

Appendix: Overview of the Trials

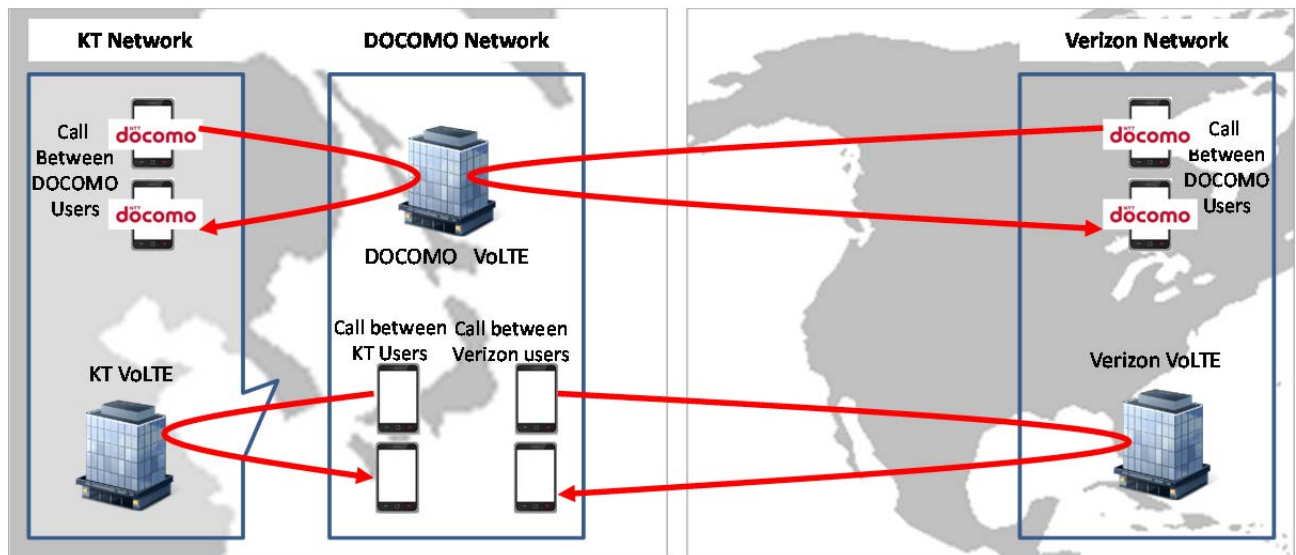
Purpose

The purpose of the trials was to verify the feasibility and voice quality of S8HR VoLTE roaming architecture. The trials were conducted in cooperation with KT, Verizon Wireless and the GSMA, using environments equivalent to those of commercial networks.

Overview

Separate networks were created by DOCOMO with KT and Verizon Wireless using existing LTE data roaming framework. VoLTE roaming was provided on top of established S8 connections.

Figure 1: Trial Network Configuration



1. Results of DOCOMO and KT Trials

DOCOMO and KT simulated a commercial environment using VoLTE devices, EPC and VoLTE equipment and an IPX network for interconnect. Two KT devices on the DOCOMO network and two DOCOMO devices on the KT network respectively achieved high-definition voice and video sessions with full end-to-end QoS.

2. Results of DOCOMO and Verizon Wireless Trials

DOCOMO and Verizon Wireless simulated a commercial environment using VoLTE devices, EPC and VoLTE equipment and an IPX network for interconnect. Two Verizon Wireless devices on the DOCOMO network and two DOCOMO devices on the Verizon Wireless network respectively achieved transoceanic high-definition voice sessions.