



*Partnership for Data Interoperability*

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*Integrity - Service - Excellence*

# ***Time-Sensitive Target Community Of Interest (TST COI)***



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Col John Rudolph  
Air Force C2 & ISR Center/CCT



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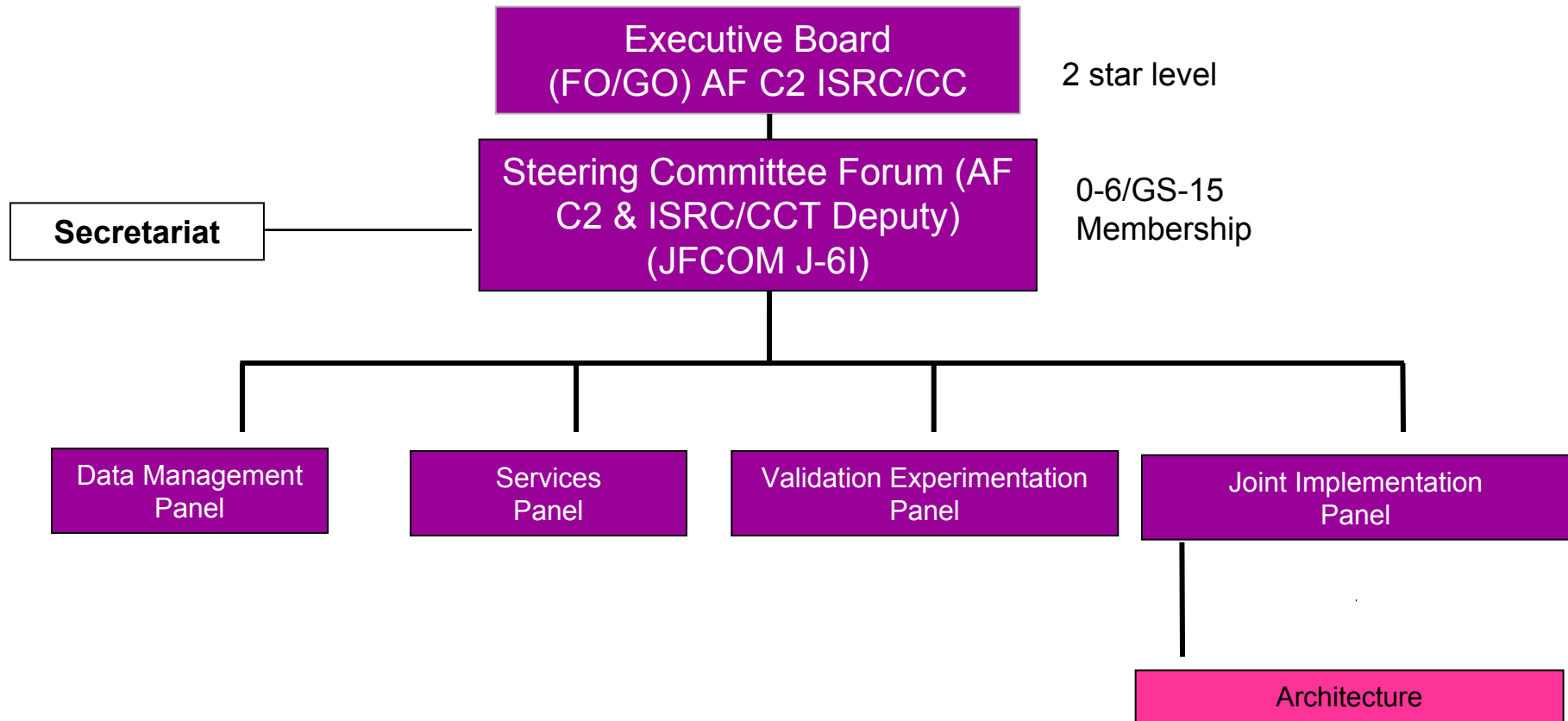
# *TST COI Purpose*

- **To establish an Time Sensitive Target information sharing capability, employing net centric applications and services, among the cadre of TST stakeholders**
- **The TST COI focuses on creating a common data vocabulary supporting net centric info sharing across the entire TST kill chain of activities (Find Fix Track Target Engage Assess, (F2T2EA)) for a complete target “Audit trail”**
- **Supports the discovery, accessibility and understanding of TST (and targeting) data for disadvantages and unanticipated Users**



# TST COI Organization Chart

## Supported 8 Feb





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# ***TST COI Pilot Purpose***

