CASE STUDY

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Build and maintain the business management software system for
INSURANCE SERVICES
of Japanese companies

HIGHLIGHTS

01 ### Proficiency in COBOL Programming
Our highly experienced team is skilled in developing software using COBOL, a 60-year-old programming language, covering the entire development process from basic design to integration testing.

02 ### Insurance industry
The insurance industry is an important industry related to people's lives, requiring high software quality.

OVERVIEW

- **Country:** Japan
- **Service:** DevOps & Software Maintenance
- **Industry:** Insurance
- **Technology:** Mainframe, z/OS, , CICS, Cobol, JCL, DB2, HAPF, HULFT
- **Scale:** 18-30 man-months
- **Cooperation model:** ODC - Offshore Development Center
- **Development phases:** Analysis, Basic Design, Detailed Design, Development (Coding), Testing & Integration.

ABOUT CLIENT

Our client, a leading system integration company in Japan, focuses on system integration and application development for financial and retail clients.

Since 2009, Luvina has been recognized as "Partner F" by our client for our high capacity, strong technical response, and exceptional level of information security, which have significantly contributed to customer growth.

During our 13-year cooperation, Luvina has completed numerous projects in sectors such as sales systems, stocks, securities, banking, insurance, and more.

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CHALLENGES

SOLUTIONS

COBOL expertise and talent:
The insurance company's systems rely heavily on COBOL, a language that has lost popularity over the years. Finding skilled developers proficient in COBOL poses a significant challenge, as modern developers lean toward more contemporary languages.

Operating legacy systems:
The current systems, while robust, lack the flexibility to adapt to changes in insurance regulations and market dynamics.

Stringent quality standards:
The client's quality standards demand extreme precision and reliability. They expect a maximum of 0.1 errors per 1000 lines of code. Meeting such high-quality standards requires meticulous attention to comprehensive testing methods.

COBOL expertise:
- We built a team of highly experienced COBOL developers who not only meet technical requirements and are proficient in Japanese but also possess in-depth knowledge of the insurance industry. They are well-equipped to tackle complex challenges posed by the client's requirements.
- We established a COBOL personnel training program, including training for team leaders and software engineers, to ensure the project team can be scaled up efficiently in terms of human resources.

System understanding:
To minimize disruptions to the insurance company's operations, our approach involved understanding the system's operations. Basic and advanced vocational training was meticulously planned in coordination with the client to equip our engineers with the necessary insights into the system.

Quality Assurance Process:
Luvina Software JSC employs a quality assurance process that can meet the client's stringent quality standards. It includes comprehensive testing, covering unit testing, integration testing, regression testing, and performance testing. A consistent and meticulous approach to quality assurance ensures code quality remains consistent and any issues are identified early in the development cycle. Standardized process activities and continuous PDCA (Plan-Do-Check-Act) cycles at the smallest task level ensure continuous improvement while aiming for high yet stable quality.

ACHIEVEMENTS

Great scale up potential

Our project has been successfully ongoing for over 5 years, with the client recognizing our personnel's quality and capacity. Currently, the project continues to develop steadily and is set to expand up to 50 man-months per month.

High-Quality Codebase

Through the meticulous quality assurance framework, the development team consistently maintained a maximum of 0,1 bugs within every 1000 lines of code. This level of precision contributed to the stability and reliability of the insurance systems.

Efficient Resource Utilization

Leveraging Luvina's expertise in COBOL and optimizing resource allocation in the insurance domain, the insurance company can focus on their core business activities while the software outsourcing partner handles complex technical issues.