ALTEN CALSOFTLABS
AN ALTEN GROUP COMPANY

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 ALTEN 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

ALTEN 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

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