

U.S. DEFENSE AGENCY FINDS BENEFITS MIGRATING TO EDB POSTGRES WITH USE OF POSTGIS EXTENSION

GOALS

- Find a more flexible, less expensive geo-spatial technology
- Reduce hardware costs
- Eliminate Application Complexity

BENEFITS OF EDB POSTGRES

- Adopting Postgres enabled the use of the spatial solution, PostGIS
- Eliminating proprietary technologies enabled virtualization, reducing hardware costs
- EDB Postgres simplified the application layer, and increased performance

Agencies across the U.S. government have adopted EDB Postgres[™] from EnterpriseDB. One of those agencies is critical to securing information for the nation's defense initiatives and handles a wide range of data, and in particular, considerable stores of geospatial information. That made using Postgres attractive because of PostGIS, an extension for Postgres that is arguably the most powerful geospatial tool in the industry.

The agency had been using an Oracle® database with the Spatial Option to support a critical application that handled complex queries and needed to return data quickly. But, there were limitations. The database team wasn't able to implement all of the functionality. A bulk-loading scheme was on a daily cycle so updates were not available in real time. And it was running on expensive hardware.

COMPATIBILITY AND MIGRATION

Using EDB's database compatibility for Oracle, the agency migrated the application to EDB Postgres and added the PostGIS extension. The team also decided to run the new database in an inexpensive virtual machine environment to further reduce costs.

THE AGENCY EXPERIENCED MULTIPLE BENEFITS:

- Significant increase in performance
- Lower long-term maintenance costs



LEARN MORE AT WWW.ENTERPRISEDB.COM/CUSTOMERS

EnterpriseDB, EDB and EDB Postgres are trademarks of EnterpriseDB Corporation. Other names may be trademarks of their respective owners. Copyright© 2018. All rights reserved. 2018/025

DON'T START FROM SCRATCH

Using EDB's database compatibility for Oracle, the agency migrated the application to EDB Postgres and added the PostGIS extension.

- The ability to take advantage of more built-in geospatial functions that could answer a greater number of queries
- Greater portability in that the system could be easily replicated
- Increase in end user satisfaction and usage rates

Essentially, the new system moved the processing closer to the data, rather than relying on the application layer to do most of the heavy lifting. Allowing the database to do what it did best reduced the size and complexity of the application and, as a result, performance doubled. Another contributing factor in the performance gain was that all data was stored in PostGIS extended data types, which are purpose-built for handling the kind of information utilized in the database.

In addition, in sharp contrast to the old system, which had relied on a periodic batch loading process, the new system with EDB Postgres could support updates in near real time using web interfaces.

The Smarter Migration Option

EDB CASE STUDY



Leverage existing skills while streamlining migration

EDB Postgres Advanced Server offers a number of compatibility features for Oracle databases making life easier for DBAs and developers as they move.

JAPAN

KOREA

INDIA

+81-50-5532-7038

+82-10-2717-7408

I K

POSTGRES

US UK **SWEDEN** Call our nearest +44-20 3740 6778 +46 844 683 476 +1781-357-3390 location or email GERMANY FRANCE POI AND +49 322 210 97906 +33 975 187 082 +48 223 079 848 sales@enterprisedb.com **NETHERLANDS AUSTRALIA** +61-2-8019-7055 +91-20-66449600/601 +31 (0)20 808 0937

