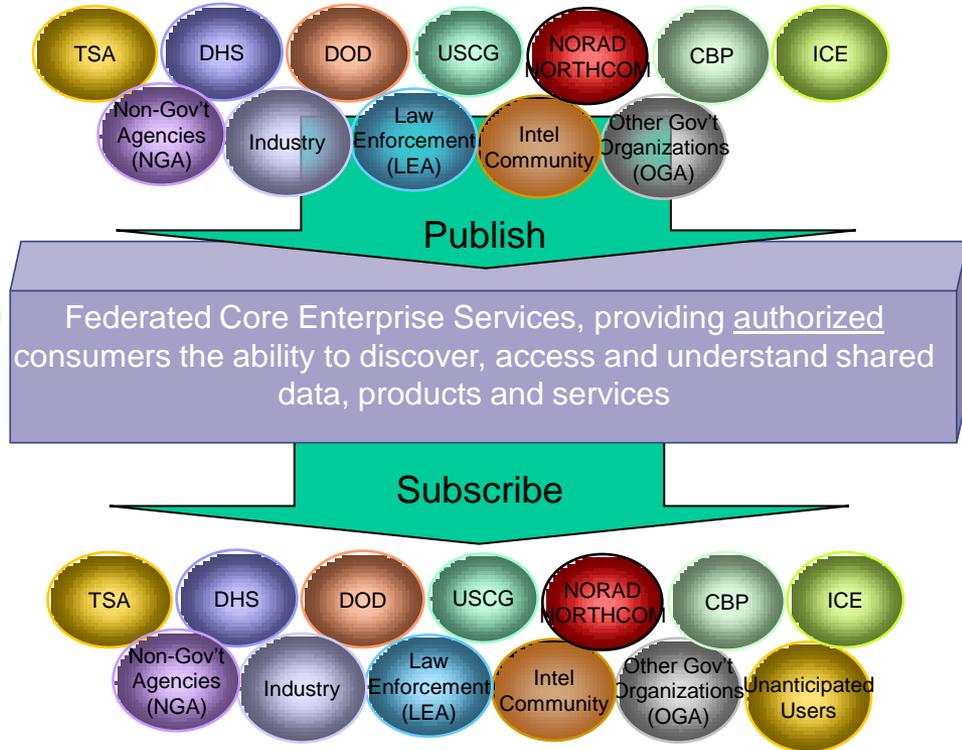
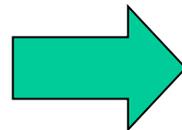
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- **Introduction**
- **Enterprise Messaging - Today**
- **Enterprise Messaging 4.0**
- **Beyond Enterprise Messaging 4.0**

