Centralized Building Information Portal
Darren Johnson – Woolpert, Inc
TOPICS

- What is GeoBase and ACES?
- What do the two systems have in common?
- What are some of the capabilities?
- Technologies and Process involved
What is GeoBase?

- The Air Force GeoBase Program integrates spatial information across the Air Force enterprise system. This allows the Air Force to share mission critical spatial information rapidly and ensures a common operating visualization capability that integrates with operations.
What is ACES?

• The Air Force Automated Civil Engineer System (ACES) is a centralized information system for all units. It is designed to support base level and HQ CE function in day to day operations.

• The system provides accurate real-time work management information to support customers in all operational environments in areas such as Real Property, Project Management, and Housing.
What is the Commonality between the two systems?

- Both systems are enterprise database solutions.
- Both systems contain real property and infrastructure data.
- Both systems data are maintained by the Civil Engineer with the AF
- Both systems are on the same AF domain.
What capabilities are possible by bridging the two systems?

- Building, Pavement, Airfield, etc… data can be linked to real property records enabling a multitude of spatial queries, reporting capabilities, and data validation.
- Projects Management data and cost can be tied to buildings, customers, tenants, etc… for analyzing, reporting, planning, and decision making with CE.
- Facility Managers and their buildings can be easily mapped and visualized.
What capabilities are possible by bridging the two systems?

- Future Projects and Development planning can be tied to project cost and priority data that enables community planner’s access to a wide range of visualization capabilities. Views can be tailored to CE mission requirements rather than relying on seek and find through multiple tables.
What technologies and processes are involved?

• Both systems utilize Oracle for their enterprise relational database storage.

• With ACES being a centralized source, bridging the two needed to cause low to no impact to day to day operations within ACES since it is an AF wide service.

• AFMC GeoBase utilizes an ESRI Flex Viewer to serve installation mapping to its clients on the Air Force network.

• AFMC hosts 9 installation spatial data stored in an SDE/Oracle environment.
What technologies and processes are involved?

• The decision was made to use a Merge(Insert/Update) and Delete method to host the ACES data locally in tables that replicate for all nine installations within one schema. From the tables stored locally, views are created to refine information into targeted snapshots used in web applications.

• Data is updated overnight through scheduled jobs in oracle, these run when network traffic to ACES is normally very low and thus have minimal impact to its system performance.
What technologies and processes are involved?

- Queries for the web are optimized through indexes and secured through procedures to negate sql injection over the web.
What technologies and processes are involved?

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**ACES Real Property Database Operations Workflow**

Database Link:
- HILL
- TINKER
- ARNOLD
- EGLIN
- HANSCOM
- WP
- EDWARDS
- KIRTLAND
- ROBINS

Packages:
- MERGE ACES RP
- DELETE ACES RP
Welcome to the Project & Facility Information Portal

Search by Project Number

Select Installation & Enter Project Number

ABJW

Search

Search by Keyword

Select Installation

WWYK -- (TINKER AIR FORCE BASE)

Enter Keyword

Search

Search Projects by Multi Criteria

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Questions?

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