

LTE Technology Demonstration

February 2009



Disclaimer

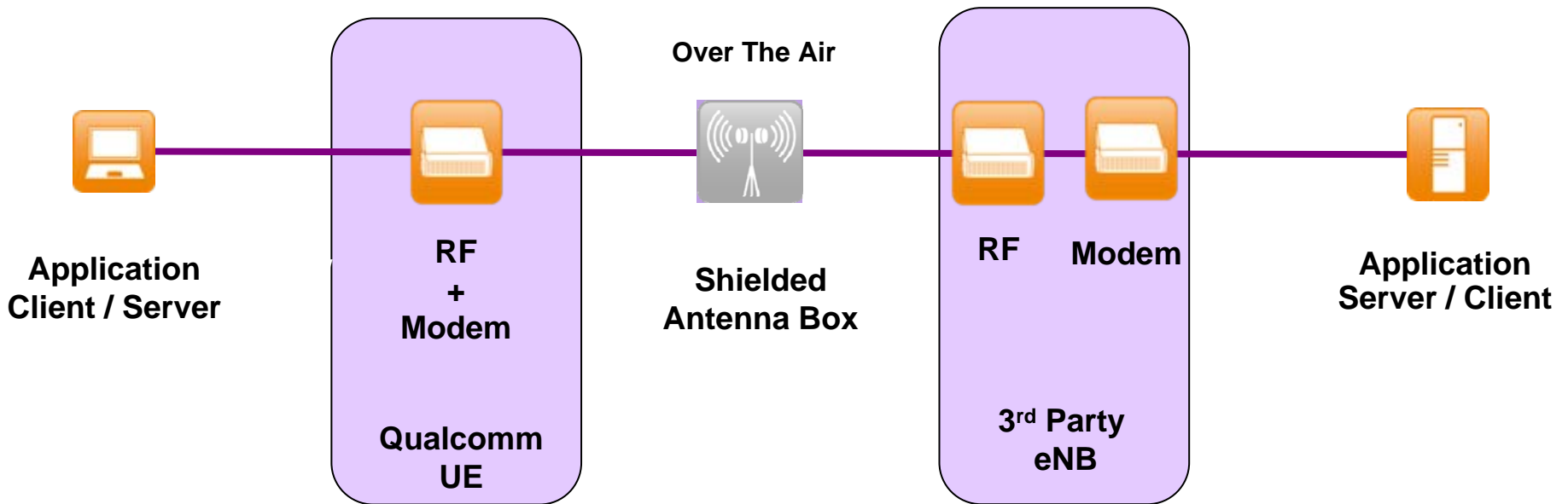
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LTE Over-the-Air Live Demonstration

Description:

- Demonstration of standards-compliant LTE technology
- Showing interoperability with Qualcomm's device platform and a 3rd party infrastructure
- Demonstration features
 - Over-the-air link with 2x2 MIMO in 10 MHz FDD
 - HD video streaming to highlight LTE's excellent performance

LTE Over-the-Air Live Demo Set-up



Qualcomm UE Capable of up to 50 Mbps DL and 25 Mbps UL

LTE Over-the-Air Live Demo Set-up Details

- Equipment
 - Qualcomm's prototype UE (**Category 2 terminal**)
 - 3rd Party eNode B
 - 10 MHz FDD
 - DL - 2x2 MIMO with 16 QAM
 - UL - 1x2 SIMO with 16 QAM
- 3GPP Rel. 8 LTE Interoperability Tested
 - Based on Sept. '08 version of 3GPP specifications

MDM 9x00 - Sampling in mid-2009; IOT in 2009

LTE Over-the-Air Live Demo Set-up Details

- HD Video Streaming
 - Application layer data rates
 - DL 20 Mbps
 - UL 10 Mbps
 - Physical layer data rates
 - DL 23 Mbps
 - UL 11.5 Mbps