

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

**E.218** 

(05/2004)

SERIES E: OVERALL NETWORK OPERATION, TELEPHONE SERVICE, SERVICE OPERATION AND HUMAN FACTORS

International operation – Maritime mobile service and public land mobile service

Management of the allocation of terrestrial trunk radio Mobile Country Codes

ITU-T Recommendation E.218

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### **ITU-T Recommendation E.218**

Management	of the	allocation	of 1	terrestrial	trunk	radio	Mobile	Country	Codes
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#### **Summary**

This Recommendation specifies the structure of the terrestrial trunk radio ITSI, and describes the manner by which the ITU-TSB shall allocate and manage the (T)MCC.

The administration of the (T)MNC by a National Administration is a national matter and is therefore outside of the scope of this Recommendation.

#### Source

ITU-T Recommendation E.218 was approved on 28 May 2004 by ITU-T Study Group 2 (2001-2004) under the WTSA Resolution 1 procedure.

#### **FOREWORD**

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

#### **NOTE**

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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#### ITU-T Recommendation E.218

### Management of the allocation of terrestrial trunk radio Mobile Country Codes

#### 1 Scope

This Recommendation specifies the structure of the terrestrial trunk radio ITSI, and describes the manner by which the ITU-TSB shall allocate and manage the (T)MCC.

The administration of the (T)MNC by a National Administration is a national matter and is therefore outside of the scope of this Recommendation.

#### 2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

- ITU-T Recommendation E.190 (1997), Principles and responsibilities for the management, assignment and reclamation of E-series international numbering resources.
- ITU-T Recommendation E.212 (2004), *The international identification plan for mobile terminals and mobile users*.
- ITU-T Recommendation X.121 (2000), *International numbering plan for public data networks*.

#### 3 Abbreviations

This Recommendation uses the following abbreviations:

IMSI International Mobile Subscriber Identity

ITSI Individual Terrestrial trunk radio Subscriber Identity

MCC Mobile Country Code

MNC Mobile Network Code

NRA National Regulatory Authority

SSI Short Subscriber Identity

(T)MCC Terrestrial trunk radio Mobile Country Code(T)MNC Terrestrial trunk radio Mobile Network Code

#### 4 Structure of the ITSI

The ITSI is a different numbering resource than the E.212 IMSI, and though the structure has some commonality to ITU-T Rec. E.212 IMSI identity, the ITSI differs in the length of its component parts.

An Individual Terrestrial trunk radio Subscriber Identity (ITSI) has three component parts:

- a Terrestrial trunk radio Mobile Country Code ((T)MCC);
- a Terrestrial trunk radio Mobile Network Code ((T)MNC); and
- a network-specific short subscriber identity (SSI).

These parts have fixed number lengths.

The ITSI structure and format are as shown in Figure 1.

Terrestrial trunk radio Mobile Country Code (T)MCC	Terrestrial trunk radio Mobile Network Code (T)MNC	Network-Specific Short Subscriber Identity SSI
10 bits	14 bits	24 bits
3 digits	Up to 4 digits	8 digits

Figure 1/E.218 – Structure of ITSI

The format of the number is defined only at the air interface, where each part is separately encoded as a binary string.

# 5 Allocation and administration of Terrestrial trunk radio Mobile Country Codes ((T)MCC))

Terrestrial trunk radio Mobile Country Codes have the same digit representation as E.212 Mobile country codes. However, the (T)MCC is a separate and distinct resource. Prior to the ITU-TSB administering the (T)MCC, a terrestrial trunk radio industry body administered the resource. A consequence of this situation is that an initial allocation of (T)MCCs has been made. The initial allocation appears in Annex A. However, it was recognized that under such an administrative regime, not all Administrations would know of such an allocation. This Recommendation can be taken as notification of the allocation to (T)MCC resources to the Administrations.

Annex A shall only be updated when there are subsequent allocations to the E.212 MCC. The same digits shall be used in the (T)MCC list as used in the E.212 MCC list.

A (T)MCC shall not be allocated independently of E.212 MCC allocations. If an Administration were to apply for a (T)MCC and that Administration did not have an E.212 MCC, then the ITU-TSB should advise that Administration to apply for an E.212 MCC first. (T)MCC allocation will only occur when a future E.212 MCC allocation is made.