# Changing the Paradigm

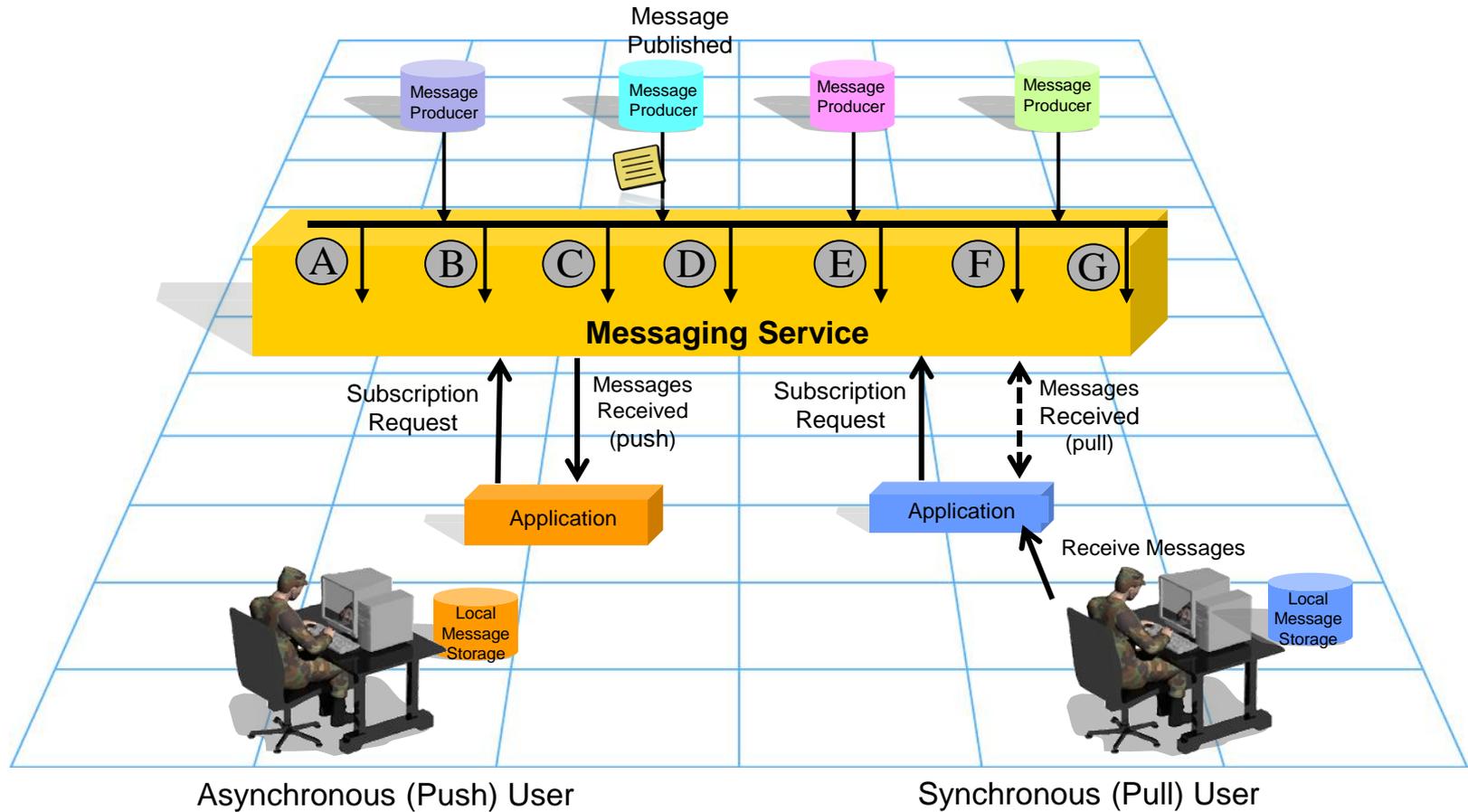


- Point-to-point (coupled) data sharing ...
- Not extensible, agile or flexible ...
- Grows exponentially in both complexity and expense ...



- Net-Centric data sharing ...
- Decouples data providers and consumers ...
- Extensible, flexible and responsive

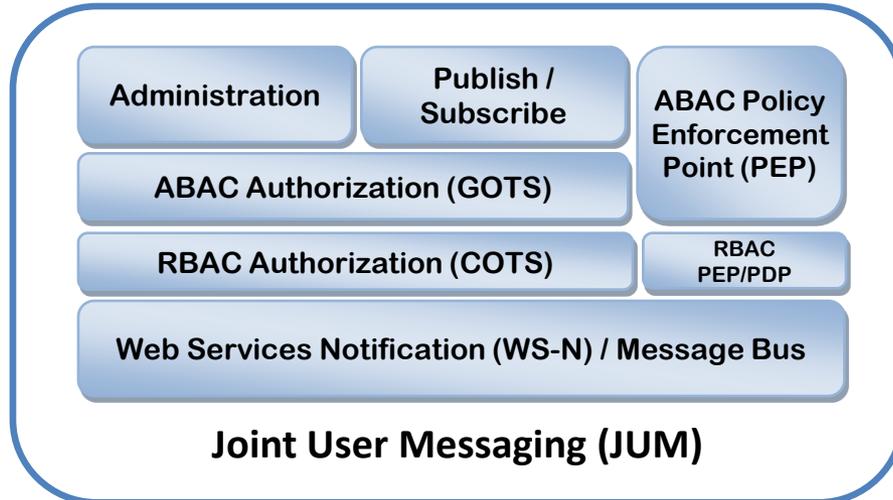
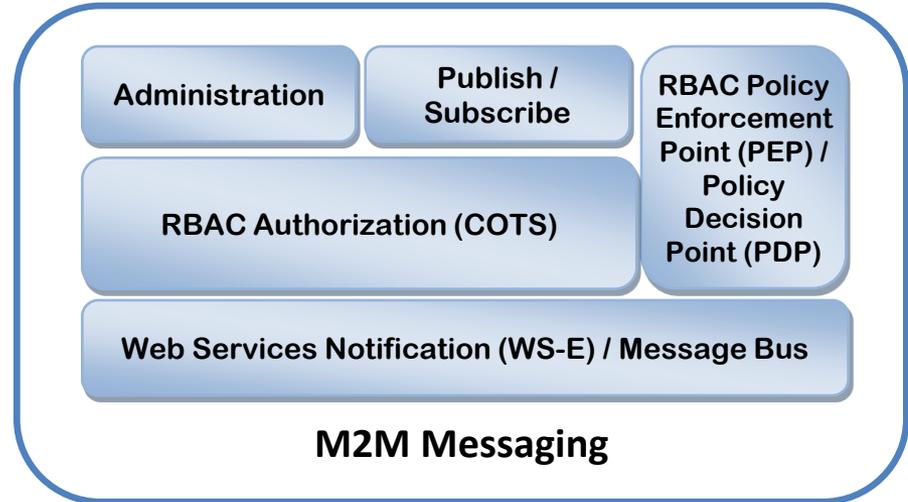
# Messaging Use Case

