

Prepared (also subject responsible if other) <b>EZGRELI</b>		No.		
Approved	Checked	Date	Rev A	Reference

Federal Communications Commission  
 Authorization & Evaluation Division  
 7435 Oakland Mills Road  
 Columbia, Maryland 21046  
 Attention: Equipment Authorization Branch

**Subject: Class II permissive change for FCC ID: TA8AKRC161636**

To Whom It May Concern:

Ericsson AB requests a Class II Permissive Change for the above mentioned FCC Identifier.

New functionality (NB-IoT) has been added in software, as described/covered in exhibit 12 and supporting documentation.

The radio operates in the Cellular band as per 47 CFR Part 24.

This radio (Radio 4415 B2 B25) is designed for use in LTE, WCDMA, GSM cellular telephone system. This FDD radio is a dual band radio that operates in Band 2 and band 25. For B2 the transmitter band is from 1930 MHz to 1990 MHz and the receiver from 1850 MHz to 1910 MHz. For B25 the transmitter band is from 1930 MHz to 1995 MHz and the receiver from 1850 MHz to 1915 MHz.

It supports radio access technology MR L+W+G, it supports channel bandwidths of 1.4, 3, 5, 10, 15, 20 MHz for LTE, 200kHz for GSM and 4.2 to 5 MHz for WCDMA.

The radio supports modulation type GMSK, AQPSK and 8PSK for GSM, QPSK, 16 QAM and 64 QAM for WCDMA, QPSK, 16QAM, 64QAM and 256 QAM for LTE and QPSK for NB-IoT.

The radio supports spectrum consisting of two or more sub-blocks separated by sub-block gap(s), NCS (None-Contiguous Spectrum). The radio unit supports carrier aggregation.

The radio has the ability to be used in a RBS system configured for 3GPP dual TX and Quad RX technologies for GSM.

The radio has the ability to be used in a RBS system configured for 3GPP up to 2x2 MIMO/Spatial multiplexing and beam-forming technologies for WCDMA and it has the ability to be used in a RBS system configured for 3GPP up to 4x4 MIMO/Spatial multiplexing and beam-forming technologies for LTE.

The radio will in normal mode operate at a maximum power of 40 W (46 dBm) at the output connectors. The radio has four (4) combined TX/RX ports.

This radio will always require a license for transmission.

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The Exhibit 8 user manuals submitted with this application is generic and may cover multiple products.

This application is only valid for the model specified in the Exhibit 6 test report.

Ericsson AB accept by this request the agreement set out in the document "IP SPCR 125 Annex A2 Agreements on Post-market surveillance for radio equipment certified for the US market.

Ericsson AB requests confidentiality under CFR 0.459 according to attached letter. We further certify that the applicant nor any party to the application is subject to a denial of Federal benefits, that includes FCC benefits, pursuant to section 5301 of the Anti-Drug abuse Act of 1988, 21 U.S.C. Section 862.

If additional information is needed, please contact me on the below listed number.

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