



Air Force Scientific Advisory Board

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Networking to Enable Coalition Operations Study Outbriefing



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The Need for Coalitions



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- **Coalition relations are an important instrument of foreign policy**
- **Coalition warfare is becoming increasingly important to the nation**
 - ✓ **The U.S. will almost always conduct operations as a member of a coalition of the willing, most often as the lead**
 - ✓ **The Global War on Terrorism will mandate diverse contributions and political support of non-traditional coalition partners**
 - ✓ **Coalition partners sometimes have capabilities the U.S. does not**
 - ✓ **Future force reductions may increase dependence on coalitions**
 - ✓ **Coalition support is essential for achieving the peace after combat operations**
- **In today's world, information is dramatically more important; Networks are the mechanism for sharing information**
- **Effective networking is based on trust developed through coalition training, exercises, and operations**
- **More effective use of coalition and treaty partners' capabilities will reduce U.S. ops tempo and improve effectiveness**

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NECO Study Charter

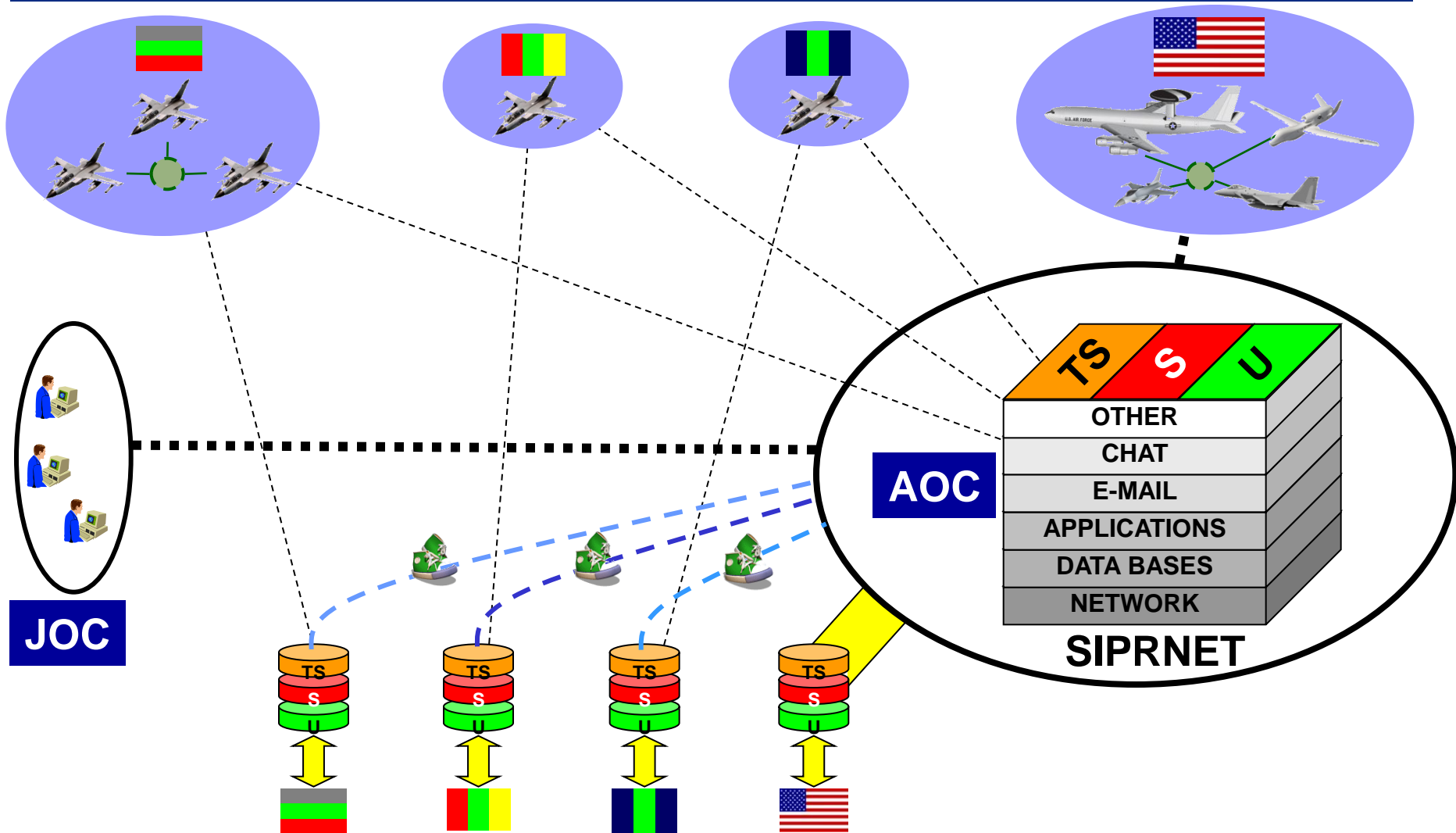
- Consider approaches for a **networked collaborative process**, and the systems that support it, to provide more effective coalition forces for future operations
- Suggest **technology releasability guidelines** for potential coalition partners
- Develop **guidelines for Operational Concepts** for a networked coalition
- Identify a set of **high payoff opportunities** for enhancing interoperability while maintaining a proper level of security among component systems
- **Propose a roadmap** for integrating or federating US and ally/coalition partner systems into a net-centric system-of-systems to enhance collaboration



Coalition Operations - Current State



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What the Warfighter Wants...



