Big Data for Government Symposium
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Civil Information Integration in support of the US Government

Government Big Data Symposium
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Disclaimer

This presentation represents my views and does not constitute the official position of the DoD CIO or the US Government.
People at the grassroots level already produce reams of reports and are willing to share them. Little of what they write, however, reaches Afghanistan’s five regional commands, and even less reaches top decision-makers and analysts in Kabul and beyond. Some reports remain trapped at the ground level because of a lack of bandwidth, while others get pushed up only to be “stove-piped” in one of the many classified-and-disjointed networks that inevitably populate a 44-nation coalition. But even where there is a commonly available network, such as the unclassified Internet, little from the ground level in Afghanistan reaches a central repository where customers who need information can access or search for it. Instead, vital information piles up in obscure SharePoint sites, inaccessible hard drives, and other digital junkyards.
Coordination
Unclassified Information Sharing Service
Integration of Data

• Incorporating the use of Enterprise Service Bus technologies in conjunction with a library of Web services into the Unclass Environment

• Analysts engaged in Cooperative Security and Building Partner Capacity now have live authoritative data sources in addition to all of the other tools within APAN.

• USD(AT&L) RFO has overseen the CS JCTD and the RDA JCTD that implements this approach
Whole Of Government Environment

• This can become the platform of choice for the USG as an enterprise for the Whole Of Government approach

• Provides a common place for DoD and other Departments and Agencies to Meet, plan, and respond

• Provides a bridge from the “dot gov” and “dot mil” to the “dot org”
  The vision is to create the nexus between the USG and all other mission partners for StabOps, HA/DR, Theater Security Cooperation and other operations.
Coping with a downsized military

• There will be deep reductions in contractors, officer, and NCOs on staffs

• How will the analysis get done? We have to shift the cognitive burden to the Machine.

• Leverage the UISS and improve it
  • Add a Big Data Warehouse component
  • Implement Web 2.0 through Resource Description Framework, and OWL
  • Employ Big Data best practices such as Predictive Analytics, Data Visualization,
  • Tailor Business Intelligence tools to better map to military needs to improve
    Situational awareness, planning, and coordination.
  • Employ agent based technologies to improve analytics
  • Use the UISS as the medium to effect NIEM-based exchanges across the USG
Questions
INFANTRY
THIS SUCKS.

RANGERS
I LIKE THE WAY THIS SUCKS!

SPECIAL FORCES
I WISH IT WOULD SUCK MORE!

AVIATION
SURE SUCKS DOWN THERE!

AIR FORCE
WHAT?! CABLE'S OUT! THIS SUCKS!
The meaning of "secure that building" in different branches of the military:

If you told Navy personnel to "secure that building," they would turn off the lights and lock the doors.

Army personnel would occupy the building so no one could enter.

Marines would assault the building, capture it, and defend it with suppressive fire and close combat.

Air Force personnel would call Re/Max to take out a three-year lease with an option to buy.
Semantic Web

- Sir Tim Berners-Lee
  - “a web of data that can be processed directly and indirectly by machines”

- Establishes a common framework to enable data sharing across multiple systems in an open format.
  - RDF – Resource Description Framework

An ability to analyze content relationships can expand content utility far beyond original items.
Joint Information Environment (JIE)

- Defensibility/Redundancy/Resiliency
- Federation/Shared Infrastructure
- Enterprise Services
- Identity Access Management (IdAM)
- IC/Mission Partners

Access at the Point of Need