Navy Portal Development

NMCI Industry Symposium

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NMCP Policy Guidance Memorandum

"In order to realize the benefits of our significant information technology infrastructure investment, a framework for organizing, managing and accessing department information must be established. This framework will be a single integrated enterprise portal structure for use throughout DON."

- A framework that provides an integrated enterprise portal structure.
- Web-based, user-customizable.
- Access to multiple systems & information services.

NMCP Vision

- Limit duplicative investments in portal technology within DON.

- Improve efficiency and effectiveness in portal usage through reduction in investments, promotion of common best practices and facilitation of authoritative data bases.

- Promote DON-wide process engineering.

- Support functional and organizational collaboration across the DON.

Operational Value Added

- Enterprise Information management
- Promotes joint interoperability (One voice)
- Enterprise Single Sign-On
- Presentation of aggregate information
  - Common Operational picture
  - Expeditionary forces support
  - Promotes collaborative environment
- Correlation of information (DON level)
- Ubiquitous access to authoritative data
  - Marine & Sailor
- Transportability & training (Common Look & Feel)

Business Value

- Limits duplicative investments in portal technology.
  - Accelerates development efforts.
- Enables insertion into a broader community with a lower cost.
- Provides common supporting infrastructure for application hosting and data management.
  - Distributed environment (failover, regional focused support, survivability)
  - Enterprise licensing & OM costs
- Promotes common best practices
  - Pooling development efforts

Enabling Capabilities

- Expose and manage access to shared authoritative data sources
- Promote sharing of data through web-services standards and protocols
  - WSDL for describing services
  - SOAP for connecting
  - XML for encoding
  - UDDI for registering and visibility
- Enables enterprise management of the Navy's service offerings
  - Promotes authoritative data
  - Prevents redundancies
 - Promotes best-of-breed services

Web Services

"**Web services will be the catalyst for most innovation in the software industry over the next five years.**"

- Gartner

- **Empowers portal systems to deliver rich, integrated content from diverse resources.**
- **Enables the development of a services oriented architecture.**
- **Capitalizes on Industry Standards for Enterprise interoperability (SAML/WSRP/WDSL/UDDI).**
- **Will require enterprise approach for data/content standards.**
- **Provides foundation for Information/Knowledge Management.**

Transformations that must occur
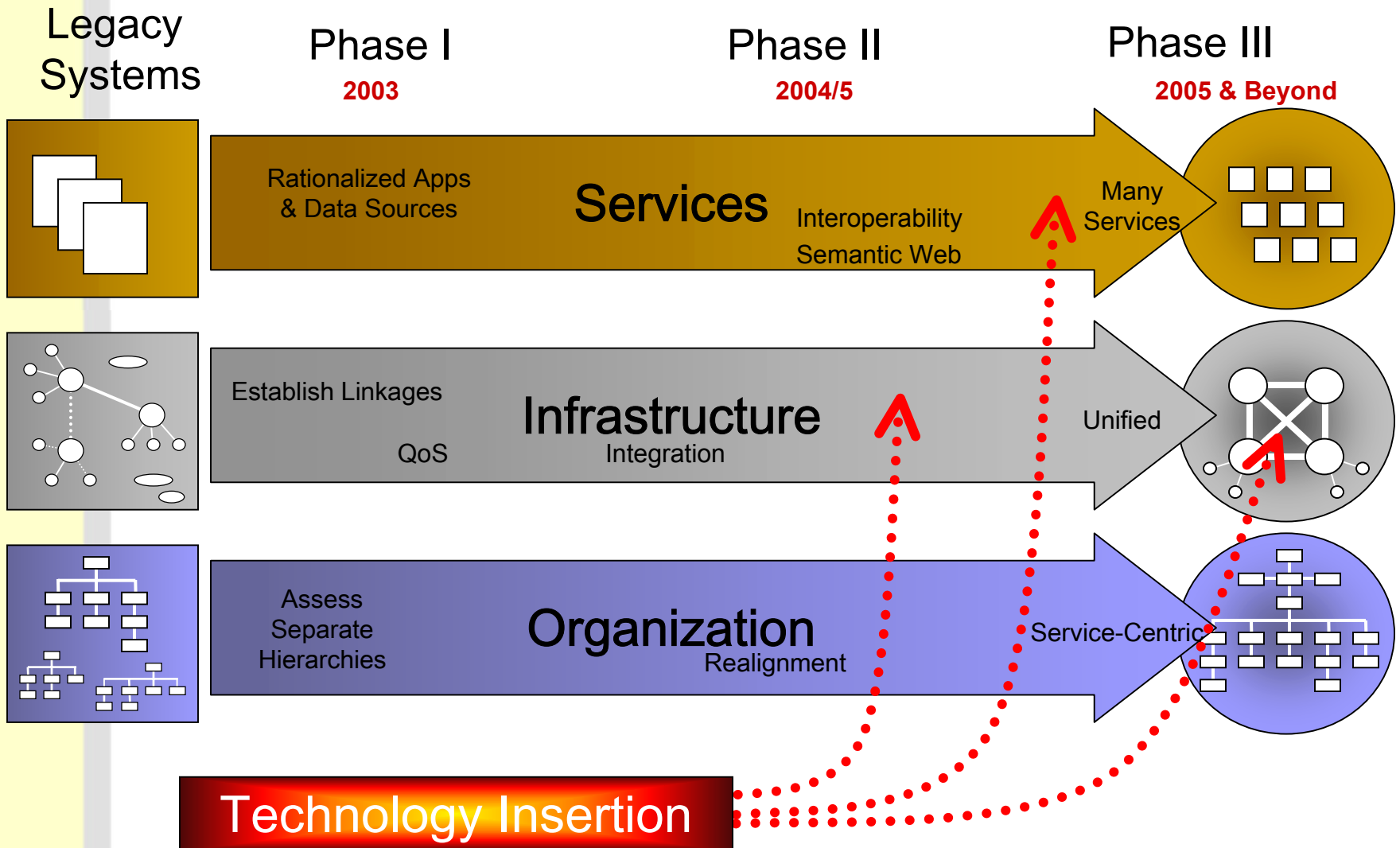
Constituent Portals

