



Expeditionary Installation Geospatial Information and Services (EIGI&S) in the CENTCOM AOR

USAFCENT
Expeditionary GeoSpatial
Information Office



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▶ **CENTAF GeoSpatial Information Office**

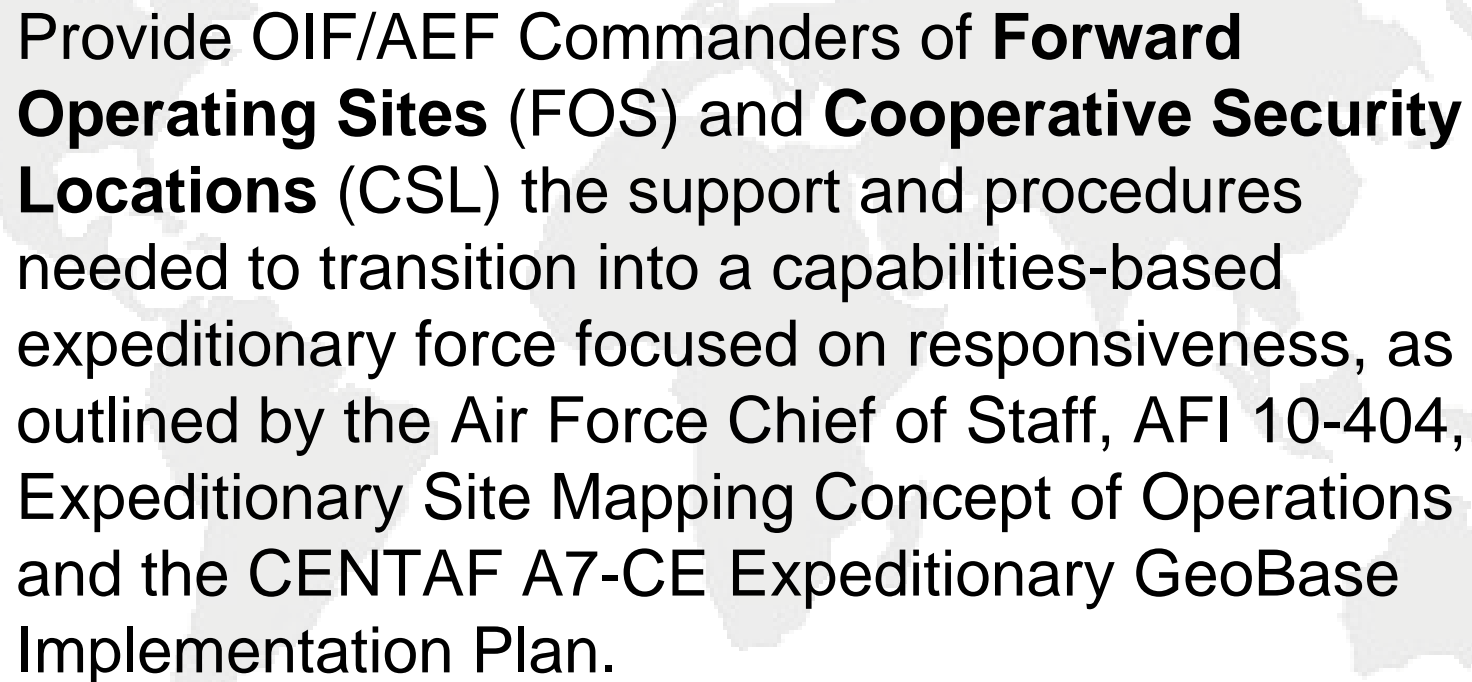
Expeditionary Installation Geospatial Information and Services (EIGI&S) in the CENTCOM AOR provides the Department of Defense cartographic data and analysis to assist the mission "To Project Decisive Air and Space Power for USCENTCOM and America." As part of this mission, AFCENT A7 EIGI&S (GeoBase) is tasked to support deployed personnel via technology and infrastructure. Air Force Portal users access this information through Enterprise GIS services which represent the collective efforts of ACC personnel from Headquarters down to the deployed Air Force GeoBase Technicians. This discussion will interest GIS users from many disciplines including defense and intelligence.

