Spiralogics

Helping Businesses Succeed

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SPIRALOGICS, INC

Case Study:

About

Americold (formerly Agro Merchants Group) is a premier provider of cold storage & supply chain solutions in US, Australia, and New Zealand. It uses Warehouse Management Systems to handle its day-to-day business.

Needs/ Challenges:

Vizion WMS is a Warehouse Management System which was developed in-house by Americold (Agro Merchants). After decades of continuous use and development, the company felt the necessity to evaluate the software and identify any risk associated with it.
In order to achieve this goal, Spiralogics, Inc. was assigned to analyze and document Vizion WMS system.

Solution:

Throughout the project timeline, Spiralogics analyzed and documented the current version of Vizion WMS application. During analysis, we attempted to document the risks associated with current implementation of the application, while suggesting recommendations to mitigate the risks. Special attention was given throughout the project to focusing on the Security Vulnerabilities in the System, whilst suggesting remediations.

Phase I

- Studied Client Documents
- Compiled Vizion WMS application in our own environment using the code base provided from Clients.

Phase II

- Analyzed Major Entities in the application.
- Completed Technical Documentation of Master Files

Phase III

- Analyzed the main Business Flow of the Warehouse Management System along with highlighting Hidden Algorithms in the System.
- Completed Technical Documentation of all the Modules.

After detailed analysis and documentation of the Vizion Warehouse Management System, following documents were compiled and delivered to Agro Merchants Group.

1. **Technical Detail Document:** Outline of the various modules of the system and its functions. Its interaction with the database tables and field level validation was performed to ensure data integrity.
2. **Risk Analysis Report:** This document contains issues and concerns that have been identified during the review process. It highlights each concern and the vulnerabilities associated with each one.
3. **Security Vulnerability Report:** This document focuses on the security risks and vulnerabilities that have been identified in the system.
4. **Future Recommendations Report:** This document outlines the solutions that have been identified to address the various issues and concerns that were found in the system.
5. **Architecture Review Document:** This document provides a conceptual view of the system and what it does and how it is structured. It gives an overall view of how the system is tied in with the different operational and business functions that it supports. The architecture review document consists of the following:

    a. Enterprise Architecture Diagram

    b. Conceptual Model Diagram

    c. Process Flow Diagram

    d. SwimLane Diagram

Conclusion:

Spiralogics recommended client to upgrade their software to newer technology. Since then, Spiralogics has been providing technical support while enhancing key features of the system.