**Securely provide timely dynamic planning and execution (situational awareness) for TSTs and dynamic targets to both anticipated and unanticipated users (e.g. Joint, Coalition, Inter-agency)**

- 1. Cross Service Weapon-Target Pairing (XSWTP)**
- 2. Expose WEEMC Mission Managers (not static) showing activities TST Cells are executing to disadvantaged users**
- 3. Join Target Management (JTM)**



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# *Pilot Scope*

**Exposing data as a web services to provide information for better SA and TST support to a wider audience in theater to include disadvantaged users**

**Data Sources: WEEMC/JADOCS-NC + (POR / SORs)**

- **AFATDS, C2PC, NFCS, TBMCS**
- **SIPRNET Domain**
- **Participating COI member organizations:**
  - **AF: ACC A2X, AFC2&ISRC (TBMCS)**
  - **USN: Navy NETWARCOM, SPAWAR (NFCS)**
  - **USA: Army G-3 (ABCS, AFATDS)**
  - **USMC: MARFORSCOM/G2 (C2PC)**

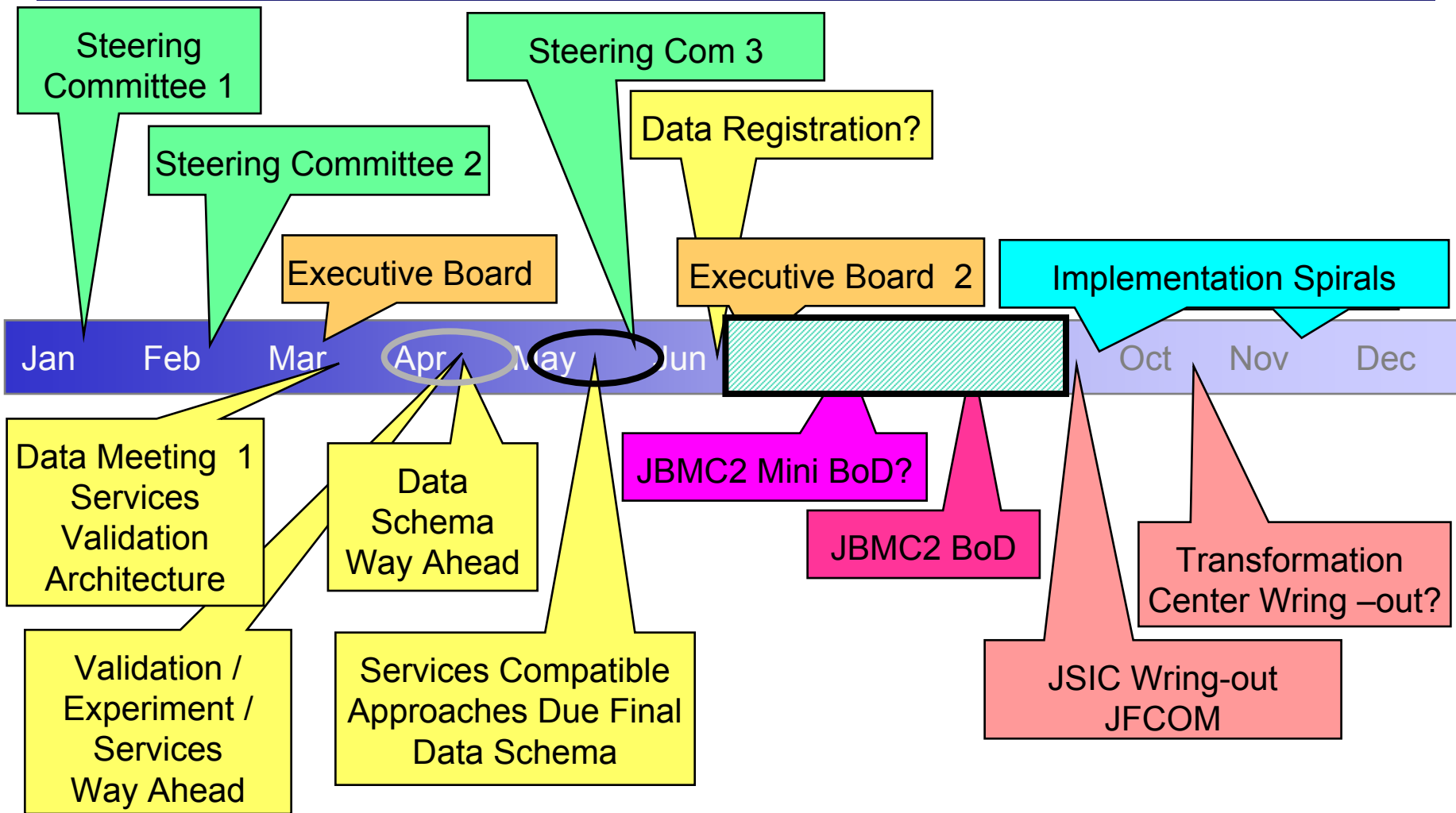
**OPR: Colonel John Rudolph, AFC2ISRC/CCT**



