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Recommendation Q.708

xe ""§NUMBERING OF INTERNATIONAL SIGNALLING POINT CODES

1 Introduction

This Recommendation describes the numbering scheme of international signalling point codes for Signalling System No. 7 networks. The technical aspects of the signalling networks are specified in Recommendation Q.705.

The worldwide signalling network is structured into two functionally independent levels, namely the international and national levels. This structure makes possible a clear division of responsibility for signalling network management and allows numbering plans of signalling points of the international network and the different national networks to be independent of one another.

It is also noted that the point code is intended to be processed within the Message Transfer Part of each signalling point or signalling transfer point, so that there is no direct relationship to the telephone, data, or ISDN numbering.

2 Numbering of International Signalling Points

2.1 A 14-bit binary code is used for the identification of signalling points.

2.2 An international signalling point code (ISPC) should be assigned to each signalling point which belongs to the international signalling network. For some network environment, one physical network node may serve as more than one signalling point, and may therefore be assigned more than one signalling point code.

2.3 All international signalling point codes (ISPC) should consist of three identification sub-fields as indicated in Figure 1/Q.708. The sub-field of 3 bits (NML) should identify a world geographical zone. The sub-field of 8 bits (K-D) should identify a geographical area or network in a specific zone. The sub-field of 3 bits (CBA) should identify a signalling point in a specific geographical area or network. The combination of the first and second sub-fields could be regarded as a signalling area/network code (SANC).

2.4 Each country (or geographical area) should be assigned at least one signalling area/network code (SANC).

2.5 Two of the zone identifications, namely 0 and 1 codes, are reserved for future allocation.

2.6 The system of international signalling point codes (ISPC) will provide for $6 \times 256 \times 8$ (12288) ISPCs.

2.7 If a country (or geographical area) should require more than 8 international signalling

points, one or more additional signalling area/network code(s) (SANC) would be assigned to it.

2.8 Lists of signalling area/network codes (SANC) to be used in the development of international signalling point codes (ISPC) is given in Annex A to this Recommendation. It shows SANCs assigned to each geographical area that already has other code assignments in existing public telecommunication networks. All codes not shown on the lists are spare codes.

2.9 The assignment of signalling area/network codes (SANC) is to be administered by the CCITT. The assignment of signalling point identifications in the sub-field (CBA) will be made by each country (or geographical area) and the CCITT Secretariat notified.

2.10 The Member countries of the International Telecommunications Union not mentioned in Annex A who wish to take part in the international signalling network or those Members that require an additional signalling area/network code (SANC) should ask the Director of the CCITT for the assignment of an available SANC. In their request, they may indicate the available SANC preferred.

2.11 The Director of the CCITT takes care that:

- generally the assignments are made on a one by one basis and contiguously for a given geographical area, or a given signalling network. (Geographical designations, or network names, may be entered in the list.)
- the needs of each Member country of the International Telecommunication Union for a new SANC shall be met under all circumstances. Should there not be any additional contiguous codes available, a new sequence of contiguous codes shall be opened up for the country concerned. Such a new code sequence will be established firstly at the bottom of the block of spare codes at the end of the lists in Annex A, and secondly at the bottom of existing sequences when it is likely that the adjacent code groups will not require the spares.
- code assignments appearing in Annex A, but obviously not required anymore because the networks concerned are reached with other SANCs will be deleted from the Annex.

2.12 Assignments by the Director of the CCITT of SANC as well as assignments by countries of the signalling point identifications will be published in the Operational Bulletin of the ITU. The representation of ISPC should be shown in decimal form in each sub-field, i.e. Z-UUU-V where Z, UUU, and V are corresponding to bits NML, K-D and CBA, respectively.
Figure 1/Q.708 - CCITT 85260

ANNEX A
(to Recommendation Q.708)

Lists of Signalling Area/Network Codes (SANC)

Note – These lists are shown by the decimal representation, i.e. Z-UUU where Z is zone identification and UUU is area/network identification.