- The NMCP shall provide access to constituent portals:

  – Web Services must be registered in the NMCP Service registries.

  – Provide single sign-on to all web services, applications and authoritative data sources.

  – Access to constituent portals will occur only through the NMCP (after "reasonable time to integrate into NMCP").

  – Further development of constituent portals must incorporate NMCP integration and architecture.

Enterprise Requirements

- IT-21, NMCI, BLII & MCTDN network interoperability:
  - Common directory with replication of user objects
  - Common user authentication procedures
  - Common service registry schema with replication of service objects
  - Common service registration procedures
  - Common content management procedures
  - Network trust relationships for replication and synchronization
  - Shared hosting resources (ASP model)

NMCP System View
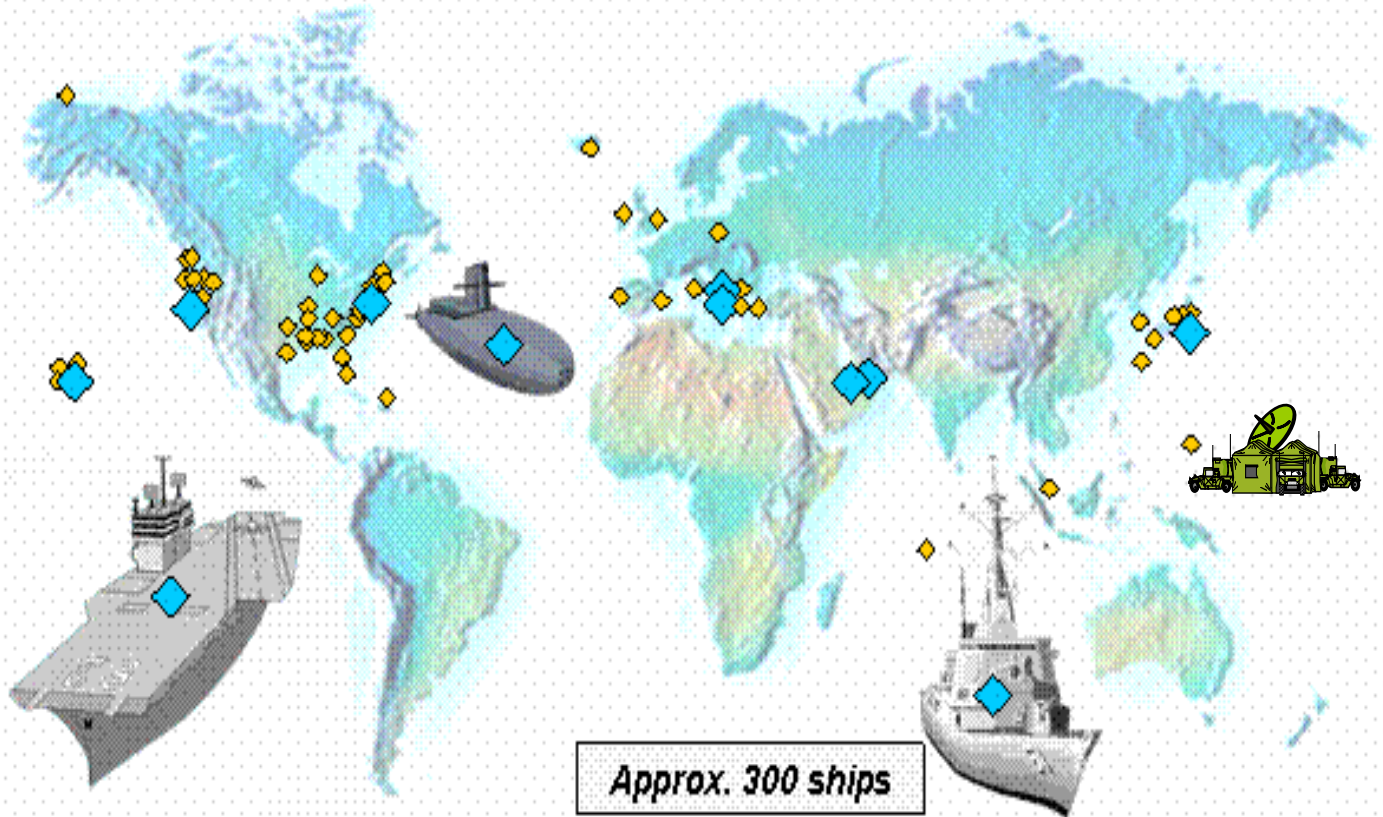
Approx. 300 ships

◆ Infrastructure Nodes   ◆ Remote Nodes (Without Infrastructure)

Questions?

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