

Our research in the **Cross Boundary Information Sharing (XBIS)** thread addresses technical issues in *Information Assurance* (e.g., new models of protection and trust management), *Information Management* (e.g., new ways to capture and discover information), and *Enterprise Architectures* (e.g., new ways to organize to support sharing). Ten projects address various aspects of the XBIS challenge. A **one-hour guided tour** (starting at **Thread Central** at **10 am** and repeated at **2 pm**) provides an overall orientation of the work being done in each technical area plus in-depth presentations by four projects. Please visit the remaining projects using the map provided (over).

Information Assurance

Tour IA-04 Security Guards for the Future Web

Security guards need to evolve to meet the information sharing needs of today's Web services and tomorrow's semantic Web. Web guards become key enablers for sharing information within network-centric operations.

Tour IA-07 Enterprise-Wide Security with Cryptographic Hardware Assistance

Commodity computers containing Trusted Platform Modules can be integrated with trust management protocols to facilitate secure information sharing across and between organizations.

IA-02 Controlled Information Sharing

Commercial digital rights management (DRM) technology can be adapted to meet the information-sharing requirements of flexibility, scalability, granularity, and tracking.

IA-08 Detecting Insider Threat Behavior

As more information is made available on the network, the damage that malicious insiders can do grows.

Information Management

Tour IM-05 Intelligence Sharing Across Boundaries

Facts and beliefs about the world, gathered piecemeal by distributed communities of users, can be more readily and effectively shared across organizational boundaries when encoded in emerging semantic Web technology.

IM-06 Peer-to-Peer Information Sharing Architecture

A distributed data sharing architecture based on peer-to-peer technology will empower users to publish, share, and discover information in concert with traditional systems of record.

IM-03 Intersystem Mappings for Netcentric Data Sharing

Netcentric data sharing aims to provide data visibility, understanding, and interoperability beyond traditional stovepipes.

IM-04 Exploring Algorithms/Techniques for Location-Based Publish and Subscribe

Specific techniques and algorithms for the automatic distribution of location-based information will enable edge-centric access to information in a highly decentralized environment.

Enterprise Architectures

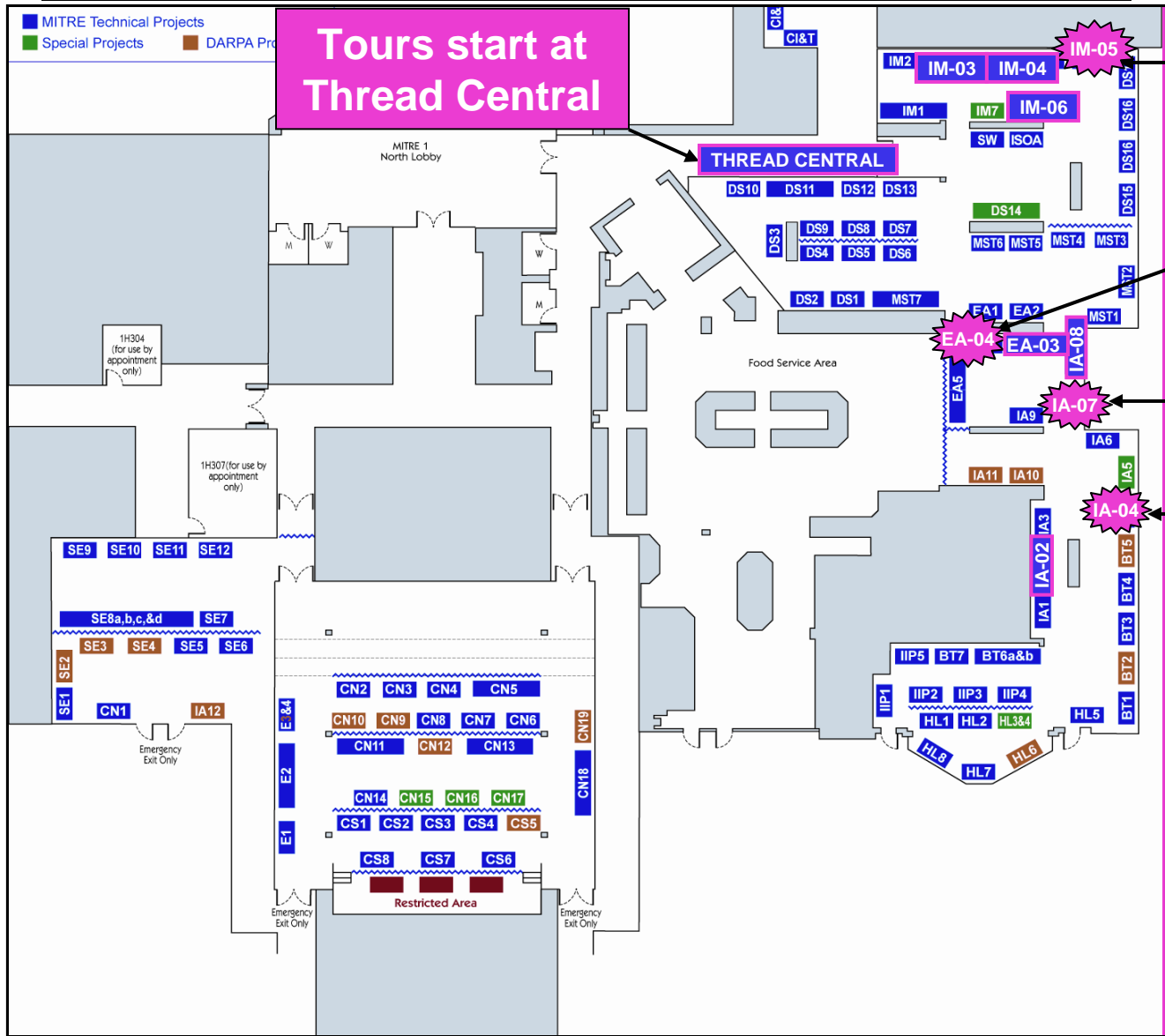
Tour EA-04 Multiagency Executable Architecture Case Study

An examination of the interoperability and information sharing challenges when multiple agencies with enterprise architectures based on different architectural frameworks must function together to accomplish a mission.

EA-03 Multiagency Enterprise Architecture Planning Framework

A next-generation mission-centric architecture aims to complement the enterprise architectures of agencies joined in mission or service activities.

XBIS: Cross Boundary Information Sharing Thread



Thread Tour

IM-05 Intelligence Sharing Across Boundaries

EA-04 Multiagency Executable Architecture Case Study

IA-07 Enterprise-wide Security with Cryptographic Hardware Assistance

IA-04 Security Guards for the Future Web

- Please also visit:
- IA-02** Controlled Information Sharing
 - IA-08** Detecting Insider Threat Behavior
 - IM-06** PISA: Peer-to-Peer Information Sharing Architecture
 - IM-03** Intersystem Mappings for Netcentric Data Sharing
 - IM-04** Exploring Algorithms/Techniques for Location-Based Publish and Subscribe
 - EA-03** Multiagency Enterprise Architecture Planning Framework