Master Thesis –
Data Distribution In a Distributed 5G Radio Network Real Time Environment

Background
Mobile networks are used all over the world and are the corner stone for the networked society, where everything shall be connected. To support the vast amount and diversity of data expected in future networks, Ericsson are developing products to drive and support the networked society. The subjects for Master Thesis are defined to investigate and develop algorithms, architecture, tools etc. to support huge increase of speech, data and massive IoT for Radio Access Networks.

Thesis Description
Ericsson creates large scale distributed applications for 5G radio access network. In a distributed system an important area is an efficient state and data distribution.

Task
• Evaluate different key/value-dbms and mechanisms for push notification of updated data. This with the aim to use a distributed key/value database for propagation of configuration parameters in a cloud environment.

The thesis will be concluded with a result presentation for the Ericsson team.

Qualifications
This project aims at students in electrical engineering, computer science, computer engineering or similar.

Extent
1-2 students, 30hp each

Location
Ericsson AB Mjärdevi, Linköping

Preferred Starting Date
Spring 2019

Contact Persons
Johan Wibeck
johan.wibeck@ericsson.com
Michael Lundkvist
michael.lundkvist@ericsson.com