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EXHIBIT 1: Description of 3.5 GHz Experiment and Experimental Objective

Applicant: Fujitsu Laboratories of America

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Fujitsu Laboratories of America (FLA) is conducting a research project regarding the handover system between 802.16 (WiMAX) and 802.11 (WiFi) networks. In this investigation FLA needs to setup a test bed including one 802.16 base station, two 802.11 access points, and one consumer premise equipment (CPE) with both WiMAX and WiFi access functions. The experiments conducted in real systems are necessary to verify the feasibility of handover system between 802.16 and 802.11 networks. The investigation results will be contributed to the development of ongoing 802.21 medium independent handover standard.

The reasons why FLA applies for a 3.5GHz experimental license include two aspects:

- (1) Fujitsu is working with N/A operators to deploy 802.16 systems, and they are all planning to use the licensed band. Fujitsu needs to conduct its own experimental tests and field trials in a provisional deployment of 802.16 system to test system integration including wireless and wired equipments.
- (2) IEEE 802.21 standard will cover both handover requirements of 802.11 and 802.16 systems. Over the next few years, the industry expects devolvment of 802.16 to mobile systems, including 802.16e and handover between 802.16 systems. It is a mandate that radio propagation and interference issues are thoroughly studied using equipment deployed in real operational environment, before such handover procedures are established and deployed in practice.