A (T)MCC shall be allocated only to national Administrations which have been allocated country-specific E.212 MCC. There shall be no allocation of (T)MCCs to entities other than national Administrations. Where E.212 MCCs have been allocated or in future are allocated to such entities, then the (T)MCC equivalent shall be marked "Reserved" and should not be used within terrestrial trunk radio systems.

# 6 Allocation and administration of Terrestrial trunk radio Mobile Network Codes ((T)MNC))

The administration of Terrestrial trunk radio Mobile Network Codes is a national matter. Further guidance on the administration of the elements of the ITSI, other than the (T)MCC, is found in the bibliography.

## Annex A

# **Initial allocation of Terrestrial trunk radio Mobile Country Codes**

## A) List of terrestrial trunk radio Mobile Country Codes – Numerical order

Code	Country or Geographical area	Code	Country or Geographical area
0XX	Reserved (Note 1)	278	Malta
1XX	Reserved (Note 1)	280	Cyprus (Republic of)
202	Greece	282	Georgia
204	Netherlands (Kingdom of the)	283	Armenia (Republic of)
206	Belgium	284	Bulgaria (Republic of)
208	France	286	Turkey
212	Monaco (Principality of)	288	Faroe Islands
213	Andorra (Principality of)	290	Greenland (Denmark)
214	Spain	292	San Marino (Republic of)
216	Hungary (Republic of)	293	Slovenia (Republic of)
218	Bosnia and Herzegovina	294	The Former Yugoslav Republic of Macedonia
219	Croatia (Republic of)	295	Liechtenstein (Principality of)
220	Serbia and Montenegro	302	Canada
222	Italy	308	Saint Pierre and Miquelon (Collectivité
225	Vatican City State		territoriale de la République française)
226	Romania	310	United States of America
228	Switzerland (Confederation of)	311	United States of America
230	Czech Republic	312	United States of America
231	Slovak Republic	313	United States of America
232	Austria	314	United States of America
234	United Kingdom of Great Britain and Northern	315	United States of America
	Ireland	316	United States of America
235	United Kingdom of Great Britain and Northern Ireland	330	Puerto Rico
238	Denmark	332	United States Virgin Islands
240	Sweden	334	Mexico
242	Norway	338	Jamaica
244	Finland	340	Martinique (French Department of)
246	Lithuania (Republic of)	340	Guadeloupe (French Department of)
247	Latvia (Republic of)	342	Barbados
248	Estonia (Republic of)	344	Antigua and Barbuda
250	Russian Federation	346	Cayman Islands
255	Ukraine	348	British Virgin Islands
257	Belarus (Republic of)	350	Bermuda
259	Moldova (Republic of)	352	Grenada
260	Poland (Republic of)	354	Montserrat
262	Germany (Federal Republic of)	356	Saint Kitts and Nevis
266	Gibraltar	358	Saint Lucia
268	Portugal	360	Saint Vincent and the Grenadines
270	Luxembourg	362	Netherlands Antilles
272	Ireland	363	Aruba
274	Iceland	364	Bahamas (Commonwealth of the)
276	Albania (Republic of)	365	Anguilla
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Code	Country or Geographical area	Code	Country or Geographical area
366	Dominica (Commonwealth of)	472	Maldives (Republic of)
368	Cuba	502	Malaysia
370	Dominican Republic	505	Australia
372	Haiti (Republic of)	510	Indonesia (Republic of)
374	Trinidad and Tobago	514	Democratic Republic of Timor-Leste
376	Turks and Caicos Islands	515	Philippines (Republic of the)
400	Azerbaijani Republic	520	Thailand
401	Kazakstan (Republic of)	525	Singapore (Republic of)
402	Bhutan (Kingdom of)	528	Brunei Darussalam
404	India (Republic of)	530	New Zealand
405	India (Republic of)	534	Northern Mariana Islands (Commonwealth of
410	Pakistan (Islamic Republic of)	331	the)
412	Afghanistan	535	Guam
413	Sri Lanka (Democratic Socialist Republic of)	536	Nauru (Republic of)
414	Myanmar (Union of)	537	Papua New Guinea
415	Lebanon	539	Tonga (Kingdom of)
416	Jordan (Hashemite Kingdom of)	540	Solomon Islands
417	Syrian Arab Republic	541	Vanuatu (Republic of)
418	Iraq (Republic of)	542	Fiji (Republic of)
419	Kuwait (State of)	543	Wallis and Futuna (Territoire français d'outre-
420	Saudi Arabia (Kingdom of)		mer)
421	Yemen (Republic of)	544	American Samoa
422	Oman (Sultanate of)	545	Kiribati (Republic of)
424	United Arab Emirates	546	New Caledonia (Territoire français d'outre-mer)
425	Israel (State of)	547	French Polynesia (Territoire français d'outre-mer)
426	Bahrain (Kingdom of)	548	Cook Islands
427	Qatar (State of)	549	Samoa (Independent State of)
428	Mongolia	550	Micronesia (Federated States of)
429	Nepal	551	Marshall Islands (Republic of the)
430	United Arab Emirates (Note 2)	552	Palau (Republic of)
431	United Arab Emirates (Note 2)	602	Egypt (Arab Republic of)
432	Iran (Islamic Republic of)	603	Algeria (People's Democratic Republic of)
434	Uzbekistan (Republic of)	604	Morocco (Kingdom of)
436	Tajikistan (Republic of)	605	Tunisia
437	Kyrgyz Republic	606	Libya (Socialist People's Libyan Arab Jamahiriya)
438	Turkmenistan	607	Gambia (Republic of the)
440	Japan	608	Senegal (Republic of)
441	Japan	609	Mauritania (Islamic Republic of)
450	Korea (Republic of)	610	Mali (Republic of)
452	Viet Nam (Socialist Republic of)	611	Guinea (Republic of)
454	Hongkong, China	612	Côte d'Ivoire (Republic of)
455	Macao, China	613	Burkina Faso
456	Cambodia (Kingdom of)	614	Niger (Republic of the)
457	Lao People's Democratic Republic	615	Togolese Republic
460	China (People's Republic of)	616	Benin (Republic of)
461	China (People's Republic of)	617	Mauritius (Republic of)
466	Taiwan, China	618	Liberia (Republic of)
467	Democratic People's Republic of Korea	619	Sierra Leone
470	Bangladesh (People's Republic of)	620	Ghana
		1	

