



Nearshore Strategy helps Leading Aviation Solutions Provider Scale Software Engineering Expertise





Key Challenges:

- *The client had no prior knowledge and experience using Agile Methodology. They required experts with a background in Agile Scrum Methodologies and mobile application development*
- *The application had to be compatible on multiple platforms which required different skillsets for proper functioning*
- *The client had no access to the right pool of talent. They required a flexible team that could scale up and scale down resources based on size and priority of the release*
- *The client wanted to develop a high quality end product for their customers*

About The Customer

The client is a leading developer of innovative aviation solutions, designed both for airlines' back-office staff and their pilots, founded in 2010 is now a part of a multinational company that designs and builds electrical systems and provides services for the aerospace, defense, transportation and security markets, the client rakes in more than 15B Euros in revenue annually.



The Need

- The client was looking for a partner to build a suite of mobile applications aimed at strengthening inflight communication between the crew and to access flight documentation and passenger information
- A light-weight app that was compatible with multiple airline brands, flight models and worked in offline mode
- The Client wanted the designs and product data to be sensitive and accessible to users within the European Union
- The complex and iterative nature of the product meant that the product and engineering teams had to meet face-to-face frequently engaging in day long workshops
- The Client wanted the flexibility to scale up and scale down the team based on the product release pipeline



Our Solution

- The client's premier product EFB (Electronic Flight Bag) was based on old technology and was facing challenges with performance and stability. As a result, the client was looking to migrate the product to the newer iOS Swift technology
- Aspire proposed a Nearshore Agile development model with a core and extended team to design and architect a high quality application suite that would be more robust, and maintainable
- Aspire leveraged its experience working with ISVs and introduced frameworks, accelerators, and best practices in Software Engineering bringing in CoE expertise in various fields like UI/UX, DevOps, and multiple Agile Tools to offer services in core application development, web and mobile development, project management, and testing
- Aspire's specialists designed the architecture and coordinated the migration of the entire application to the newer iOS Swift Technology
- Aspire collaborated with the Client's in house team and implemented the Globe Module with the application that allowed the pilots to view flight routes, weather patterns, alternative routes and so on
- The team was able to travel on demand to the customer location and be part of face-to-face meetings and workshops during the design and critical phases of the project



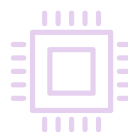
The Team

- The Product Development Team at its peak had approximately 50 FTE in Belgium, France and Poland where 25 FTE were Aspire employees and 25 FTE were Client's employees
- The Product Development Team was split into a few functional teams with specific focus areas e.g. Flight, Aircraft, Globe. Each team, that consisted of PO, SM, QA and Developers, delivered features within 2 weeks Scrum iterations
- The product demos were held biweekly with the entire Product Team present

Partnership Highlights

- Nearshore team in Poland organized constant visits on both sides to establish a better relationship with the client
- Well integrated and co-located teams to enable quicker resolution of challenges
- Involvement in the planning to help enhance the visibility and match the delivery

Technology Snapshot



» Objective C

» Java EE

» SWIFT

» Amazon Cloud

» Windows WPF

» Docker Containers



Results

- The customer was able to scale to fit their growing business and run successful product sales to more than 55 airline customers including Boeing
- The Nearshore engagement model allowed the client to build a hyper-scalable Agile Team
- With a lending hand from Aspire, the client was able to grow their footprint to over 28 countries
- Prior to Aspire's collaboration with the client, product releases were in a state of chaos. With guidance and expertise provided by the Aspire Nearshore team, the client has managed 3 releases and plans to increase frequency of releases in the future
- With overlapping timezones, the client and Aspire team were able to travel back and forth on a regular basis increasing facetime between the two parties
- The client was able to achieve a high quality product with the help and expertise of Aspire Systems' team



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