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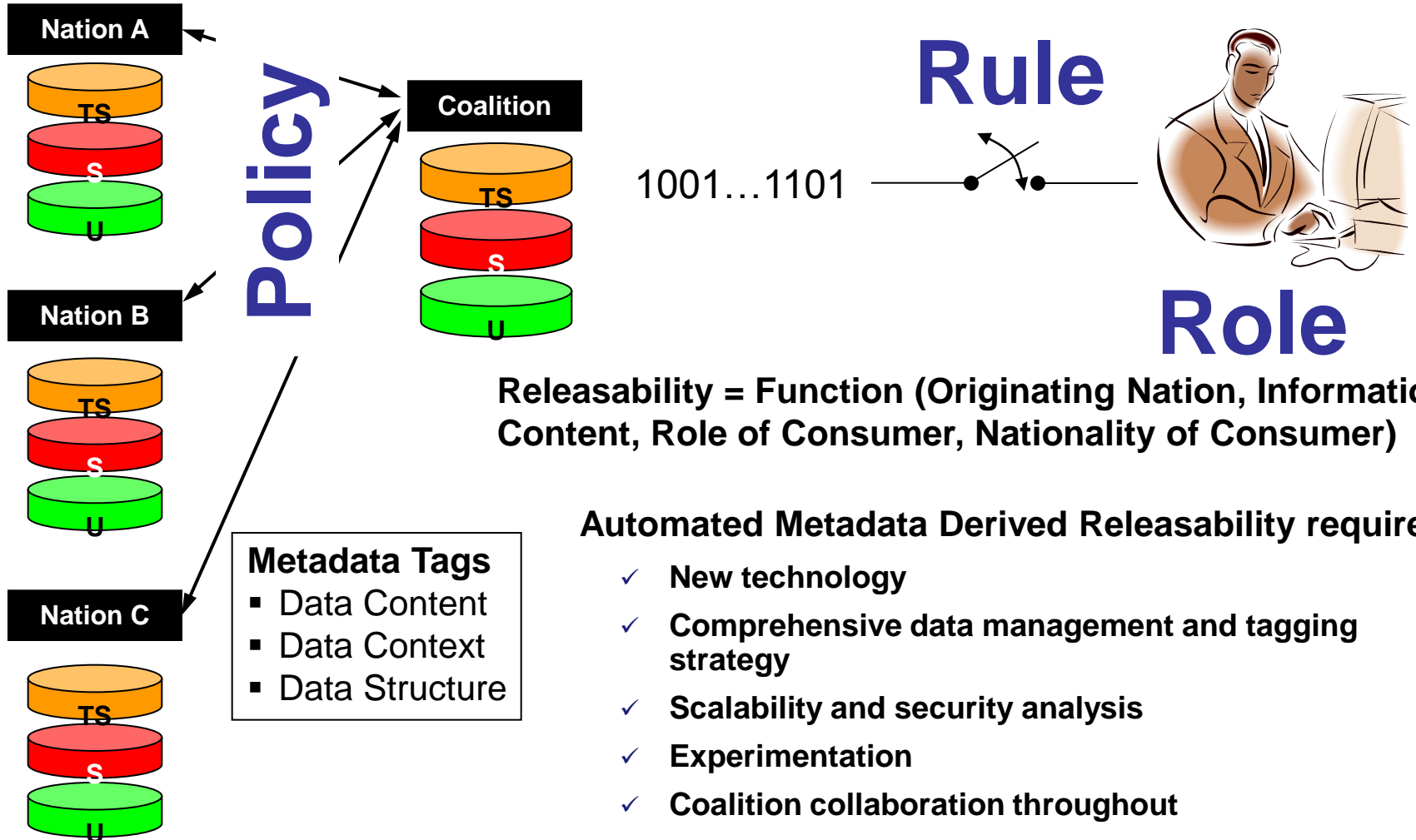
- **Every coalition member has access to the data they need to do their mission**
- **Coalition members are confident that the information they share will only be disseminated to the extent needed to support the mission**
- **Coalition members are able to collaborate with one another in real-time over secure systems (and, where appropriate, fill positions in the CAOC Weapon System)**