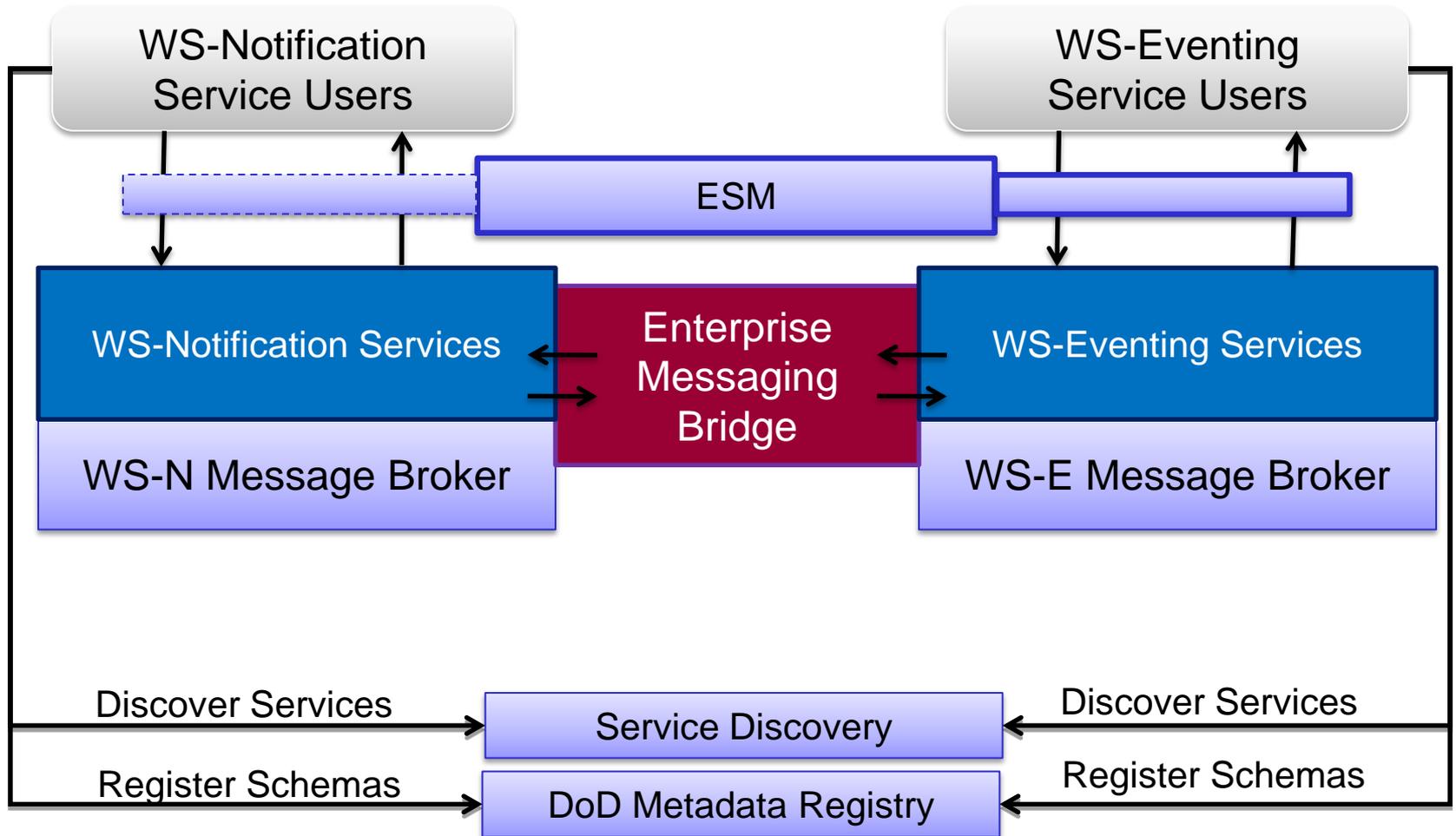


# Messaging Benefits

- **Promotes decoupling of information among producers and consumers**
  - Asynchronous point-to-multi-point (Publish & Subscribe)
  - Producers do not keep track of consumers
  - Producers and consumers do not have to be continuously connected to network
- **Ensures Quality of Service**
  - Guaranteed Messaging (once-and-only once delivery)
  - Messages queued for delivery (within established time to live)
- **Provides mediation of open messaging interfaces between Communities of Interest (COIs)**
- **Allows for standardized application integration**

