

# Spectrum Access 28 GHz licences, frequencies and regions

	27.8285 – 28.0525 GHz paired with 28.8365 – 29.0605 GHz	28.0525 – 28.1645 GHz paired with 29.0605 – 29.1725 GHz	2 x 28 MHz	28.1925 – 28.3045 GHz paired with 29.2005 – 29.3125 GHz	2 x 28 MHz	28.3325 – 28.4445 GHz paired with 29.3405 – 29.4525 GHz	
	(2 x 224 MHz)	(2 x 112 MHz)		(2 x 112 MHz)		(2 x 112 MHz)	
<b>A</b>	<b>Arqiva</b>	<b>Telefónica UK</b>		<b>Arqiva</b>		<b>UK Broadband</b>	
<b>B</b>		<b>Vodafone</b>		<b>Telefónica UK</b>		<b>UK Broadband</b>	
<b>C</b>		<b>Telefónica UK</b>		<b>Vodafone</b>		<b>UK Broadband</b>	
<b>D</b>		<b>Vodafone</b>			<b>UK Broadband</b> <small>(Spectrum traded to Arqiva Ltd at 6 locations)</small>		<b>UK Broadband</b>
<b>E</b>							
<b>F</b>							
<b>G</b>							
<b>H</b>							
<b>I</b>							
<b>J</b>		<b>Telefónica UK</b>		<b>Vodafone</b>			
<b>K</b>		<b>Vodafone</b>			<b>Vodafone</b>		
<b>L</b>					<b>UK Broadband</b>		
<b>M</b>					<b>Telefónica UK</b>		
<b>N</b>		<b>Telefónica UK</b>			<b>UK Broadband</b> <small>(Spectrum traded to Arqiva Ltd at 6 locations)</small>		

**Spectrum Access complying with IR 2048 – First awarded December 2000**

**Spectrum Access complying with IR 2048 – First awarded February 2008**

Spectrum Access frequency packages				
<b>National (Arqiva)</b>	27.8285 – 28.0525 GHz	<i>paired with</i>	28.8365 – 29.0605 GHz	(2 x 224 MHz)
<b>Package 1</b>	28.0525 – 28.1645 GHz	<i>paired with</i>	29.0605 – 29.1725 GHz	(2 x 112 MHz)
<b>Guard-band</b>				(2 x 28 MHz)
<b>Package 2</b>	28.1925 – 28.3045 GHz	<i>paired with</i>	29.2005 – 29.3125 GHz	(2 x 112 MHz)
<b>Guard-band</b>				(2 x 28 MHz)
<b>Package 3</b>	28.3325 – 28.4445 GHz	<i>paired with</i>	29.3405 – 29.4525 GHz	(2 x 112 MHz)



Region A:	Greater London
Region B:	Greater Manchester, Merseyside & Cheshire
Region C:	West Midlands, Warwickshire, Staffordshire, Worcestershire, Shropshire & Herefordshire
Region D:	Isle of Wight, Hampshire, Berkshire & Oxfordshire
Region E:	Essex, Hertfordshire & Buckinghamshire
Region F:	Suffolk, Norfolk, Bedfordshire, Cambridgeshire & Northamptonshire
Region G:	Derbyshire, Lincolnshire (other than North & North East Lincolnshire District Councils), Leicestershire, Nottinghamshire & Rutland
Region H:	Kent, Surrey, East Sussex & West Sussex
Region I:	East Riding of Yorkshire, North, West & South Yorkshire, North & North East Lincolnshire District Councils
Region J:	Tyne and Wear, Durham, Northumberland, Cumbria & Lancashire
Region K:	Bristol, Devon, Cornwall and the Isles of Scilly, Dorset, Somerset, Wiltshire & Gloucestershire
Region L:	Scotland
Region M:	Wales
Region N:	Northern Ireland