Code	Country or Geographical area	Code	Country or Geographical area
621	Nigeria (Federal Republic of)	651	Lesotho (Kingdom of)
622	Chad (Republic of)	652	Botswana (Republic of)
623	Central African Republic	653	Swaziland (Kingdom of)
624	Cameroon (Republic of)	654	Comoros (Union of the)
625	Cape Verde (Republic of)	655	South Africa (Republic of)
626	Sao Tome and Principe (Democratic Republic of)	657	Eritrea
627	Equatorial Guinea (Republic of)	702	Belize
628	Gabonese Republic	704	Guatemala (Republic of)
629	Congo (Republic of the)	706	El Salvador (Republic of)
630	Democratic Republic of the Congo	708	Honduras (Republic of)
631	Angola (Republic of)	710	Nicaragua
632	Guinea-Bissau (Republic of)	712	Costa Rica
633	Seychelles (Republic of)	714	Panama (Republic of)
634	Sudan (Republic of the)	716	Peru
635	Rwandese Republic	722	Argentine Republic
636	Ethiopia (Federal Democratic Republic of)	724	Brazil (Federative Republic of)
637	Somali Democratic Republic	730	Chile
638	Djibouti (Republic of)	732	Colombia (Republic of)
639	Kenya (Republic of)	734	Venezuela (Bolivarian Republic of)
640	Tanzania (United Republic of)	736	Bolivia (Republic of)
641	Uganda (Republic of)	738	Guyana
642	Burundi (Republic of)	740	Ecuador
643	Mozambique (Republic of)	742	French Guiana (French Department of)
645	Zambia (Republic of)	744	Paraguay (Republic of)
646	Madagascar (Republic of)	746	Suriname (Republic of)
647	Reunion (French Department of)	748	Uruguay (Eastern Republic of)
648	Zimbabwe (Republic of)	8XX	Reserved
649	Namibia (Republic of)	901	Not allocated
650	Malawi	•	