Overview

- Mission Objective
- CENTCOM Area Of Responsibility (AOR)
- AFCENT-Who we are
- AFCENT Support Staff
- Directives/Guidance
- Expeditionary GeoBase Process Model
- Field Collection Devices
- Data Management
- Air Force Portal
- Future Objectives

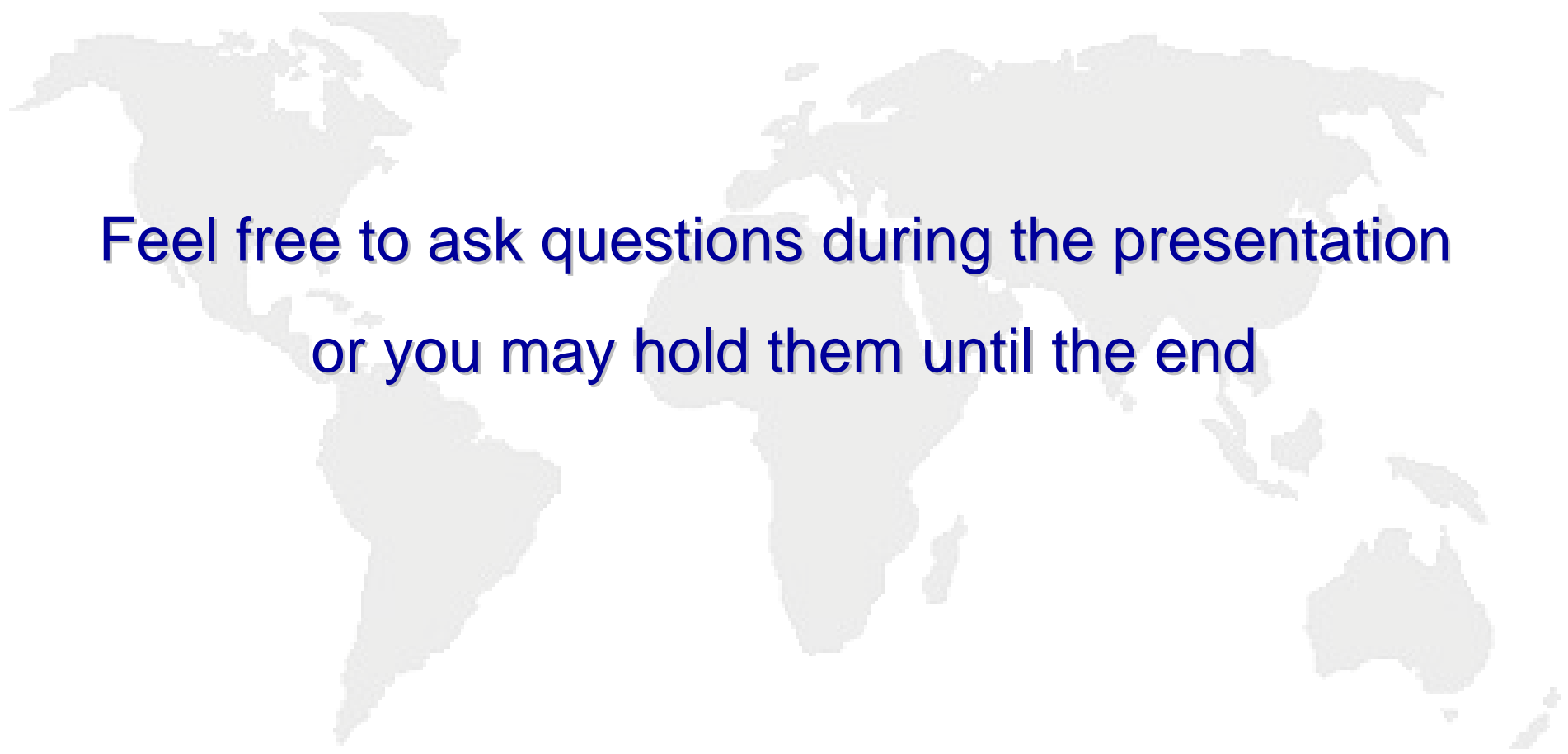


Mission Objective



Provide OIF/AEF Commanders of **Forward Operating Sites (FOS)** and **Cooperative Security Locations (CSL)** the support and procedures needed to transition into a capabilities-based expeditionary force focused on responsiveness, as outlined by the Air Force Chief of Staff, AFI 10-404, Expeditionary Site Mapping Concept of Operations and the CENTAF A7-CE Expeditionary GeoBase Implementation Plan.

