

Consultation response form

Question	Your response
Question 1: Do you agree with our assessment of the business models that could potentially emerge?	Confidential? – N I do not have useful opinions on most of these questions, but am alarmed about the potential scientific interference from such satellites. I have explained this in my response to Question 13.
Question 1(a): Are there any other business models that you think could deliver benefits for people and businesses in the UK?	Confidential? – Y / N
Question 1(b): Are there any business models that could not operate under our proposed approaches?	Confidential? – Y / N
Question 2: Do you agree with our assessment of the benefits that could be realised through authorisation of D2D services?	Confidential? – Y / N
Question 2(a): Are there any other benefits for UK citizens and businesses that could be realised?	Confidential? – Y / N
Question 3: Do you have comments on how emerging D2D technology should support 999 service provision?	Confidential? – Y / N
Question 4: Are there any mobile spectrum bands not in scope of our proposals that you think we should consider?	Confidential? – Y / N

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Question 5: Does deployment in supplementary downlink spectrum (SDL) present any challenges in comparison to other bands? Is there interest in deploying in this spectrum?	Confidential? – Y / N
Question 6: Do you agree with our proposal to limit this authorisation to the UK mainland and territorial waters? If not, please explain why.	Confidential? – Y / N
Question 7: Do you agree that our proposed technical conditions for D2D satellite emissions will protect mobile services delivered by other operators in adjacent areas and in adjacent spectrum?	Confidential? – Y / N
Question 8: Do you agree with our high-level co-existence assessment for other services in adjacent spectrum to D2D?	Confidential? – Y / N
Question 9: Are there other services co-channel or in adjacent spectrum that you think we should take into account when assessing coexistence? If so, please provide evidence of the nature of interference and what level of protection you consider is necessary.	Confidential? – Y / N
Question 10: Do you agree with our preferred authorisation approach (option 2)? If not, please set out your reasoning.	Confidential? – Y / N
Question 11: Are there any alternative authorisation options, not discussed here, that you believe are worth considering?	Confidential? – Y / N
Question 12: Do you agree with the proposed conditions?	Confidential? – Y / N
Question 13: Do you have any other comments on the proposals set out in this document?	<p>Confidential? – N</p> <p>Apologies for the briefness of this comment - I only just discovered this consultation at the last moment. Direct to device satellites tested</p>

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	<p>by AST mobile have been extremely controversial with the Astronomical community worldwide. As well as the potential for interfering with radio astronomy observatories, they are so large that the reflected sunlight is significant. Individual AST satellites can be as bright as the brightest few stars in the night sky. So far there are only small numbers of such satellites, but if this becomes common, the effect on both astronomical science, and on public enjoyment of the night sky, could become very bad. Some of us have been working with UKSA and UN COPUOS towards the idea of standardisation/limitation of the size and brightness of satellites in general. These issues should be seriously considered before encouraging too rapid a growth in this area.</p>

Please complete this form in full and return to mobilefromskyandspace@ofcom.org.uk.