## B) List of terrestrial trunk radio Mobile Country Codes – Alphabetical order

Code	Country or Geographical area	Code	Country or Geographical area
412	Afghanistan	426	Bahrain (Kingdom of)
276	Albania (Republic of)	470	Bangladesh (People's Republic of)
603	Algeria (People's Democratic Republic of)	342	Barbados
544	American Samoa	257	Belarus (Republic of)
213	Andorra (Principality of)	206	Belgium
631	Angola (Republic of)	702	Belize
365	Anguilla	616	Benin (Republic of)
344	Antigua and Barbuda	350	Bermuda
722	Argentine Republic	402	Bhutan (Kingdom of)
283	Armenia (Republic of)	736	Bolivia (Republic of)
363	Aruba	218	Bosnia and Herzegovina
505	Australia	652	Botswana (Republic of)
232	Austria	724	Brazil (Federative Republic of)
400	Azerbaijani Republic	348	British Virgin Islands
364	Bahamas (Commonwealth of the)	528	Brunei Darussalam

Code	Country or Geographical area	Code	Country or Geographical area
284	Bulgaria (Republic of)	266	Gibraltar
613	Burkina Faso	202	Greece
642	Burundi (Republic of)	290	Greenland (Denmark)
456	Cambodia (Kingdom of)	352	Grenada
624	Cameroon (Republic of)	340	Guadeloupe (French Department of)
302	Canada	535	Guam
625	Cape Verde (Republic of)	704	Guatemala (Republic of)
346	Cayman Islands	611	Guinea (Republic of)
623	Central African Republic	632	Guinea-Bissau (Republic of)
622	Chad (Republic of)	738	Guyana
730	Chile	372	Haiti (Republic of)
460	China (People's Republic of)	708	Honduras (Republic of)
461	China (People's Republic of)	454	Hongkong, China
732	Colombia (Republic of)	216	Hungary (Republic of)
654	Comoros (Union of the)	274	Iceland
629	Congo (Republic of the)	404	India (Republic of)
548	Cook Islands	405	India (Republic of)
712	Costa Rica	510	Indonesia (Republic of)
612	Côte d'Ivoire (Republic of)	432	Iran (Islamic Republic of)
219	Croatia (Republic of)	418	Iraq (Republic of)
368	Cuba	272	Ireland
280	Cyprus (Republic of)	425	Israel (State of)
230	Czech Republic	222	Italy
467	Democratic People's Republic of Korea	338	Jamaica
630	Democratic Republic of the Congo	440	Japan
514	Democratic Republic of Timor-Leste	441	Japan
238	Denmark	416	Jordan (Hashemite Kingdom of)
638	Djibouti (Republic of)	401	Kazakstan (Republic of)
366	Dominica (Commonwealth of)	639	Kenya (Republic of)
370	Dominican Republic	545	Kiribati (Republic of)
740	Ecuador	450	Korea (Republic of)
602	Egypt (Arab Republic of)	419	Kuwait (State of)
706	El Salvador (Republic of)	437	Kyrgyz Republic
627	Equatorial Guinea (Republic of)	457	Lao People's Democratic Republic
657	Eritrea	247	Latvia (Republic of)
248	Estonia (Republic of)	415	Lebanon
636	Ethiopia (Federal Democratic Republic of)	651	Lesotho (Kingdom of)
288	Faroe Islands	618	Liberia (Republic of)
542	Fiji (Republic of)	606	Libya (Socialist People's Libyan Arab
244	Finland	205	Jamahiriya)
208	France	295	Liechtenstein (Principality of)
742	French Guiana (French Department of)	246	Lithuania (Republic of)
547	French Polynesia (Territoire français d'outre-	270	Luxembourg
	mer)	455	Macao, China
628	Gabonese Republic	646	Madagascar (Republic of)
607	Gambia (Republic of the)	650	Malawi
282	Georgia	502	Malaysia
262	Germany (Federal Republic of)	472	Maldives (Republic of)
620	Ghana	610	Mali (Republic of)