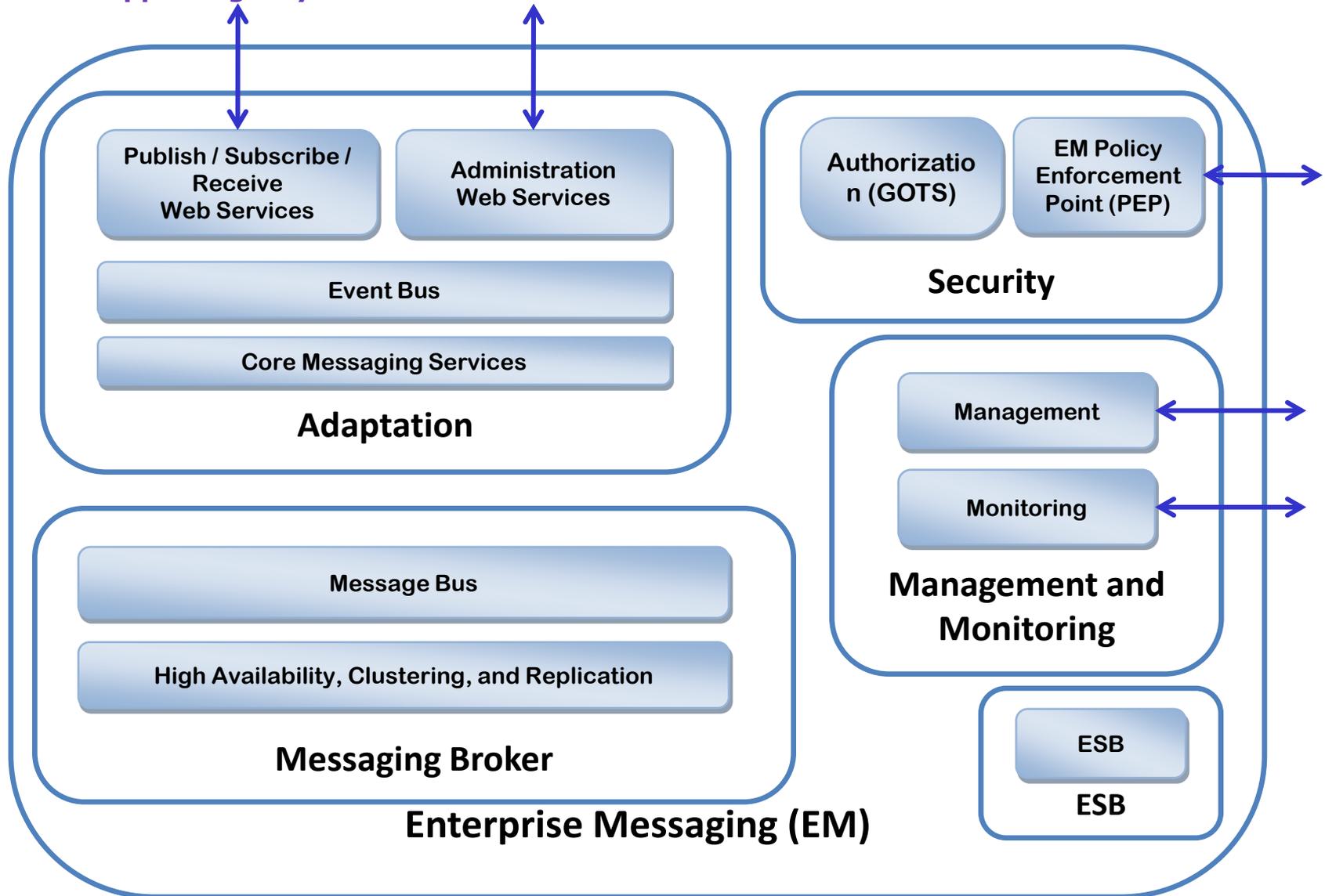
# Current Enterprise Messaging Configuration





