O2 MOBILE BROADBAND TRAFFIC MANAGEMENT KEY FACTS INDICATOR*

Section 1: Traffic management in relation to your broadband product (not including during busy times and places to manage network congestion see Section 2)									
Name of broadband product:									
All Consumer Mobile Broadband and Mobile phone tariffs (Pay Monthly and Pay & Go); And More Tariffs (20GB and 40GB) (Pay Monthly Only)									
		, content, application a		cole on ti	his product				
						N			
If so what? N/A	п, аррпса	cations or protocols always blocked on this product?** N							
· ·	t. applica	applications or protocols always slowed down?							
If so what? N/A	.,	у				N			
	it, applica	cations or protocols always prioritised?							
		oice traffic							
Are any managed servic									
If so, what? N/A									
What impact?									
Data caps and downloa									
What are the download/u	upload lin								
on this product?		See below for And More			nd More Tari	ffs			
Is traffic management us		nage compliance with Y			Υ				
data caps and download		<u> </u>							
Under what circumstance	es?	A 1 11 (100							
		And More tariff							
		For our And More tariff, once the monthly data allowance is							
		reached, data can continue to be used, but at a reduced speed,							
		until the next contract month begins. During this reduced speed							
		period, certain services may be slow or may not work. At the lowest these speeds may be as low as 125 kbps.							
		Other mobile tariffs							
		For all our other mobile phone tariffs, a customers' service will							
		cease when their monthly tariff allowance is consumed and until							
		they begin a new charging month or additional allowance is purchased.							
		USB Dongles							
		For USB Dongle customers', the service will cease when the data cap is reached until additional data allowance is purchased.							
Level of speed reduction	?	See above.							
Duration of speed reduction? See above.									
Is traffic management used in relation to heavy users?									
Under what circumstances? Customers whose use is so excessive that other customers are									
			eted will be warned to adjust their usage or risk						
		disconnection.			•	J			
Level of speed reduction	?	N/A							
Duration of speed reduction? N/A									
		to optimise network uti							
		and places in addition to t	raffic man	agement a	as described	in section 1)			
Is traffic management used during				-					
When are typical peak hours?		Weekdays: Weekends:							
What type of traffic is ma									
Traffic type	Blocked	d Slowe	d down		Prioritised				
Peer to Peer (P2P)									
Newsgroups									
Browsing/email									
VOIP (Voice over IP)									
Gaming	1				i				

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A								
Audio streaming								
Video streaming								
Music downloads								
Video downloads								
Instant messaging								
Software updates								
Is traffic management use	fic management used to manage congestion in particular locations?							
If so how?	Roaming within The European Union							
	O2 Pay Monthly Customers roaming within The EU may experience limited							
	throughput of up to 1Mbit/s for data services during seasonal traffic peaks,							
	which could slow some services down.							
	Roaming outside The European Union							
	O2 Travel customers roaming outside The EU who exceed 50Mb of data							
	per day will experience limited throughput for web browsing, e-mail, social							
	networking, video and VPN services, which may slow these services down.							
	O2 Travel customers' roaming outside The EU who use Peer to Peer, file							
	transfer, network storage or gaming applications or services, will be							
	provided with limited throughput which will slow these services down.							

^{*} This KFI gives an overview of typical traffic management practices undertaken on this product; it does not cover circumstances where exceptional external events may impact on network congestion levels.

Glossary

Traffic management:

Traffic management is the term used to describe a range of technical practices undertaken to manage traffic across networks.

The different outcomes achieved by the use of technical practices can include:

- the prioritisation of certain types of traffic in busy times or busy areas to ensure that it is of an adequate quality
- the slowing down of certain traffic types that are not time-critical at busy times or busy places
- ensuring compliance with a consumer's contract, for example slowing down of traffic for the heaviest users
- supporting the delivery of managed services, for example to ensure a guaranteed quality of service for a specific piece of content

Managed services: The majority of internet traffic is delivered on a "best efforts" basis. A managed service, on the other hand is one whereby an ISP offers "quality of service" that can guarantee a certain level of performance, so that the content, service or application can be delivered without risk of degradation from network congestion. Such a quality of service arrangement can be made between an ISP and a content or service provider or directly between an ISP and the consumer.

^{**}This excludes any service, content, application or protocol that an ISP is required to block by UK law and child abuse images as informed by the list provided by the Internet Watch Foundation.

^{***}If no entry is shown against a particular traffic type, no traffic management is typically applied to it, though overall network management rules shall apply.

^{****} In addition to the above practices, O2 also modifies some traffic to optimise the end-user experience. The rationale for doing so is to make best use of network capacity to support real-time applications and make efficient use of data allowances.

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Best Efforts: This phrase relates to the delivery of internet traffic where traffic management is applied without distinctions based on the source of that traffic.

Slowed down: This outcome is achieved by the deployment of technologies that can decrease the priority of traffic types deemed to be non-time critical on the network e.g. slowing down traffic such as downloads during busy times and busy periods.

Prioritised: This outcome is achieved by the deployment of technologies that increase the priority given to certain traffic types, e.g. time-critical traffic such as video. This outcome can also be achieved as a consequence of slowing down other selected traffic which reduces the overall data flow on the network.

Heavy users: Heavy users can cause peak traffic volumes to exceed the engineered maximum load. In practice this refers to a very small proportion of users of a network whose use is excessive to the extent that it impacts on other users.

For information from Ofcom on Traffic Management, visit https://www.ofcom.org.uk/_data/assets/pdf_file/0012/6042/traffic.pdf