# TST COI POA&M 2006

As of 23 Feb 06

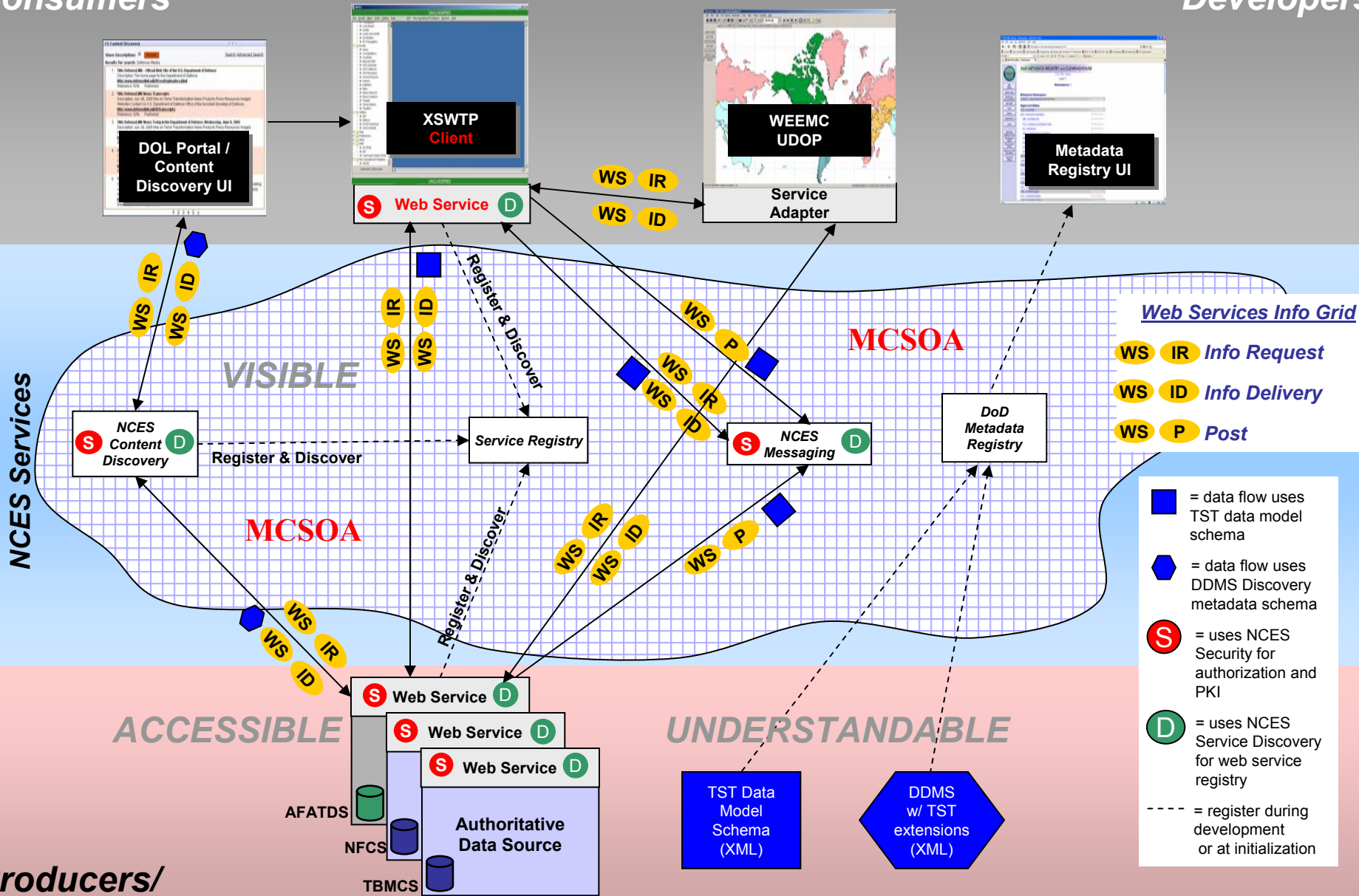
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# TST COI XSWTP Info Service Interoperability