► Questions?



Feel free to ask questions during the presentation
or you may hold them until the end

► AFCENT –Who We Are

- Located at Shaw Air Force Base, South Carolina, the 9th Air Force is the headquarters for U.S. Central Command Air Forces (USCENTAF) and serves as the air component for a 27-nation area within the U.S. Central Command (USCENTCOM) area of responsibility. The 9th Air Force is also an intermediate headquarters under Air Combat Command and is responsible for five active-duty flying wings, as well as overseeing the operational readiness of 18 designated units of the Air National Guard and Air Force Reserve.



▶ CENTAF IGI&S Management Team

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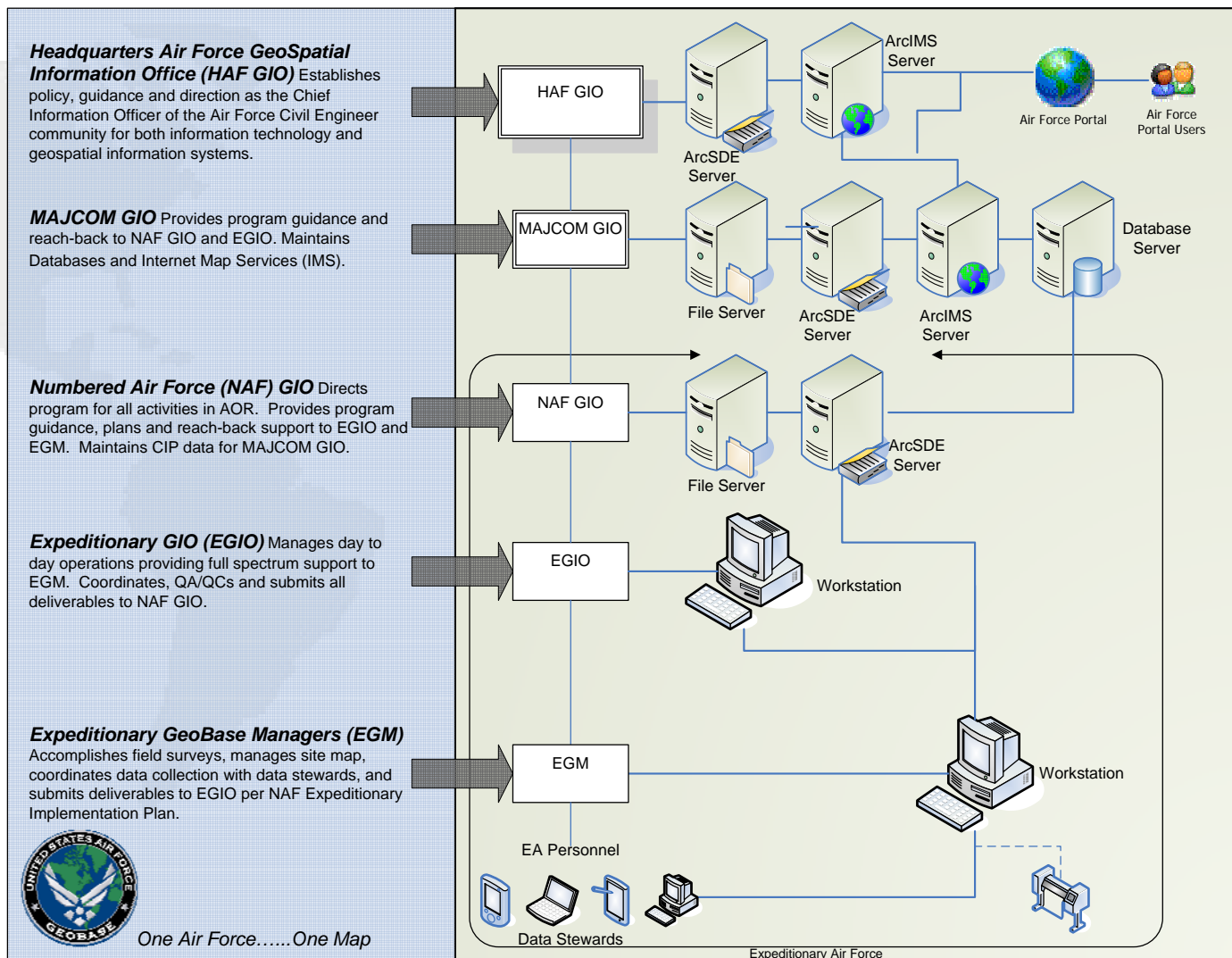
DSN 965-8847

