

## WCF Integration

**Client:** A Wireless High Speed Internet Service Provider

**Location:** USA

### Client Description

The client builds and operates next generation wireless broadband networks that enable fast, simple, portable, reliable and affordable Internet Communications. Their current services are both competitive with and complementary to existing Wireline and Wireless networks. Their subscribers access the same rich content, applications and services as subscribers of Wireline broadband services, while also experiencing much of the freedom and flexibility that large scale wireless networks enable.

Beginning in the second half of 2008, the client deployed the standards based mobile WiMAX service, which is based on the IEEE mobile Worldwide Interoperability of Microwave Access 802.16e-2005 standards in the new markets.

### Business Need

The client wanted to build a unified VAS (Value Added Services) platform to service different needs of wireless broadband users in day-to-day life. They needed a platform for seamless integration of various service and content providers under one roof. The client was looking out for a vendor to work on integration of all the services and provide unified access to these services.

### Solution Offered

BSI, with high-end technology expertise, usability expertise, domain knowledge and scalability, was selected to be the client's technology partner. There were two approaches to the solution, either using WCF for simple services or BizTalk for composite services. A proper Proof-Of-Concept was carried out by BSI resulting in the selection of WCF. WCF uses industry standards for integration with diverse technologies. Also, parallel development is possible using pre defined interfaces.

WCF integration layer was first developed. All the provider services were integrated on common WCF platform. Different client applications such as Java website, hand-held device applications would connect to the service layer and access information from one central access point.

In the later stage, BSI also helped the client to build a reporting system based on Microsoft SSRS.

The project went through a lot of iterations due to requirements changes – typically of development. Initially all the test-cases were written and executed in .NET. As the application involved integration between different platforms such as Java and Open-Source, a common unit testing mechanism was needed. This could make sure that the integration would be seamless after the delivery. SOAP-UI test-tool was chosen as testing tool to reduce overhead of testing the services on different platforms.

### Benefits to the Client

- BSI's competency in WCF and the Microsoft technology stack enabled seamless and efficient delivery.
- The client was provided with quick access to key skills in the areas of usability and architecture through BSI's support groups on an on-demand basis. This ensured optimization of the client's development cost.
- By utilizing a global delivery model, BSI was able to provide cost benefits to the client.
- The solution developed by BSI provided one-point access to the users for all devices and contents.

### TOOLS / TECHNOLOGY

- WCF: SOA,
- ASP.NET 2.0/ 3.5,
- WCF,
- SOAP-UI testing tool,
- SQL 2005,
- VS 2008
- BI: SSRS, SQL 2005,
- ASP.NET 2.0

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