

Ericsson
Experimental License Application File No. 0302-EX-PL-2015
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Ericsson Inc. is a world leader in telecommunications with a long tradition of innovation that is founded in our strong commitment to the research and development of wireless technologies. To build on its engineering and research expertise, Ericsson established the Ericsson Silicon Valley Labs in San Jose, CA.

Ericsson Silicon Valley's primary focus of research and experimentation is to improve the performance, quality and efficiency of mobile communication. Wireless networks increasingly must support a range of applications, and this is expected to increase with the proliferation of devices, applications, and higher bandwidth. Network companies such as Ericsson must continue to research novel uses of wireless communications and how to maximize network performance under an increasingly data-heavy traffic load.

Description of the Experiment and the Objective to be Accomplished

Ericsson is seeking an experimental license to conduct low-power, indoor research focused on the application and transport of data. Specifically, the goal of the research is to examine a wide variety of apps – chat, video, etc. - to learn about their characteristics, how the apps impact the network, and how to optimize network performance. We will also include demos in this program of research.

We plan to connect a variety of commercially available user equipment to Ericsson base stations (LTE and WCDMA), and the appropriate RNC/MME and the packet core to conduct the research described above. This information will be shared with the larger ICT community, including via demos using the equipment.

We will be using a transport link for this testing. The testing should not pose a risk of interference as the tabletop antennas will be placed inside Ericsson's Silicon Valley facility and will have an ERP of 2 mW (20W output power and approximately 40dB attenuation).

The experiment will contribute to the development and utilization of the radio art by studying the variety of data the networks must handle in the new app-centric ecosystem both to understand the data that is being transported, how apps are utilizing network resources and learning how to configure the network and the apps to optimize performance.

Location Note

Through December 31, 2015, Ericsson's facility will be at 200 Holger Way, San Jose CA 95134. (This is the address we have noted elsewhere on the application.) However, Ericsson is moving to a new building, so after Jan 1, 2016, the address will be 2795 Augustine Dr., Santa Clara CA 95054. The latitude and longitude of the new address will be 37° 22' 56.4931", -121° 58' 39.4118" (37.3823592, -121.9776144).