Consumers

Developers

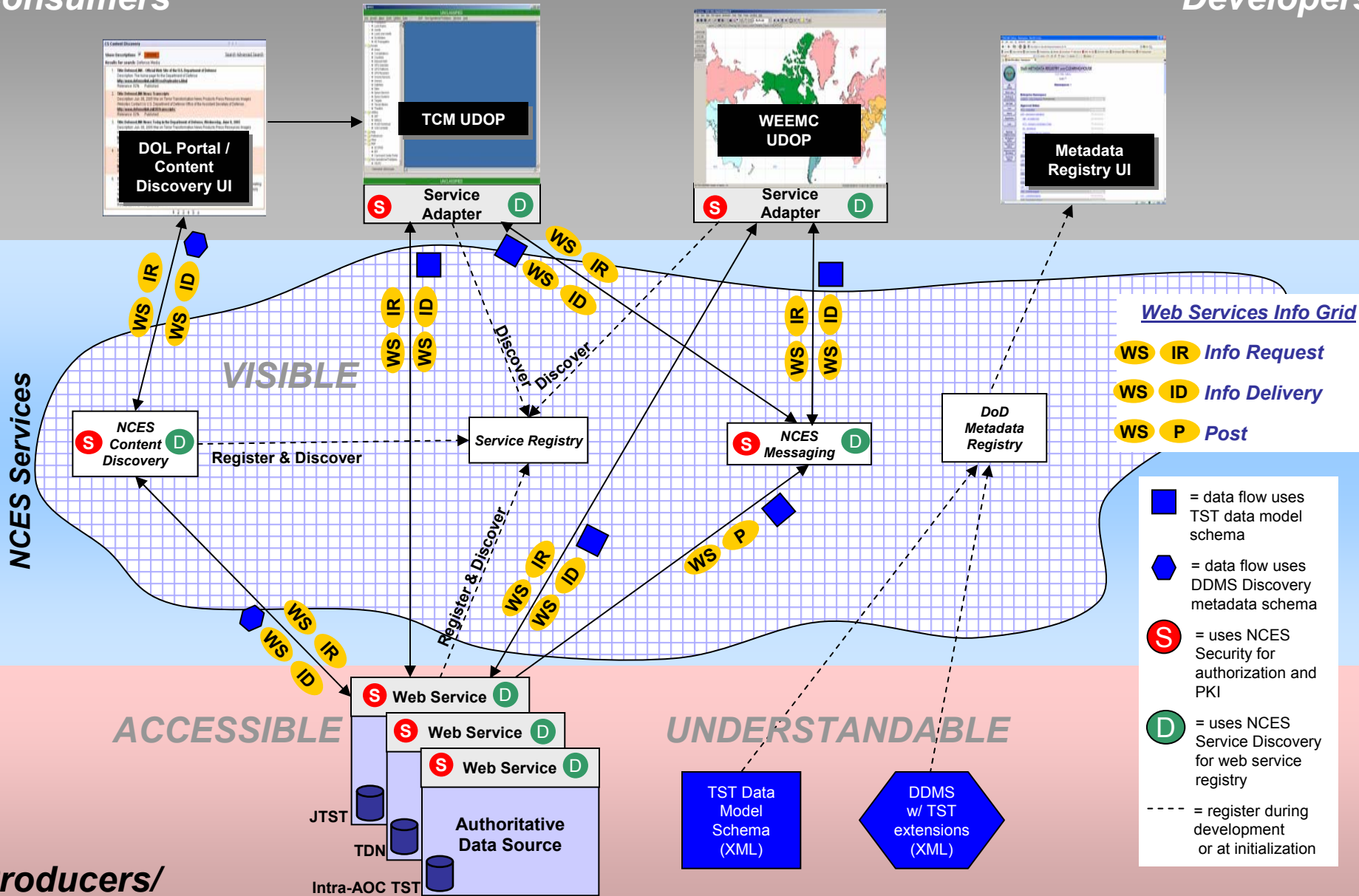


Producers/  
Developers

# TST COI WEEMC Mission Manager Availability

Consumers

Developers



Web Services Info Grid

- WS IR Info Request
- WS ID Info Delivery
- WS P Post

- = data flow uses TST data model schema
- ⬡ = data flow uses DDMS Discovery metadata schema
- S = uses NCES Security for authorization and PKI
- D = uses NCES Service Discovery for web service registry
- = register during development or at initialization

