USAF GeoReach

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ACC Expeditionary GeoBase
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Agenda

- Background
- Components
- Concept of Operations
- Operational Scenario
- OIF Support
- HLS Support
- DoD Architectures
A Global Mobility Task Force capability

Blends intelligence, logistics and CE to pre-plan the forward base layout

GeoReach delivers “one map” of the forward operating location (FOL)
  - Enables planning decisions to be made without putting boots on the ground

400+ forward sites mapped by GEOREACH teams since 2001
GeoBase/GeoReach Definitions

Common “Off-the-Shelf” Tools
- Global Positioning System (GPS)
- Remote Sensing (Imagery)
- Computer Aided Design/Drafting (CADD)
- Geographic Information System (GIS)

Tabular Data
Map Data

GEOBASE
GEOREACH

Home Base
Deployed Location

Integrated Common Installation Picture for all Users
GeoBase Program Components

Garrison GeoBase
Major Installation BOS
Minor Installation BOS
Local Vantage Point

Strategic GeoBase
Base Realignment & Closure
Deliberate/Crisis Planning
Global Vantage Point

Operational Domain

Decision Domain

Expeditionary GeoBase
FOL BOS
Deployment Phase
Local Vantage Point

GeoReach
Pre-Deployment Phase
Deliberate/Crisis Planning
Global Vantage Point
Concept of Operations

- **Locate** the optimal or most practical sites to deploy to
- **Collect** the best available image and tabular data
- **Assess**—develop 80% beddown planning solutions
- **Web-Enable** the information for all planners to use
Why GeoReach?

Basing deficiencies in recent contingencies:
- No prior site knowledge to optimize basing
- No beddown pre-plans
- Poor parking plans required some units to return to home bases
- Poor beddown plans caused excess resources to be airlifted

Government Accounting Office (GAO) review (01-481) of 1999’s Air War Over Serbia (AWOS) Basing Strategy--GAO to EUCOM:
- Develop aircraft basing strategy tied to future threats
- Maintain a database of complete information on AOR airfields
• Provided airbase securing forces (Contingency Response Groups) with potential seizure site imagery and related feature data

• Provided airbase recovery forces (Airborne RED HORSE) with airfield support and obstruction data

• Allowed deploying assets to be prioritized maximizing use of limited airlift assets
OIF Support
Information for Deploying Forces

- Web based data source for 400+ forward locations
- Pavements, facility, and utility support data
- Links to local threat intel
GeoReach 3-D Visualization
Enhanced Planning Situational Awareness
• AF Homeland Security CONOP calls for “integrating efforts to prevent, protect against, and respond to threats to our homeland”

• HLS requires “Mapping for Situational Awareness”
  – “Rapidly access a single, shared Common Installation Picture depicting current installation facilities, infrastructure, and base approaches from any networked USAF-accessible ‘node’ thereby increasing situational awareness and enhancing other HLS capabilities” para 8.6, AF Homeland Security Capabilities List
GeoBase in Action
What GeoBase means to AT/FP

Barrier Plans

AT Standoff Distances

Officer's Club (531)

Legend

Buildings
MAZD
Media P32 A2CCZ Zones
0 dB
75 dB
AFZ Zone

Minimum Antiterrorism Standoff Distances
GeoBase in Action
What GeoBase means to you

• What is it?
• Where is it?
• What’s around it?

Detailed information supports Emergency Response Decisions

Visualization

Rapid Access

Detailed Analysis
Leverage DoD Architectures

- DISDI
  - DoD Integrated Geospatial Data and Capabilities
  - Blue/Purple Force Imagery/Infrastructures
- SDSFIE
- FGDC Metadata Standards
- COTS-based
- Joint Command and Control System
  - Global Command and Control (GCCS-AF)
  - Joint Engineering and Planning Execution System (JEPES)
QUESTIONS?

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