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Directives/Guidance

- AFI 10-404 Base Support and Expeditionary Site Planning (09 Mar 2004)
- AFI 32-10112 Installation Geospatial Information and Services (Installation GI&S) (19 Oct 2007)
- Expeditionary Site Mapping Concept of Operations (ESM CONOPS) 01 Apr 04
- *CENTAF GeoBase Policy Memorandum (20 Jan 2006)*
 - ***CENTAF A7-CE Expeditionary GeoBase Implementation Plan***

Expeditionary GeoBase Process Model



► Field Collection

- **Trimble 5700 RTK GPS**
- **Accuracy** : centimeter accuracy
 - **Primary Purpose: roadway construction, tent construction building location.**





Field Collection



► Surveying Tools Mapping Grade GPS

- **Trimble GeoXT**
- **Accuracy** : Sub-meter 30mm (post processed)
 - Primary Purpose:
Expeditionary surveying of airfield areas during assessments



► Data Management

- **Desktop Software**

- ESRI ArcGIS 9.2 SP4
 - PGDB Format
- Autodesk AutoCAD Map 2007(8) 3D
- Trimble Geomatics Office

The Autodesk logo is displayed in a large, blue, sans-serif font. The letters are bold and have a slight shadow effect. A registered trademark symbol (®) is located at the end of the word.

► Data Management

- **AOR Maintained Data**

- Geometry and Attributes
Tracked by CENTAF IGI&S
 - Monthly Retrieval
 - QC Process
 - CIP Checker in Redevelopment
- Data Load
 - Migrating into SDE from PGDB

- **Reachback/GeoReach Maintained Data**

- Raster Data is monitored and updated stateside



▶ **AFCENT on the AF Portal**

• **Map Services**

- Up-to-Date picture of what's on the Ground
- Presented using a light-weight GeoViewer
- Access for all Portal Users
- Secure Map
 - Limited access to sensitive content
- Designed to Facilitate Access to Data by the General AF Public
- Mike Cannon webadmin (HQ ACC)

▶ Visit us on the AF Portal

<https://www.my.af.mil>

Keyword 'CENTAF Geospatial'

