Appreciation

- USGIF Demo Subcommittee
- NGA
- Open Geospatial Consortium
- Pacific Disaster Center
- Lead Dog
- Carbon Project
- Tildenwoods - Centrifuge
- TerraGo Technologies Inc.
- BBN Technologies
- Custom Weather
GEOINT Demo Scenario

- Powerful tsunami strikes Indian Ocean Basin
- Banda Aceh, Indonesia hit hard
GEOINT Demo Scenario

- US responds to tsunami disaster with massive relief effort
- President George Bush asks former Presidents George H.W. Bush and Bill Clinton to coordinate US efforts
- Bush and Clinton travel to Indonesia
GEOINT Demo Scenario

• George H. W. Bush and Bill Clinton arrived in Indonesia...
• TODAY!
GEOINT Demo Scenario

• George H. W. Bush and Bill Clinton arrived in Indonesia...
• Naturally things went wrong...
• But GEOINT got things right...
Where are the Services?

25 Servers
10 Vendors
100s of Data Sources
Demo Flow

- Each time analysts perform an operation they are accessing multiple OGC Web Services

- Planning for VIP Visit
- VIPs Arrive; Execute Plan
- Motorcade proceeds; Evacuate VIPs
- Defeating Threats; Saving Lives

SECURING FREEDOM
Defeating Threats, Saving Lives
Services Architecture for GEOINT
Simple + Powerful

Registry

Common Services Framework
- HTTP, XML
- ISO 19128, ISO 19115, 19139
- ISO 19119 (Services Metadata)
- OGC Context, WFS, WCS, SLD
- Geography Markup Language (GML)
- OGC Catalog Interface
- EPSG Coordinate Database
- GEOTIFF, JPEG, PNG, others
- JPEG 2000
- WSDL, SOAP, UDDI
- JSR 168

Based on Standards Listing For National System for GEOINT

SECURING FREEDOM
Defeating Threats, Saving Lives
Focus on Key Standards for GEOINT Services

Data Content Specifications
- ISO/OGC Web Map Server
- ISO/OGC Web Feature Server
- OGC Web Coverage Server
- OGC Catalog Services
- ISO/OGC Geography Markup Language
- ISO 19115 (Metadata for GEOINT)
- Coordinate Referencing
- ISO JPEG2000
- Open Database Connection (ODBC)

Web Services Description Language, Simple Object Access Protocol, eXtensible Markup Language, Hypertext Transfer Protocol, Others (.NET, J2EE)

SECURING FREEDOM
Defeating Threats, Saving Lives
Focus on key standards to enable the National System for Geospatial-Intelligence Strategic Direction, speed transformation and provide the ‘biggest bang for the buck’ for the NSG Community and the warfighter.
Success Through Standards

- Multi-Vendor
- Mission Focused
- Interoperable

....This is a Huge Success
Sponsors

United States Geospatial Intelligence Foundation

National Geospatial-Intelligence Agency

OGC™
Open Geospatial Consortium

Securing Freedom
Defeating Threats, Saving Lives