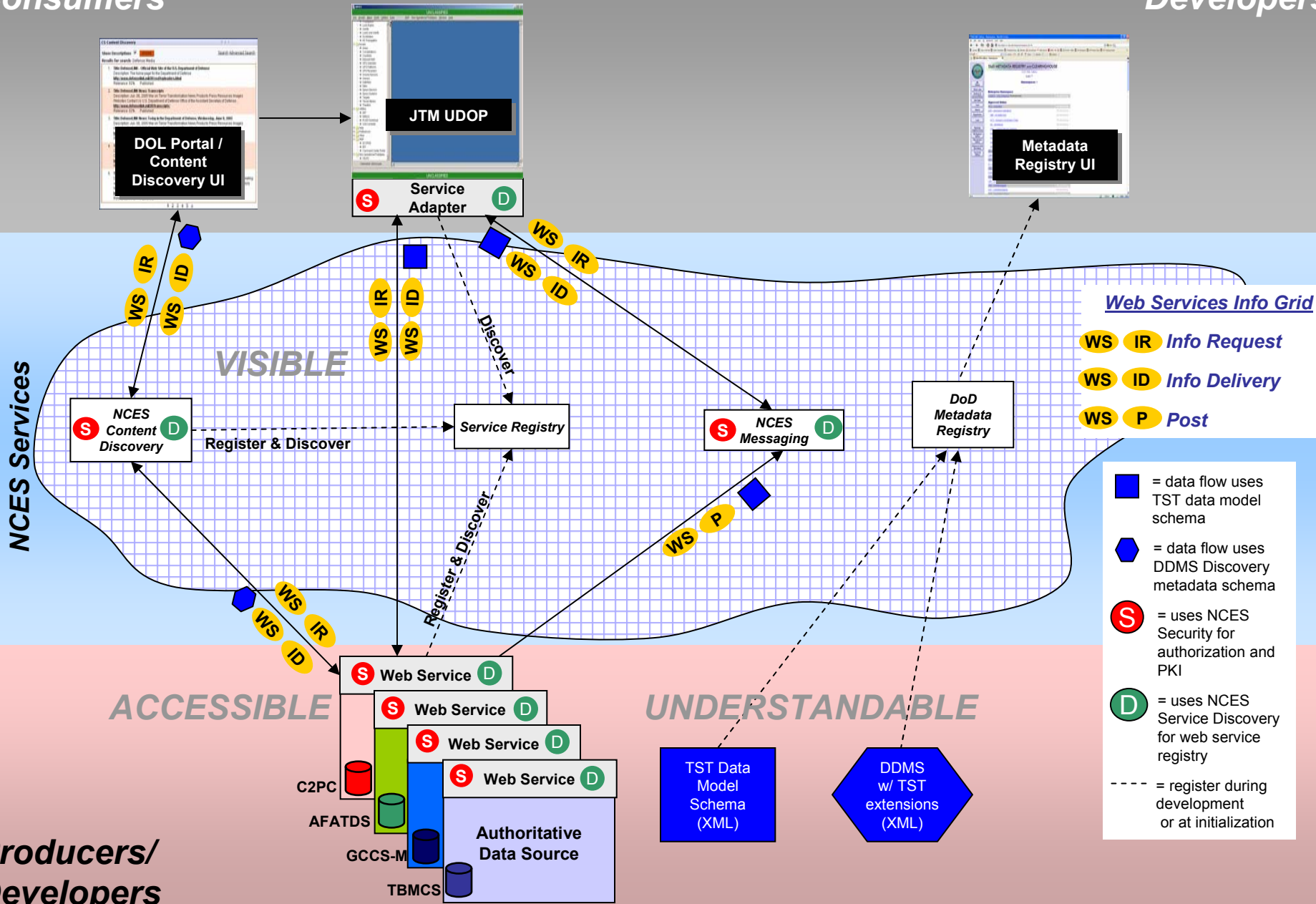
Producers/  
Developers



# TST COI JTM Service Info Sharing

Developers

Consumers



Producers/  
Developers



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# *TST COI Pilot Metrics*

- **Metric assessment underway**
- **Reviewing changes, impacts to PORs/SORs supporting the TST COI**
  - **AFATDS, TBMCS, NFCS, C2PC**
- **Examining initial and incremental costs of Web Svcs to support TST Execution for PORs**
- **Planning for User assessment of TST Net Centric capabilities during Exercises (Terminal Fury) & Labs (Transformation Center, Joint Systems Integ. Ctr.)**
- **Determining Level of Effort for Data, Vocabulary buy-in by Military Services.**
- **Review Core Enterprises System support**

