INTERNATIONAL HARMONIZATION STATUS REPORT

1755-1780 MHz and 2155-2180 MHz

February 2013

This joint Wireless Broadband Coalition-CTIA report summarizes information from government sources about current commercial usage and government decisions to designate the 1755-1780 MHz and 2155-2180 MHz bands for commercial use. In reviewing source country data, we found that spectrum usage and allocation information in several countries includes / contains incomplete data, displays its data using broader allocations (1700-1800 MHz and 2100-2200 MHz for example), or both. The color-coding system reflects the source data (see key on P. 5 for details). That data is also detailed in the attached notes. Finally, since the WRC designated bands encompassing 1755-1780 MHz and 2155-2180 MHz for commercial usage globally, this survey assumes that both bands remain under review for potential commercial allocation unless otherwise noted by source country data.

Country	Bands Used Commercially	Designated for Commercial Use	Additional Information on Review Status
Africa			
Algeria /p		Yes	
Angola /y		Yes	
Benin /p		Yes	
Botswana /y, p		Yes	
Burkina Faso /p			
Burundi /p		Yes	
Cameroon /p			
Cape Verde /p		Yes	
Central African Republic /p		Yes	
Chad /p		Yes	
Comoros /p		Yes	
Congo /p		Yes	
Congo (Democratic Republic of) /q, y	Yes	Yes	
Cote d'Ivoire /p		Yes	
Djibouti /q			
Egypt /q	Yes	Yes	
Equatorial Guinea /p		Yes	
Eritrea /q			
Ethiopia /q			
Gabon /tt		Yes	
Gambia /p		Yes	
Ghana /p		Yes	
Guinea /p		Yes	
Guinea-Bissau /q		Yes	
Kenya /p		Yes	
Lesotho /y, q		Yes	
Liberia /q, qq, cc			
Libya /p			
Madagascar /y		Yes	

Malawi /y, p		Yes	
Mali /p, cc			
Mauritania /p		Yes	
Mauritius /y, p		Yes	
Morocco /p		Yes	
Mozambique /q, p, y	Yes	Yes	
Namibia /t, y	Yes	Yes	
Niger /p		Yes	
Nigeria /q	Yes	Yes	
Reunion /q	Yes		
Rwanda /p		Yes	
Sao Tome & Principe /p			
Senegal /p		Yes	
Seychelles /y, p		Yes	
Sierra Leone /p		Yes	
Somalia /p		Yes	
South Africa /q, s	Yes		
South Sudan /p		Yes	
Sudan /p		Yes	
Swaziland /y, p		Yes	
Tanzania /y		Yes	
Togo /p, cc			
Tunisia /p		Yes	
Uganda /uu	Yes		
Western Sahara			
Zambia /y		Yes	
Zimbabwe /y		Yes	
Asia/Middle East			
Afghanistan /p		Yes	
Bahrain /u	Yes		
Bangladesh /z, q	Yes	Yes	
Bhutan /p		Yes	
Brunei /f, g		Yes	
Cambodia /ee, q	Yes		
China, Hong Kong /h, dd	Yes		
China (Mainland) /p, dd		Yes	
China (Macau) /ee, q	Yes		
East Timor /p		Yes	
India /i, ss, l	Yes	Yes	
Indonesia /ee, q	Yes		
Iran /p		Yes	
Iraq /p		Yes	
Israel /v	Yes		
Japan /q	Yes		
Jordan /r	Yes		
Kazakhstan /q	Yes	Yes	

Korea North /p		Yes	
Korea South /ee, q	Yes		
Kuwait /p		Yes	
Kyrgyzstan /p		Yes	
Laos /p		Yes	
Lebanon /w		Yes	
Malaysia /aa, q	Yes		
Maldives /p		Yes	
Mongolia /p, ee	Yes	Yes	
Myanmar (Burma) /p, ee		Yes	
Nepal /vv	Yes	Yes	
Oman /ww		Yes	
Pakistan /m		Yes	
Papua New Guinea /ee			Yes
The Philippines /q, p	Yes	Yes	
Qatar /x		Yes	
Russia /p, c, q	Yes	Yes	
Saudi Arabia /xx		Yes	Yes
Singapore /q, n	Yes	Yes	
Sri Lanka /o			
Syria /p		Yes	
Taiwan /q	Yes		
Tajikistan /p		Yes	
Thailand /ee	Yes		
Turkmenistan /p		Yes	
United Arab Emirates /q		Yes	
Uzbekistan /p		Yes	
Vietnam /ee, q	Yes		
Yemen /p			
Australia/ New Zealand			
Australia /a, ee	Yes		
New Zealand /b, ee, q	Yes	Yes	
French Polynesia (ex-Tahiti) /q	Yes		
Europe /c			
Albania /c, q	Yes		
Armenia /c, q	Yes		
Austria /c, q	Yes		
Azerbaijan /c, q	Yes		
Belarus			
Belgium /c, q	Yes		
Bosnia & Herzegovina /c, q	Yes		
Bulgaria /gg, hh	Yes		
Croatia /p		Yes	
Cyprus	Yes		
Czech Republic	Yes		
Denmark /c, q	Yes		

