
WORLD'S FIRST MICROWAVE CONNECTION BETWEEN LTE MAIN AND REMOTE RADIO UNITS

- Ericsson performs demonstration of microwave connection between LTE main and remote radio units for the first time
- Alternative for situations in which use of optical fiber is not ideal, can be used to add small cells to existing networks, thereby creating heterogeneous networks (hetnet)
- Innovative solution provided microwave capacity of 2.5Gbps

Until now, operators have been restricted to using optical fiber to connect main and remote radio units (RRUs) in their networks. However, there are situations – such as in dense urban environments – when using fiber for this purpose can be difficult, costly and limiting. Ericsson (NASDAQ: ERIC) has now successfully demonstrated that it is possible to connect the main and remote radio units with a microwave link, thereby offering operators greater flexibility.

In the tests, conducted at the Ericsson premises in China, the microwave connection between the main unit and the remote unit was provided by a MINI-LINK PT, working in the E-band (70–80GHz). The microwave link provided capacity of 2.5Gbps, which is sufficient for a wireless main-remote system in compliance with Common Public Radio Interface (CPRI) standards. This is one example of new applications with high-capacity packet microwave products.

Since the MINI-LINK PT is compact and easy to install outdoors, this solution will allow for rapid connection of RRUs – including small RRUs that can be used to add small cells to existing networks, thereby transforming them into heterogeneous networks (hetnets) and boosting overall capacity.

Ola Gustavsson, Head of Product Line Microwave and Mobile Backhaul at Ericsson, says: “In situations where optical fiber isn’t the best option due to cost or time to market, it is great that we now have an alternative – in the form of microwave – that will allow operators to connect the main and remote radio units in their networks. Making it easier for operators to do business is our primary business.

NOTES TO EDITORS

[Ericsson's Microwave network solution](#)

[Ericsson at MWC 2012](#)

[Mobile World Congress site](#)

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Our offering comprises services, software and infrastructure within Information and Communications Technology for telecom operators and other industries. Today more than 40 percent of the world's mobile traffic goes through Ericsson networks and we support customers' networks servicing more than 2 billion subscribers.

We operate in 180 countries and employ more than 100,000 people. Founded in 1876, Ericsson is headquartered in Stockholm, Sweden. In 2011 the company had revenues of SEK 226,9 billion (USD 35,0 billion). Ericsson is listed on NASDAQ OMX, Stockholm and NASDAQ, New York stock exchanges.

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