Code	Country or Geographical area	Code	Country or Geographical area
278	Malta	308	Saint Pierre and Miquelon (Collectivité
551	Marshall Islands (Republic of the)		territoriale de la République française)
340	Martinique (French Department of)	360	Saint Vincent and the Grenadines
609	Mauritania (Islamic Republic of)	549	Samoa (Independent State of)
617	Mauritius (Republic of)	292	San Marino (Republic of)
334	Mexico	626	Sao Tome and Principe (Democratic Republic of)
550	Micronesia (Federated States of)	420	Saudi Arabia (Kingdom of)
259	Moldova (Republic of)	608	Senegal (Republic of)
212	Monaco (Principality of)	220	Serbia and Montenegro
428	Mongolia	633	Seychelles (Republic of)
354	Montserrat	619	Sierra Leone
604	Morocco (Kingdom of)	525	Singapore (Republic of)
643	Mozambique (Republic of)	231	Slovak Republic
414	Myanmar (Union of)	293	Slovenia (Republic of)
649	Namibia (Republic of)	540	Solomon Islands
536	Nauru (Republic of)	637	Somali Democratic Republic
429	Nepal	655	South Africa (Republic of)
204	Netherlands (Kingdom of the)	214	· •
362	Netherlands Antilles		Spain
546	New Caledonia (Territoire français d'outre-	413	Sri Lanka (Democratic Socialist Republic of)
	mer)	634	Sudan (Republic of the)
530	New Zealand	746	Suriname (Republic of)
710	Nicaragua	653	Swaziland (Kingdom of)
614	Niger (Republic of the)	240	Sweden
621	Nigeria (Federal Republic of)	228	Switzerland (Confederation of)
534	Northern Mariana Islands (Commonwealth	417	Syrian Arab Republic
	of the)	466	Taiwan, China
242	Norway	436	Tajikistan (Republic of)
901	Not allocated	640	Tanzania (United Republic of)
422	Oman (Sultanate of)	520	Thailand
410	Pakistan (Islamic Republic of)	294	The Former Yugoslav Republic of
552	Palau (Republic of)		Macedonia
714	Panama (Republic of)	615	Togolese Republic
537	Papua New Guinea	539	Tonga (Kingdom of)
744	Paraguay (Republic of)	374	Trinidad and Tobago
716	Peru	605	Tunisia
515	Philippines (Republic of the)	286	Turkey
260	Poland (Republic of)	438	Turkmenistan
268	Portugal	376	Turks and Caicos Islands
330	Puerto Rico	641	Uganda (Republic of)
427	Qatar (State of)	255	Ukraine
8XX	Reserved (Note 1)	424	United Arab Emirates
0XX	Reserved (Note 1)	430	United Arab Emirates (Note 2)
1XX	Reserved (Note 1)	431	United Arab Emirates (Note 2)
647	Reunion (French Department of)	235	United Kingdom of Great Britain and Northern Ireland
226	Romania	234	United Kingdom of Great Britain and
250	Russian Federation	234	Northern Ireland
635	Rwandese Republic	310	United States of America
356	Saint Kitts and Nevis	316	United States of America
358	Saint Lucia	I	

Code	Country or Geographical area	Code	Country or Geographical area
311	United States of America	541	Vanuatu (Republic of)
313	United States of America	225	Vatican City State
314	United States of America	734	Venezuela (Bolivarian Republic of)
315	United States of America	452	Viet Nam (Socialist Republic of)
312	United States of America	543	Wallis and Futuna (Territoire français
332	United States Virgin Islands		d'outre-mer)
748	Uruguay (Eastern Republic of)	421	Yemen (Republic of)
434	Uzbekistan (Republic of)	645	Zambia (Republic of)
	· · · · · · · · · · · · · · · · · · ·	648	Zimbabwe (Republic of)

NOTE 1 – Mobile Country Codes ((T)MCCs) that begin with the digits 0, 1 and 8 are reserved for future use. NOTE 2 – United Arab Emirates, Dubai: 431; Abu Dhabi: 430.

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Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
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Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
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