

Your response

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<p>Question 1: What is the market opportunity for D2D services? What is the nature of the benefits that could be delivered to people and business in the UK and what do you estimate the magnitude of the benefits to be?</p>	<p>Probably great for those who need access to networks from difficult to serve locations.</p>
<p>Question 2: Are there any wider citizen or societal benefits that D2D services could deliver that the market might not deliver? What is the nature of these benefits and why might the market fail to deliver them? For example, what role could D2D have in improving the availability of 999 services in the UK?</p>	<p>None that I can suggest. 999 services do see well catered for already.</p>
<p>Question 3: Subject to suitable regulatory frameworks being in place, do you have an interest in offering D2D services or expanding an existing service, in the UK? Which customer segments, devices and use cases would be served? Would your D2D service complement or compete with services delivered over existing mobile?</p>	<p>No, I am not in the business of providing W2D services</p>
<p>If you have considered launching or expanding a D2D service in the UK:</p> <p>Question 4: What technology and network architecture do you consider appropriate to use to deliver D2D services? For example, what altitude and how many HAPS, LAPS or satellites would be required to deliver an initial service?</p> <p>We're aware that different technologies and network architectures will have different costs, performance, and spectrum efficiency trade-offs.</p>	<p>No. The technical issues are vast and would need to integrate all of the potential services and their providers into a common protocol/delivery mechanism.</p>

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<p>Question 5: What capacity (e.g., Mbps/Km²/MHz) and quality of service (e.g., latency) could be delivered with the D2D service you are proposing? What percentage of the UK landmass could be covered, and would coverage be provided indoors?</p>	<p>I am not proposing any as a service provider but voice type services might be acceptable at medium/high latency but data service latencies must be commensurate with the data rates offered - Ideally low or very low. Difficult to achieve with the round-trip delays using satellite links.</p> <p>It would not be necessary to serve the entire UK land mass with D2D services. Since the service would be aimed at individuals and small communities, indoor coverage would not be a pre-requisite for many users.</p>
<p>Question 6: To inform our future policy development, which spectrum band would you like to deploy the service in? How much bandwidth would be required to provide the service at launch?</p>	<p>No preference as there would be trade-offs whatever bands were used.</p>
<p>Question 7: What take-up profile do you assume in your planning? For example, the number of active devices, monthly calls made, and data transferred per device. What is the roadmap for enhancing your network to meet anticipated future growth? What additional infrastructure and/or spectrum would be required? When?</p>	<p>I am not proposing to offer a network, however, it would seem appropriate to provide services to remote locations and those using standard cellular telephone equipment.</p>
<p>Question 8: What are the use cases and the benefits these services would deliver? What technology, network infrastructure and frequencies would be required to deliver the service? What are the advantages of using this MSS spectrum compared to other bands?</p>	<p>Savings on terrestrial cabling infrastructure provision.</p>
<p>Question 9: What current, or future, technology developments will offer the opportunity for more efficient use of MSS spectrum? E.g., more spectrally efficient, or greater ability to share spectrum.</p>	<p>I don't know...</p>

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<p>Question 10: Could your existing, or proposed, service coexist with other users of the same frequencies within the MSS spectrum bands? If so, how is coexistence achieved? If not, please explain why sharing is not possible.</p>	No
<p>Question 11; Do you expect D2D services to be available prior to WRC-27? What services and benefits do you think an authorisation prior to WRC-27 might bring to UK consumers and businesses?</p>	No
<p>Question 12: Are there any mobile bands that should be prioritised for satellite based D2D?</p>	No
<p>Question 13: Are there existing systems that you consider could be subject to an increased risk of harmful interference from the introduction of satellite based D2D using mobile bands? If yes, are there specific mobile bands that you consider should be avoided to reduce this risk?</p>	No
<p>Question 14: Do you have any views on how spectrum for D2D services should be authorised? Does this vary by band, or type of NTN? Please explain the reasoning behind your preference.</p>	No
<p>Question 15: Are there any other points that you think would be useful in our considerations? In providing your response, please provide as much evidence as possible.</p>	<p>Most vital of all considerations must be that of network security. With satellites accessible from wide areas of the globe there will be those who seek to link and either steal, disrupt or modify data carried by these links.</p>

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