# Enterprise Messaging 4.0: Combined FY12 Solution

# Logical Architecture



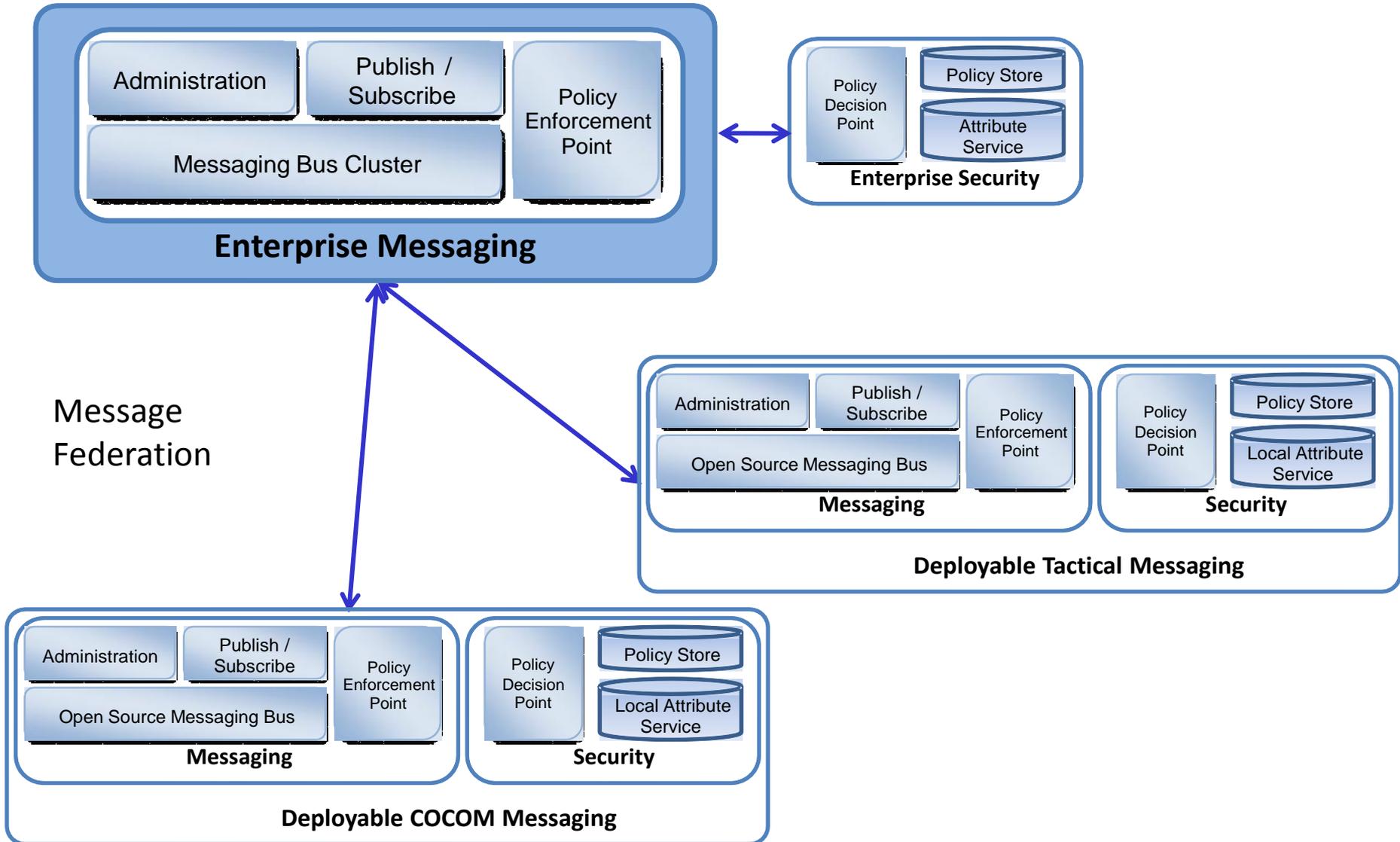
# Advantages of 4.0

- **Implements multiple WS-\* specifications for web service based messaging**
- **Modular architecture opens possibility for additional interfaces and protocols**
  - Increased redundancy and availability throughout the system
- **Supports a unified Attribute Based Access Control (ABAC) security model**
- **Uniform Management and Monitoring across all layers**
- **Lower costs to scale clusters and deploy standalone servers**

# Beyond 4.0

- **4.1: Federation, Deployable Messaging, AMQP Support**
- **4.2: Active-Active, Automated Failover and Provisioning**
- **4.3: Enterprise IdAM Integration, Cross Domain**
- **4.4: MAC I**
- **4.5: Orchestration, Mediation, Transformation**

# Messaging from the Edge



# Federated Messaging

