

Samsung Electronics UK

**Additional comments:**

Samsung sees that many questions in the consultation are directed towards potential award participants. Samsung would not expect to be actively seeking spectrum rights and therefore has responded to selected questions only.

**Question 1: Do you agree with our proposal to award the 3.4 GHz band in a way that is consistent with an unpaired (TDD-compatible) band plan only, and to make this decision sooner rather than later? If not, please set out your reasons and any evidence for your view.:**

Yes

**Question 2: Do you agree with our proposal to vary UK Broadband's licence so that it encompasses the frequencies 3560-3600 MHz instead of 3480-3500 and 3580-3600 MHz?:**

**Question 3: Do you have any specific interest in the 3560-3580 MHz block in preference to any other 20 MHz block within the available 150MHz? If so please give your reasons and any supporting evidence.:**

**Question 4: Do you have any specific interest in acquiring a licence to use frequencies in either or both of the bands to be awarded?:**

**Question 5: How much spectrum would you be interested in acquiring? (What is the minimum and maximum amount of spectrum of interest to you?):**

**Question 6: Which of the two bands would you be interested in: 2.3 GHz, 3.4 GHz or both?:**

Samsung Electronics welcomes the UK initiative to the release further spectrum for mobile broadband applications especially to increase the availability of high speed LTE services. Both these frequency bands are internationally identified for mobile broadband applications and the developing regulatory framework for their mobile broadband use in Europe is consistent with the international basis. Samsung along with other industry stakeholders has actively supported the efforts in ETSI and CEPT to develop the European harmonisation framework for both bands. Samsung expects that this UK award activity can be the catalyst to encourage further releases of these important spectrum bands across Europe thereby encouraging wider harmonisation and unleashing the full potential for both UK and European industry and consumers. Whilst Samsung is aware that other European countries are showing an interest in releasing these bands, more may be needed to drive European spectrum policy towards full harmonisation.

Samsung also notes the European developments on Licensed Shared Access (LSA) that offers a regulatory framework to release further spectrum from incumbent use to public mobile broadband use. Noting the limited exclusive spectrum award proposed in the 2300-2400MHz band, Samsung proposes consideration of the possibility to enable LSA in the UK which could double the amount of spectrum available for mobile broadband applications (subject of course to any LSA agreements).

**Question 7: Are there specific parts of the bands you are interested in and if so what are they?:**

**Question 8: What do you envisage using the spectrum for (e.g. 4G services or other applications)?:**

Samsung Electronics believes that the most likely mobile broadband technology deployed would be TD-LTE. However, higher capacity services may be constrained by the limited bandwidth available in the 2300MHz band.

**Question 9: Where would you expect to use the spectrum (Great Britain-wide or in specific geographical areas)?:**

**Question 10: What types of device would you want to use the spectrum for, and when would they be available?:**

Samsung Electronics expects a full range of mobile consumer devices to be available and supported in due course.

**Question 11: When would you expect to make use of the spectrum?:**

**Question 12: Do you have any comments on the method of award, such as combinatorial clock auction?:**

**Question 13: Do you have any comments on whether a cap on the amount of spectrum that could be acquired through this award would be appropriate?:**

**Question 14: Do you have any preference for spectrum packaging, for example block size?:**

Samsung Electronics believes that block sizes should be consistent with the standardization activities for mobile broadband. These are largely based on a 5MHz minimum size although the assignment of wider contiguous blocks (at least 10MHz) would encourage higher capacity services.

**Question 15: Do you have any views on the non-technical licence conditions discussed in this document, including coverage and roll-out and ?use it or lose it??:**

**Question 16: What do you consider would be the optimal timing for the award?:**

**Question 17: Are there any reasons why these bands should be assigned for low-power use? Would such uses be appropriate even if purchasing a licence for low-power use would cost the same as for high- power use?:**

**Question 18: Will you use this spectrum for backhaul? If so, please state the minimum contiguous block you would require.:**