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# Case Study



## Development and Deployment of Advanced Metering Infrastructure Solution

A leading US-based smart grid communication company needed to develop and enhance their AMI product for one of the largest Smart Metering Installations. They turned to Infinite's expertise and agility in the domain of building Energy and Utilities solutions better than other companies in this space.

### The Client

The customer is a key player in Smart Grid Communication, helping leading utilities and energy retailers enhance energy efficiency, improve grid reliability, bring down operating costs and integrate renewable energy resources, while empowering consumers to better manage their energy consumption. The client supplies utilities with wireless mesh equipment to enable two-way communication networks throughout the electric grid. They are also one of the largest players in AMI.

### The Challenge

- o The customer is part of one of the world's largest deployments of Smart Meters for a large European utility provider covering 17 Million consumers.
- o The deployment needed software that would enable communication with the meters to collect data such as meter reads and perform various operations like online firmware upgrade and have reporting interfaces with the Billing and SAP systems.
- o A key challenge was the need to work continuously with evolving requirements. This was primarily due to change in interfaces of new hardware components that were designed for the first time using open standards for communication.
- o The development team was located across 3 time zones requiring robust project management systems and processes to ensure seamless coordination between the teams.

## Solution

- o Infinite partnered with the customer to develop the customized head end software for the smart meter deployment. The solution involved software development and testing for the AMI product and field devices
- o The project needed an Agile approach to development in the form of SCRUM methodology.
- o The team built a comprehensive simulator to simulate the behavior of all devices (Electric and Gas Meters, IHU and Communication Hub) as the devices were available very late in the cycle.
- o The team performed integrated testing framework across head-end software, interface controller and smart meters
- o Infinite's team assisted in seamless deployment of multiple phases of the project and is working on automating the test cases to reduce the testing time with every testing cycle.

## Outcome

Infinite's strong focus on the customer's needs ensured successful delivery on all milestones. The team now extends its support to all components of the product. The customer's confidence in the team led to Infinite's involvement in the customer's sales effort by being a part of the demos to their prospective clients.

## Technology Overview

- o Product runs in clustered environment with hardware load balancer.
- o Open standard protocols like TCP/IP, GPRS, ZigBee, DLMS/COSEM
- o Google Web Toolkit, Apache Tomcat
- o Java, Hibernate, Web Services, Spring

## About Infinite

Infinite Computer Solutions is a global service provider of Application Management, Infrastructure Management, Product Engineering and Mobility and Messaging Products and Solutions, with focus on Telecom, Energy & Utilities, Media & Content, Healthcare and Banking & Finance industries. Our strength stems from the alignment with client business objectives, even as we engage with clients across multiple engagement models to align better with your business needs. With a global headcount of around 5000 professionals and offices spread across India, US, UK, China, Malaysia, Singapore and Hong Kong which includes delivery centers in the US at Maryland, Illinois and Tennessee and in India at Bangalore, Delhi, Hyderabad and Chennai, key resources are always there when our customers need them.

Established in 1999, Infinite today is a publicly listed entity headquartered in Bangalore, India, with an expanse across three continents, a diverse employee base and over 50 premier clients, including several leading Fortune 100 companies. The journey so far has been as remarkable as it has been definitive. Our mission is to maximize customer delight through high quality solutions and services, while fostering a proud and efficient workforce. We not only develop technology-enabled solutions to solve our clients' toughest challenges but also bring smart innovation through series of quality enhancements, process improvements and a pragmatic approach towards clients' business challenges.

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