



Development timelines were accelerated by 6 months, within a stringent budget

Co-Creating the LTE eNodeB for a Large Tier-1 Japanese OEM

Customer Profile

The customer is a leading mobile infrastructure manufacturer based in Japan. In addition to mobile phones, they are also a leading provider of wireless communications infrastructure, including base stations. They actively partner with other organizations so that they can provide end-to-end products and services for mobile network operators.

Customer Challenges

- Become a first mover in 4G solutions
- Deliver an LTE eNodeB base station solution quickly under stringent budget constraints
- Assemble a team of engineers with relevant domain expertise and the right software development skills in record time
- Ensure compliance with evolving and complex LTE specifications

Solution

- Aricent designed and developed the eNodeB software components, including Intra eNodeB transport as well as operations and maintenance software
- Development speed and product quality was accelerated via the development of advanced test simulators for various eNodeB components

Results

- Customer was able to accelerate the development timelines by 6 months within their stringent budget constraints
- Customer achieved their first mover objective for LTE solutions
- Aricent's approach and processes improved customer's overall development practice and methodologies

Why Aricent?

After evaluating multiple vendors through an exhaustive RFP process, the customer chose Aricent primarily for its proven track record and extensive domain knowledge gained by delivering a broad range of wireless systems. This includes wireless solutions involving 3G, GSM, GPRS, and EGPRS. Aricent's early leadership in LTE technology expertise convinced them that Aricent was the optimal choice for developing this product – and significantly lowered the development risks. Aricent's established relationships with other ecosystem vendors further supported the decision. The last factor for choosing Aricent was for its proven ability to quickly scale engineering resources to meet stringent budget and development timeline requirements.

Customer Challenges

The customer was faced with getting a complex new network element to market, meeting stringent budget constraints, and ensuring compliance with the evolving LTE specifications in order to deliver a standards-compliant eNodeB solution. In order to gain the first mover advantage in the LTE 4G market, the customer wanted the product to become available in a very aggressive timeframe.

Aricent Solution

Aricent worked closely with the customer to co-create an eNodeB solution for LTE networks by leveraging deep technical expertise in wireless technologies, and extensive experience in co-developing solutions including BTS, BSC, Node B, and RNC systems. Aricent quickly ramped up a dedicated team of engineers for the customer, delivering outstanding results in every phase of the project. The following key components were delivered with high quality and within budget:

- Aricent did the design, development and quality assurance of the key eNodeB modules, for Intra eNodeB Transport, namely, Setup S1/X2 Interface, Cell and Common Channel Setup, User Setup / Delete functions, Radio Bearer Reconfiguration, Inter and Intra-eNB Handover.
- Aricent delivered operations and maintenance software such as Health Manager, Alarm Reporting System, Redundancy Manager, Tracing and Logging APIs and Error Reporting Systems.
- Aricent also provided a variety of test tools to simulate various components of eNodeB, thereby reducing the customers overall test cycle.

Results

The customer was able to reduce time-to-market by 6 months, and accomplish their objective of becoming a first mover in LTE. Aricent quickly ramped up a core team of 14 people in 2 weeks and added 60 skilled engineers in 3 months to deliver an eNodeB solution quickly under stringent budget conditions – and with strict compliance with evolving LTE specifications.

By leveraging its strong relationships with other ecosystem partners, Aricent efficiently aligned its development cycle with the availability of modules from other suppliers, further accelerating the development timelines.

Aricent's proven expertise, deep domain knowledge, and the ability to quickly adapt to the changing requirements (for both existing and new features) reduced the risk associated with new product development.

CORPORATE OFFICE

700 Hansen Way
Palo Alto, CA 94304-1388 USA
Phone +1 650 391 1088
www.aricent.com



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