Interoperability Opportunities

Jim Augins
ADSI
9/2/98
Interoperability Benefits

• Customer Satisfaction
  – Simplify efforts to discover, access and secure
  – Avoid incompatibilities

• Ease of use
  – Labor cost saving
  – Minimize duplication
  – Standard interfaces

• Coordinated capability / Cooperation
Interoperability Scope

- **MSRR / CMSRR**
  - DMSO Nodes
  - Service Nodes
  - Other Nodes

- **FUNCTIONALITY**
  - Discovery
    - Content based search
    - Registration
    - Catalogs
  - Access / Delivery
  - Collaboration
  - Security

- **POLICY**

- **INTERFACE**
Registration – User

- One stop registration
- Forwarding of registration profile
- Common subset of registration data
- Reciprocity of user registration
- Common username across MSRR’s & M&S Repositories (username synchronization)
- Mechanism for approving inter-service/agency registration
- Record keeping standards, archiving
- Common legal caveats, usage constraints
Registration – Resource

- Forwarding of registration data set
- Common subset of registration data
- Reciprocity of resource registration
- Common resource type nomenclature
- Link quality monitoring (hyperlinks) - access
- Common resource quality profile (mini subset)
- Record keeping standards, archiving policies
- Reciprocity of PAO approvals
- Common legal caveats, usage constraints
Registration - Site

- Configuration Requirements for interoperability
- Common Policies and Procedures
  - Security Issues
  - Currency Issues
- Physical Security
- Distribution of Security S/W Components
Search

- Standard policies/procedures wrt requesting & granting rights to index protected areas
- Standard mechanism for automating indexing access security
- Avoidance of duplication of indexing (cost$)
- One stop search across all M&S Repositories
- Minimize licensing costs
- Standard keywords and definitions
- Common Meta-data subsets
- Common MIME types (non standard)
- Common Meta-tag Scheme
Security

- Central Certificate Authority
- Common security policy/profile
  - Standard MOU/MOAs
  - Common security environments (SSL level)
  - Common policy (applets, Active X, Meta-tags)
  - Common virus checking standards
  - Common access constraints
  - Common policy for reuse/redistribution of protected resources
  - Common approach to signed documents
Security (cont.)

- Seamless navigation
  - Common username and password
  - Common password standards
  - Username deconfliction
  - Management of user access groups
  - Group access name deconfliction
- Transfer resource Meta-data & search index files to CMSRR
- Dial-in access to SIPRNET MSRR nodes
Collaboration

- Common one stop shopping (database access, user interface, security, mechanisms)
- Common MIME types
- Common meta-tags keywords (registry)
- Common browsers
- Plug-in library
- Net Meeting
- Channels standards
- Audio/video standards