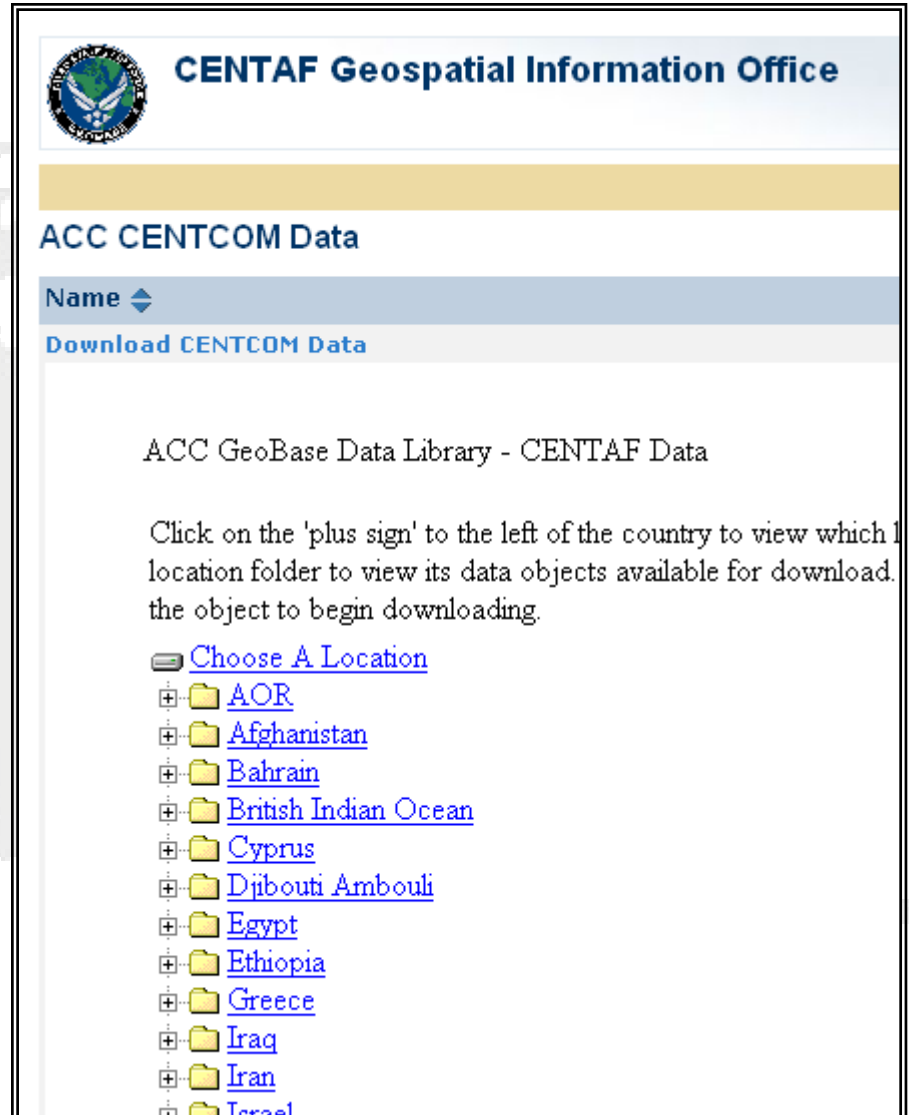



The screenshot displays the CENTAF Geospatial Information Office website. At the top, the logo and name of the office are visible, along with the address: 524 Shaw Drive, Ste. 138, Shaw AFB, SC 29152. A "SET AS MY DRG" button is present in the top right corner. Below the header, the text "CENTCOM GeoViewer" is displayed. The main content area features a paragraph about EGMs and a link to the Advanced GeoViewer. A second paragraph provides instructions on how to report performance issues. Below this, there is a navigation bar with "Advanced Viewer | ACC GeoBase | Help" and a set of zoom and pan controls. The central part of the screenshot is a satellite-style map of the Middle East and surrounding regions, including Iraq, Afghanistan, and the Persian Gulf. Several airbases are marked with red stars and labeled: KIRKUK, AL SAHRA, BAGHDAD INTL, TALLUL, KUWAIT INTL, ALU AL SALEM AB, ALUDEID, PRINCE SULTAN AIRBASE, AL DHAFRA, ABU DHABI INTL, BAGRAM, KANDAHAR, and MANAS. A scale bar at the bottom right indicates 0 to 1,788,699 Feet. The map is framed by directional arrows for North, South, East, and West.

One Air Force ... One Map

► Warehouse: Data and Maps

- PROS: Allows users to download content pertinent to their mission
 - Imagery and Geometry
- CONS: software restrictive
 - ArcGIS
 - AutoCAD
- GeoPDF Bridges the Gap
 - Some CONUS now
 - OCONUS soon
- Freeware
 - Greater ease of printing
 - Once downloaded, no internet connection is required to view content
 - **CONS:** static content is not updated



 **CENTAF Geospatial Information Office**

ACC CENTCOM Data

Name ▾

[Download CENTCOM Data](#)

ACC GeoBase Data Library - CENTAF Data

Click on the 'plus sign' to the left of the country to view which location folder to view its data objects available for download. the object to begin downloading.

[Choose A Location](#)

- + [AOR](#)
- + [Afghanistan](#)
- + [Bahrain](#)
- + [British Indian Ocean](#)
- + [Cyprus](#)
- + [Djibouti Ambouli](#)
- + [Egypt](#)
- + [Ethiopia](#)
- + [Greece](#)
- + [Iraq](#)
- + [Iran](#)
- + [Israel](#)

► What to Expect in the Future

- **New GeoViewer Format**
 - Higher functionality and improved print capabilities
- **GeoPDFs Implementation**
- **Enterprise SDE**
 - Entire AOR will be served out in a near real-time environment



Questions?

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