



October 16, 2018

***Ex Parte***

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 12<sup>th</sup> Street SW  
Washington, DC 20554

**Re: Notification of Oral *Ex Parte*  
Applications of T-Mobile US, Inc. and Sprint Corporation for Consent to  
Transfer Control of Licenses and Authorizations; WT Docket No. 18-197**

Dear Ms. Dortch:

On Monday, October 15, at staff's request, Ericsson representatives Paul Challoner, Vice President, Network Product Solutions, Bill Chotiner, Director, Network Product Solution Evolution, Ranjeet Bhattacharya, Principal Solutions Director, Bo Hagerman, 5G Network Strategy Evolution, Stefan Calmerman, Director, Network Product Solutions, Jeff Collins, Director of 5G, and Barbara Baffer, Vice President, Government and Industry Relations spoke by telephone with members of the FCC's Transaction Team. Representatives of the FCC included Catherine Matraves (WTB), Thuy Tran (WTB), Saurbh Chhabra (WTB), Ziad Sleem (WTB), Aleks Yankelevich (OSP), Joel Rabinovitz (OGC), Ronald Repasi (OET), Robert Pavlak (OET), Chris Gao (OET), David Lawrence (WTB), Garnet Hanly (WTB), Giulia McHenry (OSP) and Charles Mathias (WTB).

Ericsson's representatives provided a technical understanding of 5G networks focusing on:

- Radio Access networks for 4G and 5G;
- Different software upgrade scenarios for 5G;
- Radio, baseband and Evolved Packet Core preparedness for 5G;
- Capacity gains of 5G NR over LTE as defined in 3GPP reports; and
- Dynamic Spectrum Sharing and the benefits sharing delivers in the upgrade process.

Mr. Challoner described the different upgrade scenarios for existing cell sites, the potential changes needed to retrofit a site, and the flexibility designed into the Ericsson Radio System. Mr. Chotiner explained the functionality of LTE A, LTE PRO and 5G, the implementation of all essential standard functionality and portions of optional standard functionality, as well as Ericsson specific innovations. Mr. Bhattacharya addressed the



functionality of 5G NR and Mr. Calmerman expanded on the software requirements and potential hardware upgrades as part of preparing for NR.

Mr. Challoner also highlighted that due to the nature of NR radio interface, the spectrum efficiency and cell edge throughputs are better than LTE and cited the 3GPP standard. The group then discussed dynamic spectrum sharing in which resources can be dynamically allocated between LTE and NR.

Finally, Mr. Collins discussed the 5G standalone core and its ability to flexibly support different architectures in the network.

Respectfully submitted,

/s/ Barbara Baffer  
Barbara Baffer  
Vice President,  
Government and Industry Relations  
Ericsson