Concept for Future Coalition Operations Metadata Derived Releasability



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Automated Metadata Derived Releasability requires:

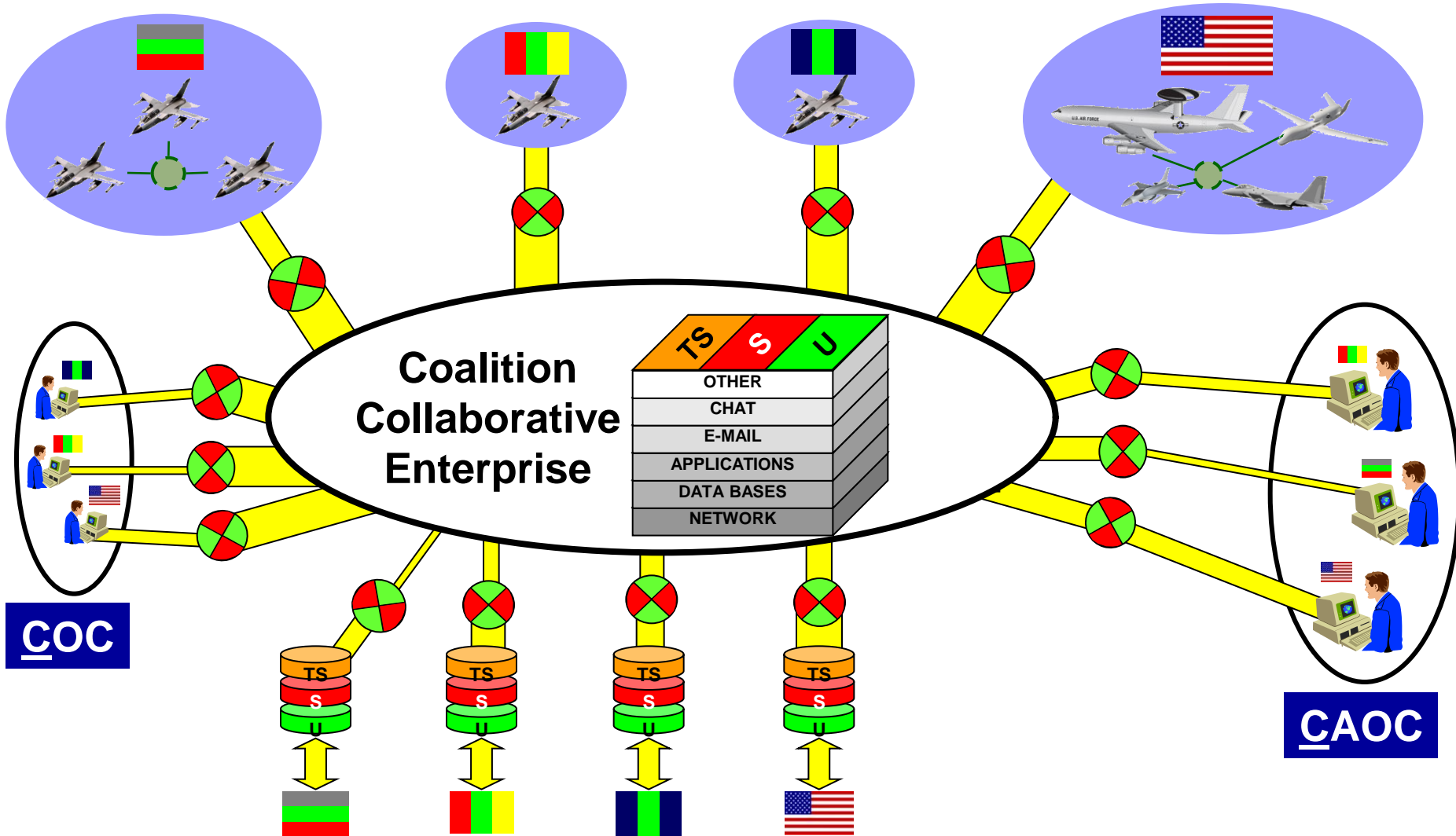
- ✓ New technology
- ✓ Comprehensive data management and tagging strategy
- ✓ Scalability and security analysis
- ✓ Experimentation
- ✓ Coalition collaboration throughout



Coalition Operations – End State



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Recommendations



TRAINING:

Aggressively promote and influence multi-agency system developments essential to effective coalition operations

OPERATIONAL CAPABILITIES:

Designate the “CAOC as a weapon system”

TECHNOLOGY:

Aggressively promote and influence multi-agency system developments essential to effective coalition operations

SYSTEMS:

Establish a distributed coalition network environment that will enable and encourage coalition nations to develop interoperable C2 systems



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