

Korea Coast Guard rehosts and modernizes its legacy system with OpenFrame

The Korea Coast Guard that is responsible for the maritime safety and control of its country's coastline operates a main headquarters and hundreds of smaller operating stations.

It uses and maintains heavy, light, and medium vessels, along with other watercraft such as barges and an aircraft unit.

Its operations include speedy and effective rescue activities, crime protection, marine pollution surveillance, hazardous spill prevention, and protection of sea tourism.

INDUSTRY

Government

TMAXSOFT SOLUTION

OpenFrame

CHALLENGES

- Proprietary and localized system residing in a costly IBM mainframe
- System inflexibility affecting availability, performance, reliability, and efficiency
- De-centralized disparate applications and systems with poor user experiences
- Infrastructure not designed for smooth operations and centralized oversight
- Reduction in maintenance and development costs

RESULTS

- High performance and stability
- Centralized monitoring and operations management
- Reduced TCO and increased ROI compared to mainframe
- Reduced system maintenance and development costs
- System operational in just five months

The challenge

The widely divergent range of the coast guard's activities was putting a strain on its outdated, fragmented, and disparate systems running on a mainframe. The Korea Coast Guard wanted the reliability, efficiency, integrity, and flexibility of next-generation systems but was being held back by high maintenance costs and the rigid cost structure of an IBM mainframe. The need to convert to client screens was inconveniencing users, and the maritime agency was having difficulty finding resources to maintain and develop for their proprietary, localized legacy system.

The solution

The Korea Coast Guard chose TmaxSoft OpenFrame for legacy modernization, application redevelopment, and rehosting on an open system. The scope of the project included migrating system resources to the open system, eliminating the existing proprietary system, maintaining mainframe levels of performance and reliability, and implementing a crime inquiry system. As part of the project, 359 copies of statistical analysis, 314 copies of integrated ship management, and 108 copies of departure control programs were migrated, recompiled, and integrated into a main system. In addition, 207 database tables and 80 VSAM and NON-VSAM files were converted.

The project was completed in just five months. As a result of the rehosting and modernization, the new system satisfies high performance and stability requirements and is flexible to allow rapid changes or the incorporation of next-generation capabilities. At the same time, there was minimal change to code and business logic. Now that monitoring and operations management are part of one main system, all operations are much more efficient. The Korea Coast Guard reports a significant reduction in TCO and an increase in ROI compared to the mainframe, as well as a reduction in maintenance and development costs.

Rehosting an IBM mainframe and modernizing a legacy system helped the Korea Coast Guard centralize its fragmented systems, operate more efficiently, and take advantage of next-generation technology. Thanks to OpenFrame, they are seeing a significant increase in flexibility, availability, and stability and a reduction in cost compared to the mainframe with no impact on user experience.

TmaxSoft is a global software innovator focused on data management, middleware and mainframe modernization, with solutions that offer enterprise CIOs viable alternatives to support their global IT powerhouses and drive competitive advantage. TmaxSoft has based its growth on a strong foundation of research and development, along with a sustained commitment to innovation. Today, we work with over 2,000 customers around the world.

TmaxSoft was founded in 1997, and today we have over 1,700 employees in 20 strategic centers around the world.

OPENFRAME

OpenFrame is a proven solution for quickly moving legacy mainframe applications and data to an open system environment with a significant reduction in annual run costs and no changes to the business logic.



GLOBAL HQ

TmaxSoft, Inc.

230 West Monroe Street,
Suite 1950
Chicago, Illinois 60606

TEL : +1.312.525.8330
Email : info@tmaxsoft.com

tmaxsoft.com

Korea Group HQ and R&D Centre

TmaxTower 45, Jeongjail-ro,
Bundang-gu, Seongnam-si,
Gyeonggi-do, Korea 13613

TEL : +82.31.8018.1000