

18th April 2016

To whom it may concern,

Subject: Samsung SOF50 Outdoor Small Cell (SLS-BP00CJ) Operation Description

Please find below a description of the operation of the Samsung SOF50 Outdoor Small Cell

The Samsung SOF50 Outdoor Small Cell provides a 4G wireless interface in accordance with the global LTE standard, providing subscribers with wireless communications services.

The equipment transmits and receives wireless signals to and from users' equipment (UE) and handsets. The SOF50 also provides an interface back to the Mobile Network Operator's core infrastructure (backbone) and from there to the public communications network and the internet.

The main function of the SOF50 is to set-up and manage calls ensuring that the coverage, quality and capacity are delivered according to the operators plans and requirements.

The SOF50 unit is designed to be deployed on buildings and street furniture in order to be physically closer to subscribers. This means the service can be delivered with lower signal power and that network capacity can be targeted to areas where demand is high or where the current coverage is poor.

The power consumption of the SOF50 is variable and proportional to the amount of communications traffic being carried by the unit. This is otherwise known as the traffic load. Typically the traffic load varies throughout the day, however the daily pattern is generally consistent and repeatable.

The diagram in Figure 1 below illustrates the typical daily load fluctuation measured on a typical cell in the network over a week in December 2015; at a site in central London. It can be observed that the load varies from approximately 20% to 80% (to the nearest 10%).

The power consumption of the SOF50 has been independently tested at two levels; idle mode (i.e. 0% load) and full-load condition (i.e. 100%). The results are provided in the accompanying report from LIA Laboratories.

Note that due to the variable nature of radio signals and the characteristics of mobile network design it is unlikely that the unit will ever reach the 100% (full-load) limit.

The information contained herein is provided to support the formal request for a charge code which is submitted together with this letter. Samsung kindly requests that the load variation be taken into account when setting a fair and proportionate charge code appropriate to the behaviour of the Samsung SOF50 Outdoor Small Cell Product under normal operating conditions.



TURN ON TOMORROW

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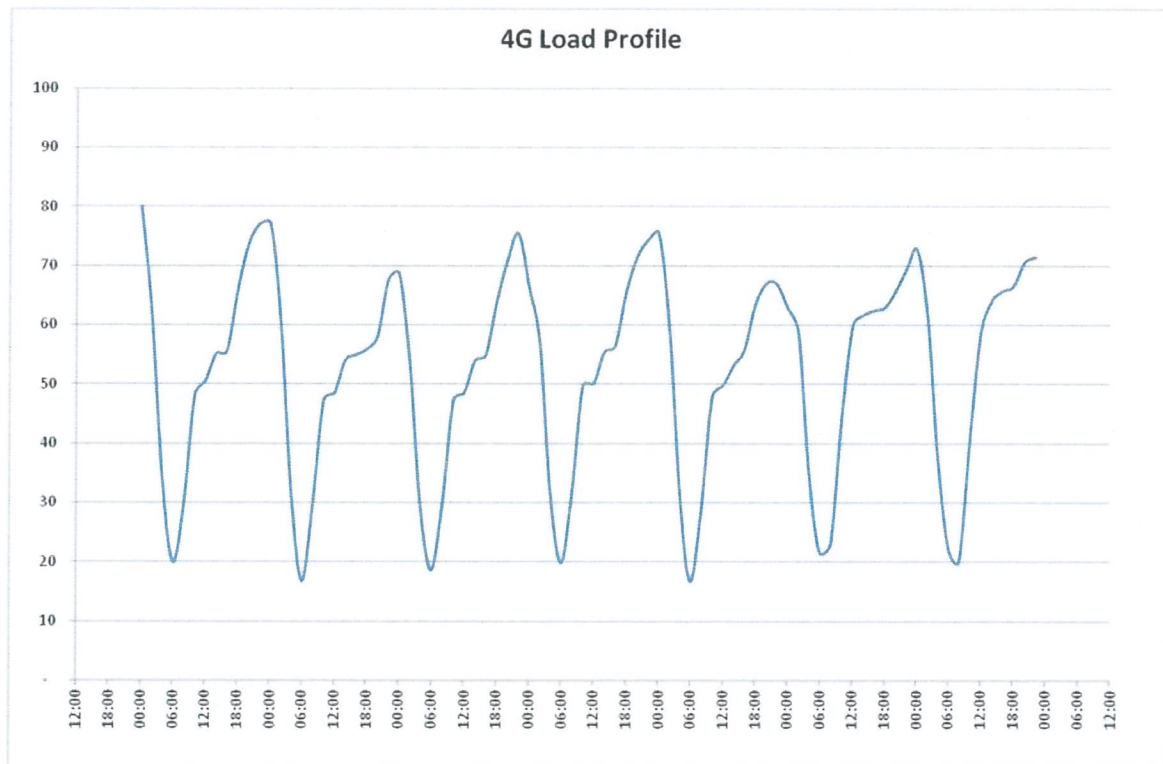


Figure1: Samsung Outdoor Small Cell Daily Load Variation December 2016 (Central London)

Yours sincerely,

Mark Thompson
Hutchison Europe Account Director
Samsung Networks Europe