



LTE PHY Layer Development & Testing

THE CLIENT

The client is a leading provider of products and innovations in IP and cloud networking, as well as ultra-broadband fixed and wireless access.

BUSINESS NEED

The client wanted ALLEN Calsoft Labs to do the following for them.

- Develop a LTE PHY Layer for streamlining business experience
- Henceforth, test it to ensure high throughput and low latency

TECHNOLOGY USED

- Multicore DSP for L1
- Hardware Accelerators for L1
- CPRI
- DataPath accelerators and Packet processing accelerators
- Multiple technologies (2G/3G/4G) with Common OAM

SOLUTION DELIVERED

ALLEN Calsoft Labs' expert team did the following to shape the client's requirement.

- Carried out Digital Light Radio Program
 - 3G/LTE NodeB migration to next generation multi-core SOC
 - SOC consists of multi-core GPP, DSP and HW accelerators for L1 & L2 functions
- Test development of Tool board which acts as L2 simulator for testing L1 modem board
- Test execution as an extension of the Development team
 - Perl scripts for regression testing
 - Code collaborator (for code reviews)
 - Clearcase (for version control)
 - CPRI synchronization between Tool and Modem boards

BUSINESS BENEFITS

- High throughput
- Low latency
- FDD and TDD in same platform
- Superior End User Experience
- Seamless Connection
- Plug and play

ABOUT ALLEN CALSOFT LABS

ALLEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALLEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALLEN Calsoft Labs is a part of ALLEN group, a leader in technology consulting and engineering services.

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