How NAVFAC is Using GIS Data to Improve Real Property Audit-Readiness

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Naval Facilities Engineering Command

Our Mission: NAVFAC is the Naval Shore and Expeditionary Systems Command that:

• Plans, builds, and maintains sustainable facilities.
• Delivers environmental, utilities and other base services.
• Acquires and manages expeditionary combat force systems and equipment.

Our Vision: We are the facilities technical and business experts with the total trust and confidence of the Navy and Marine Corps.
Financial Improvement Audit Readiness (FIAR) is mandated by law and its goal is for an independent auditor to give DoD an unqualified opinion, an accounting “clean bill of health,” on its financial statements.

Key capabilities:

- Effective physical inventories and reconciliation of records
- Effective controls over recording asset acquisitions, disposals and transfers
- Retain and make available supporting documentation to meet audit standards
- Effective controls over financial & management data in the Accountable Property System of Record (iNFADS)
- Effective processes, controls and system improvements

Over the past several years, NAVFAC developed new processes or enhanced existing processes to improve audit readiness. One of those processes is a Virtual Inventory to support Existence & Completeness.
Existence & Completeness

Requirement: Existence & Completeness

• Existence: Assets exist Book to Floor (Virtual Floor)
• Completeness: Assets exist Floor (Virtual Floor) to Book

Virtual Inventory is a quarterly process and is one of the tools to help improve data quality (making timely corrections, updates to inventory or GIS database).

Once a match is confirmed between iNFADS and GIS, NAVFAC Real Property staff update a data element on the Real Property records to note this match (via mass update). This update occurs quarterly.

The unmatched reports (book to floor, floor to book) draw attention to the records that require attention for reconciliation that quarter.
Operations and Use

DATA RECONCILIATION TOOL (DRT)
GIS Data and Real Property Database

Key Fields

**GIS Attributes:**
facilityIDFK / RPUID
installationID / RPSUID

**INFADS Attributes:**
facility_id / RPUID
site_code / RPSUID

4/day replication

3/day Replication of Facilities data into GIS databases
iNFADS to GIS Crosswalk defines the relationship between the Real Property Category Code and the corresponding GIS Feature Class.
System Filters

Allows the tool to only select iNFADS and GIS records that are currently considered in the Virtual Inventory.
Data Reconciliation Tool Interface – iNFADS to GIS
iNFADS to GIS Report

Data Reconciliation Tool

Reconciliation Reports
- iNFADS to GIS
- GIS to iNFADS
- My Saved Queries

Summary Reports
- As AM CCNs/Feature Classes
- HQ Summary Report

User Help Information
- Crosswalk Table
  Crosswalk as of 10/20/2016
- System Filters

Summary
- Total number of iNFADS Records: 60,000
  - iNFADS records with a GIS feature class match: 59,215 (99%)
  - iNFADS records without a GIS feature class match: 785 (1%)

Unmatched iNFADS Records Details

RPUID | Facility ID | Facility No. | Facility Name | Region | Installation | Site | Cat. Code | Feature Class | Map Grid Loc
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
63979 | NFA2000000082999 | 5171 | SW1.1.45-EOT | SAMPLE REGION | SAMPLE INSTALLATION | Main Site | 73025 | RailTrack | K17
158558 | U8 | NORTHERN Spur | SAMPLE REGION | SAMPLE INSTALLATION | SAMPLE SITE | 81310 | RailTrack | G-03
84251 | 141 | NW1.2.55-EOT | SAMPLE REGION | SAMPLE INSTALLATION | Main Site | 21977 | RailTrack | G-04
86382 | 149 | WEST Spur | SAMPLE REGION | SAMPLE INSTALLATION | Main Site | 81159 | RailTrack | Q6
69538 | 2003 | SE33.5 | SAMPLE REGION | SAMPLE INSTALLATION | Main Site | 42135 | RailTrack | K17
98733 | 481 | EAST Spur | SAMPLE REGION | SAMPLE INSTALLATION | Main Site | 73025 | RailTrack | J8
Data Reconciliation Tool Interface – GIS to iNFADS
GIS to INFADS Report

Data Reconciliation Tool

Reconciliation Reports
- INFADS to GIS
- GIS to INFADS
- My Saved Queries

Summary Reports
- A: All CCHs/Feature Classes
- HQ Summary Report

User Help Information
- Crosswalk Table
  Crosswalk as of: 10/20/2016
- System Filters

Summary
- Total number of GIS records: 60,000
- GIS records found with an INFADS match: 35,000 (58%)
- GIS records without an INFADS match: 25,000 (42%)
- GIS records with a Blank Facility ID: 16,000
- GIS records with an Unmatched Facility ID: 1,000
- GIS records with an Invalid Facility ID: 3,000
- GIS records with Site Code Mismatch: 5,000

Unmatched GIS Records Details
Matched GIS Records Details
Site Code Mismatch Details
### HQ Summary Reports

#### Summary Tab

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<th>Region</th>
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<th>INFADS-&gt;GIS Matched (%)</th>
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