**OPR: TST COI Secretariat (Colonel Rudolph, Mr. Park, Mr. Coleman, Dr. Beardsworth)**



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# COI Resources

- **Resource shortfalls, impacts, and risk: Still scoping**
- **Risk mitigation in Exercises, Experimentation**
  - **Assessing costs, maturity of three spirals in parallel**
  - **Assessing support from SORs/PORS required**

OPR: TST COI Secretariat (Colonel Rudolph, Mr. Park, Mr. Coleman, Dr. Beardsworth)



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***Questions ?***





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# *XSWTP Pilot Purpose*

- **To demonstrate availability of weapon-target pairing information to all WEEMC users and authorized unanticipated /disadvantaged users through a TST COI UDOP by making AFATDS, TBMCS, and NFCS advertise their data as a web service implementing the TST agreed-upon vocabulary.**



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# ***WEEMC TCM Pilot Purpose***

- **To demonstrate availability of task coordination information to all WEEMC users and authorized unanticipated/disadvantaged users through a TST COI UDOP by making JTST, TDN, and Intra-AOC TST advertise their data as a web service implementing the TST agreed-upon vocabulary.**



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# ***JTM Pilot Purpose***

- **To demonstrate availability of target list information to all WEEMC users and authorized unanticipated /disadvantaged users through a TST COI UDOP by making C2PC, AFATDS, GCCS-M, and TBMCS advertise their data as a web service implementing the TST agreed-upon vocabulary.**





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# *Pilot Description*

**Data Services: Focus on disadvantaged theater TST consumers that may not have access to JADOCs/WEEMC/JADOCs-NC to enable monitoring, participation in on-going TST theater actions**

**OPRs: Colonel Charles Murray, Capt Harriet Campbell, AFC2ISRC/A6**



# *Data / Vocabulary Panel*

- **Develop required XML Tags, Schema, Ontologies etc. to support**
  - **Register TST Metadata in “appropriate” DoD / AF / Service repositories for immediate use**
  - **Coordinate vocabulary development w POR, Info Services Panel**
  - **Employ M2M\* information transfer for TST activities as much as feasible**
  - **Extend the information as on-demand information to a many-to-many operator net for TST information**
- \* Machine to Machine

**OPR: Col Charles Murray/ Capt Harriet Campbell, AFC2ISRC/A6**



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# *Information Services Panel*

- **Develop the actual web / information services in conjunction with POR/SOR representatives & DISA's Core Enterprise Services.**
- **Coordinate hosting, web certification, registration requirements.**
- **Examine the TST Business Processes for additional web service spirals**
- **Work with panels to ensure spiral sequencing based on maturity.**
- **Wring out Info Services during exercises, experiments and in facilities, labs, centers.**

**OPR: US Army POC TBD/ESC/Tom Powis/Dr. Tim Rudolph**



## *Validation / Demonstration Panel (formerly Pilot)*

- **Orchestrate spirals entry and testing into experiments, exercises, and Facilities (USAF Transformation Center, Joint Systems Integration Group)**
- **Monitor Data & Service Panel progress**
  - **Coordinate Pilot Spirals vocabulary, schema, ontologies, etc. for registration within and outside of working groups**
- **Coordinate with Implementation Panel for scheduling POR/SOR related events and activities**
  - **Software Freeze, Testing, Fielding etc.**

**OPR: AF Transformation Center Col Chris Moore**



# *Implementation Panel*

- **Coordinate with other TST COI Panels to effect fielding actions SOR/POR**
- **Coordinate with other Panels to keep an accurate POA&M of actions leading to Fielding**
  - **Work with Validation / Experimentation to determine optimal timing for tech. insertion**
  - **Work with SORs/PORs to determine “Drops” based on SOR/POR Readiness**
- **Act as liaison for other collateral COIs affecting targeting issues**
  - **(ISR, Targeting, Air & Missile Defense etc.)**

**OPR: USN POC, TST COI Secretariat, Mr Coleman, Mr. Park**