



AIRPLANE WIFI INTERNET CONNECTIVITY CASE STUDY

CLIENT OVERVIEW

Our client provides an in-flight broadband internet service on U.S. domestic flights allowing passengers to use their laptops or PDAs and enjoy a true high-speed internet experience - from full-on web surfing, to real time e-mail with attachments, streaming video, transferring large files, and accessing corporate VPNs. For domestic operators flying in the continental U.S., this in-flight internet is the logical choice for true high speed connectivity in flight, providing passengers virtually all of the same internet capabilities they are accustomed to on the ground.

KEY REQUIREMENTS

- Building a test environment to simulate in-flight conditions
- Automatic detection and setting precedence of client network amidst all available networks
- Maintaining interface connectivity points with the ground based server

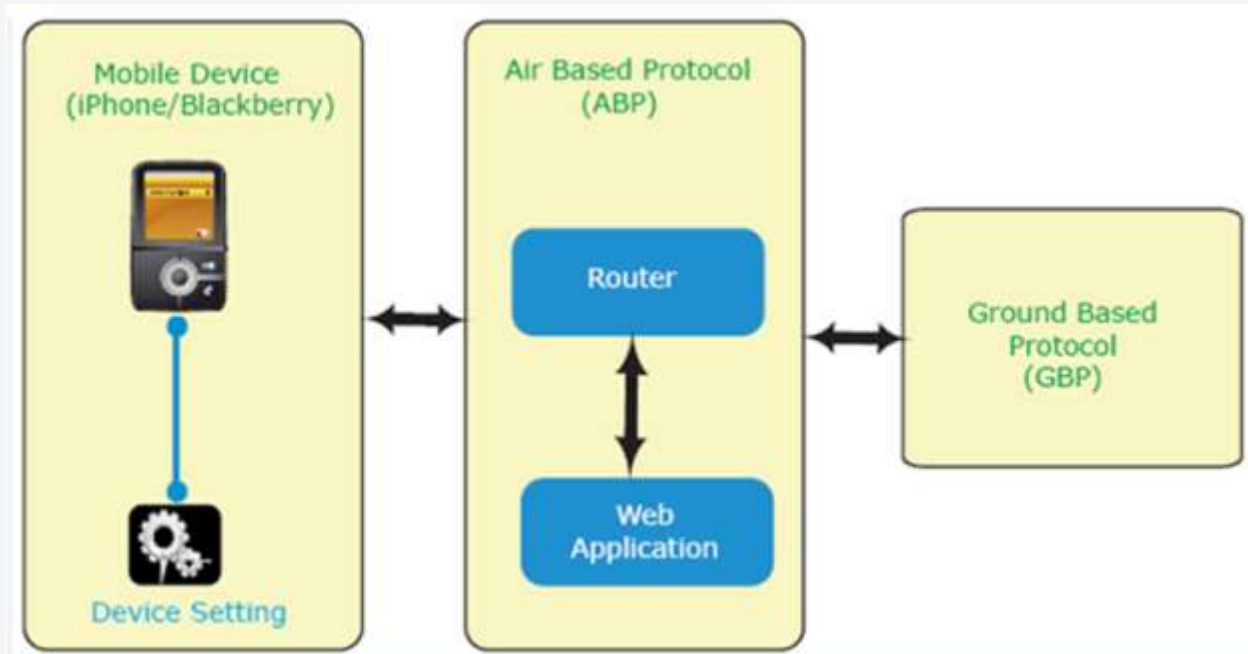
KEY CONTRIBUTIONS

- Xoriant was involved in the entire SDLC process of building the native application from requirements gathering to sustaining product support
- Our team made special efforts to learn about the specialized Wi-Fi equipment used by our client to be able to configure it properly to simulate the cabin based server
- Our team also established a secured connection between the local QA environment and client's test simulator to facilitate near-perfect replication of in-flight conditions
- We designed and developed a single application for the entire family of BlackBerry Handsets
- All the applications are compatible with App Store as well as BlackBerry store standards. Our team also helped our client in the submission process
- Our team devised a work-around for iPhone since Apple does not provide support for auto-detection of active Wi-Fi connection using SSID (Service Set Identifier). Apple also does not support the usage of 3rdparty frameworks used to detect Wi-Fi connectivity
- Xoriant team adopted a custom implementation plan as follows:
 - Detect active Wi-Fi connection using the existing Reachability APIs
 - The client network broadcasted a valid range of IP address on their Wi-Fi network

KEY BENEFITS

- Xoriant's Smartphone App Accelerator™ allowed the team to add the basic mobile phone functionalities in 40% less time and have more time to focus on innovative features. These Xoriant proprietary frameworks also ensure rapid development of subsequent mobile applications. Saved 40% of infrastructure cost over legacy infrastructure vendor and recurring license cost through multi-tenancy
- Xoriant's experience in designing, developing and obtaining approval of iPhone and BlackBerry applications at their respective stores significantly accelerated our client's timelines
- Our client was able to get good traction for the application that was submitted in both the stores. This in turn helped our client in building a larger user base for their internet services

HIGH LEVEL ARCHITECTURE



TECHNOLOGY STACK

- Drupal 7
- Sun Java Development Kit 1.5 or higher
- Blackberry IDE 5.0
- RIM and client API
- BlackBerry devices : Curve, Bold, Storm and Torch
- Apple iPhone, Xcode 3.2.3 and iOS, SDK 4.0.1
- Reachability APIs



About Xoriant:

Xoriant Corporation is a Product Development, Engineering and Consulting Services Company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite and offshore services from our eight global delivery centers with over 2000 software professionals. Xoriant has deep client relationships spanning over 25 years with various clients ranging from startups to Fortune 100 companies.