Estonia /c, q	Yes		
Finland /c, q	Yes		
France /c, q	Yes		
Georgia	Yes		
Germany /c, q	Yes		
Greece /c, q	Yes	Yes	
Hungary /c, q	Yes		
Iceland	Yes		
Ireland	Yes		
Italy	Yes		
Latvia /c, q	Yes		
Liechtenstein	Yes		
Lithuania	Yes		
Luxembourg	Yes		
Macedonia (former Yogoslav Republic of) /ii		Yes	
Moldova /jj		Yes	
Malta	Yes		
Montenegro /c, q	Yes		
The Netherlands /c, q	Yes		
Norway	Yes		
Poland	Yes		
Portugal /c, q	Yes		
Romania /kk, ll			Yes
Serbia /c, q	Yes		
Slovak Republic /c, q	Yes		
Slovenia	Yes		
Spain /c, q	Yes		
Sweden	Yes		
Switzerland	Yes		
Turkey	Yes		
Ukraine /c, q	Yes		
United Kingdom /c, q	Yes		
Central and South America /d			
Antigua and Barbuda			
Argentina			Yes
Barbados			
Belize /d, mm			
Bolivia /yy		Yes	
Brazil	Yes		
Chile /p			
Colombia		Yes	
Costa Rica /d, nn			Yes
Cuba			
Dominica (Commonwealth of) /d, zz		Yes	
Dominican Republic /p			

Ecuador			Yes
French Guiana			
El Salvador			
Grenada /d, zz		Yes	Yes
Guatemala		Yes	
Guyana /oo		Yes	
Haiti			
Honduras /p			
Jamaica			
Mexico /aaa		Yes	
Nicaragua /pp			
Panama /k		Yes	
Paraguay			Yes
Peru /qq		Yes	Yes
Saint Kitts and Nevis /zz		Yes	
Saint Lucia /d, zz	Yes	Yes	Yes
Saint Vincent and the Grenadines /zz		Yes	
Suriname /rr	Yes		
The Bahamas (Commonwealth of) /p			
Trinidad and Tobago /bb, ff	Yes		Yes
Uruguay			Yes
Venezuela (Bolivarian Republic of)			Yes
North America /d			
United States /d, e		Yes	
Canada /d, j			

Color-coding

1755-1780 Only
2155-2180 Only
Both 1755-1780 and 2155-2180
1700-1800 MHz
2100-2200 MHz
Both 1700-1800 and 2100-2200

a Source: Australian Five Year Spectrum Outlook, 2012

b Source: Table of Radio Spectrum Usage, New Zealand, 2011

c Source: European Communications Office Report, October 2012

d Source: Organization of American States IMT Implementation Plan Report, November 2011

e Source: FCC Online Table of Frequency Allocations, pp.163-64. Revised: January 5,2012

f Source: AITI Radiofrequency Band Plans, Brunei

g Source: AITI Brunei Radiofrequency Spectrum Allocations

h Source: China Contact Center Solutions, January 21, 2009

i Source: India Department of Telecommunications, Notice Inviting Applications, February 25, 2010

j Source: Canada Spectrum Auctions

k Source: Panama National Frequency Allocation, 2010

l Source: India, National Frequency Plan 2011

m Source: Pakistan Telecommunication Authority, Table of Frequency Allocations, 2004

n Source: Singapore IDA, Spectrum Management Handbook, 2012

o Source: Sri Lanka TRC, Frequency Allocations - Cellular Mobile Operators

p Source: GSM Association, GSM Roaming and Coverage Maps.

q Source: World Cellular Information Service (WCIS) Database

r Source: Jordan TRC, Consultation on Spectrum Requirements of 800MHz to 2100MHz Bands, 2011

s Source: South Africa ICASA, Spectrum Usage & Spare Broadcasting Frequencies, 2012

t Source: CRAN, Government Gazette of the Republic of Namibia, Aug. 2011

u Source: Bahrain TRA, Spectrum Policy and Planning, 2012

v Source: Israel MOC, License Auctions

w Source: Lebanon TRA, Decisions, 2011

x Source: Qatar, Radio Spectrum Policy Consultation, Oct. 2010

y Source: SADC Frequency Allocation Plan, May 2010

z Source: Bangladesh National Frequency Allocation Plan, 2009

aa Source: Malaysian National Spectrum Plan Frequency Allocation Table

bb Source: Telecommunications Authority of Trinidad and Tobago, 2009

cc Source: West African Common Market Project, 2005

dd Source: Chinese Frequency Spectrum Management

ee Source: APT Report on Information of Mobile Operators' Frequencies, Technologies and License Durations in Asia Pacific Countries, Sept. 2010.

ff Source: Trinidad and Tobago Spectrum Recommendations, 2012

gg Source: Bulgarian ECA

hh Source: Bulgarian Frequency Chart

ii Source: Plan for Radio Frequency Assignments, Republic of Macedonia

jj Source: National Table of Frequency Allocations, Moldova

kk Source: ANCOM Action Plan of Romania, 2012

ll Source: NTFA Romania, 2010-2011

mm Source: Belize Telecommunications Act, 2002

nn Source: SUTEL, Costa Rica, 2009

oo Source: Guyana Frequency Allocation Chart

pp Source: Nicaragua Telcor

qq Source: Peru Allocation

rr Source: Suriname Allocation

ss Source: India 1800 MHz Auction Results, 2012

tt Source: Gabon Radio Frequency Allocation

uu Source: Uganda Usage of Access Bands, 2012

vv Source: Nepal, Spectrum Policy, 2000

ww Source: Oman Spectrum Plan

xx Source: Saudi Arabia Spectrum Plan

yy Source: Bolivia Frequency Plan, 2012

zz Source: ECTEL Footnotes 388A and 388B

aaa Source: Mexican COFETEL, 2011