

SOLIRIUS IS DEVELOPING A MESSAGING HUB FOR A LARGE GOVERNMENT DEPARTMENT WITH THE HELP OF MONAD SOLUTIONS

About our customer

Solirius are an independent software and technology consultancy company who are delivering a complex messaging hub to a large UK government department with the help of Monad Solutions.



The Project

The starting development team consisted only of the two developers from Monad. They implemented the initial design specified by the Solirius Software Architect. This initial implementation provided the hub with which the government department and CRCs were able to send SOAP XML messages to each other with custom configuration provided. Over time, the team was tasked with updating the product and managing the project including:

- Creating multiple configurable stubs to allow CRC testing
- Writing a suite of tests for integration testing across multiple servers which was used as a reference by an external test team
- Setting up and maintaining a set of Solirius AWS servers for testing
- Configuring and maintaining a Continuous Integration process with Jenkins deploying to the test servers
- Implementing TLS and Message Signing security
- Supporting and testing clustering across multiple servers
- Implementing a REST messaging service to enable communication with an Unstructured Data Document Repository
- Supporting new message Schemas from the customer
- Supporting all customer representatives regarding technical issues during deployment and testing
- Maintaining various (30+) different environments provided by the customer as well as helping solve technical issues that arise

The Monad resources played a major role in these tasks overseeing multiple successful releases and testing periods.

The Challenges

There were various technical challenges faced during development of the product. The main technical challenges arose from the implementation of the customer's security specification and deploying onto their servers such that the hub would work within their environment's limitations as well as with external CRC clients.

Another was maintaining two versions of the codebase (both versions were being used by various CRCs) across multiple environments which we had limited access to, all of which were being tested by CRCs and the government department. This meant frequent technical support was needed to handle customer queries so they could communicate as well as implementing new fixes and requirements because of the new environments alongside normal development.

On top of helping out with the maintenance of the government department environments, it was necessary to provide support to CRCs to connect to the system, namely providing custom stubs for them to test with, amending the code to handle specific CRC requirements and guiding them in technical areas they were not familiar with.

The Monad developers were central to these challenges as they were the most experienced with the codebase, so the constant shift in requirements and roles shows the flexibility of our resources.

The Solution

This problem was addressed by building a messaging hub in service mix on an apache stack that became complex but was very scalable and supported a broad range of functionality including guaranteed delivery and push messages.

The Results

The project was delivered on time and to budget whilst coping with some considerable changes and requirements during the development time. The system went live on the appointed date, and subsequent update deployments were also delivered on the target dates set by the Government Department.

"Monad Solutions provide high quality resources, are very flexible and took the time to understand our needs."

Hemel Popat
Managing Director
Solirius

Get in touch:

Need some quality technical assistance?



info@monadsolutions.com



<http://monadsolutions.com>



Case Study