Zone 2

Code

Geographical Area or Signalling Network

2-004

Greece

2-008

Netherlands (Kingdom of the)

2-012

Belgium

2-016 through 2-023

France

2-024

Monaco

2-028

Spain

2-032

Hungarian People's Republic

2-036

German Democratic Republic

2-040

Yugoslavia (Socialist Federal Republic of)

2-044 through 2-046

Italy

2-052

Romania (Socialist Republic of)

2-056

Switzerland (Confederation of)

2-060

Czechoslovak Socialist Republic

2-064

Austria

2-068

United Kingdom of Great Britain and Northern Ireland (British Telecom)

2-072

United Kingdom of Great Britain and Northern Ireland (Mercury Telecommunications Limited)

2-076

Denmark

2-080 and 2-081

Sweden

2-084

Norway

2-088

Finland

2-100

Union of Soviet Socialist Republics

2-120

Poland (People's Republic of)

2-124 through 2-131

Germany (Federal Republic of)

2-132

Gibraltar

2-136

Portugal

2-140

Luxembourg

2-144

Ireland

2-148

Iceland

2-152

Albania (Socialist People's Republic of)

2-156

Malta (Republic of)

2-160

Cyprus (Republic of)

2-168

Bulgaria (People's Republic of)

2-172

Turkey

Zone 2, Spare Codes: 224

Zone 3

Code

Geographical Area or Signalling Network

3-004

Canada

3-016

St. Pierre and Miquelon (French Department of)

3-020 through 3-059

United States of America

3-060

Puerto Rico

3-064

Virgin Islands (USA)

3-068, 3-069 and

3-070

Mexico

3-076

Jamaica

3-080

French Antilles

3-084

Barbados

3-088

Antigua and Barbuda

3-092

Cayman Islands

3-096

British Virgin Islands

3-100

Bermuda

3-104

Grenada

3-108

Montserrat

3-112

St. Kitts and Nevis

3-116

St. Lucia

3-120

St. Vincent and the Grenadines

3-124

Netherlands Antilles

3-128

Bahamas (Commonwealth of the)

3-132

Dominica (Commonwealth of)

3-136

Cuba

3-140

Dominican Republic

3-144

Haiti (Republic of)

3-148

Trinidad and Tobago

3-152

Turks and Caicos Islands

3-156

Guadeloupe

3-160

Martinique

Zone 3, Spare Codes: 228

Zone 4

Code

Geographical Area or Signalling Network

4-008

India (Republic of)

4-020

Pakistan (Islamic Republic of)

4-024

Afghanistan (Democratic Republic of)

4-026

Sri Lanka (Democratic Socialist Republic of)

4-028

Burma (Socialist Republic of the Union of)

4-030

Lebanon

4-032

Jordan (Hashemite Kingdom of)

4-034

Syrian Arab Republic

4-036

Iraq (Republic of)

4-038

Kuwait (State of)

4-040

Saudi Arabia (Kingdom of)

4-042

Yemen (Arab Republic)

4-044

Oman (Sultanate of)

4-046

Yemen (People's Democratic Republic of)

4-048

United Arab Emirates

4-050

Israel (State of)

4-052

Bahrain (State of)

4-054

Qatar (State of)

4-056

Mongolian People's Republic

4-058

Nepal

4-060

United Arab Emirates (Abu Dhabi)

4-062

United Arab Emirates (Dubai)

4-064

Iran (Islamic Republic of)

4-080

Japan

4-100

Korea (Republic of)

4-104

Viet Nam (Socialist Republic of)

4-108

Hong Kong

4-110

Macao

4-112

Democratic Kampuchea

4-114

Lao People's Democratic Republic

4-120

China (People's Republic of)

4-135

Korea (Democratic People's Republic of)

4-140

Bangladesh (People's Republic of)

4-144

Maldives (Republic of)

Zone 4, Spare Codes: 223

Zone 5

Code

Geographical Area or Signalling Network

5-004

Malaysia

5-010

Australia

5-020

Indonesia (Republic of)

5-030

Philippines (Republic of)

5-040

Thailand

5-050

Singapore (Republic of)

5-056

Brunei Darussalam

5-060

New Zealand

5-070

Guam

5-072

Nauru (Republic of)

5-074

Papua New Guinea

5-078

Tonga (Kingdom of)

5-080

Solomon Islands

5-082

Vanatu (Republic of)

5-084

Fiji (Republic of)

5-086

Wallis and Futuna Islands

5-088

American Samoa

5-090

Niue Island

5-092

New Caledonia and Dependencies

5-094

French Polynesia

5-096

Cook Islands

5-098

Western Samoa (Independent State of)

5-100

Kiribati (Republic of)

5-102

Tuvalu

Zone 5, Spare Codes: 232

Zone 6

Code

Geographical Area or Signalling Network

6-004

Egypt (Arab Republic of)

6-006

Algeria (Algerian Democratic and Popular Republic)

6-008

Morocco (Kingdom of)

6-010

Tunisia

6-012

Libya (Socialist People's Libyan Arab Jamahiriya)

6-014

Gambia (Republic of the)

6-016

Senegal (Republic of the)

6-018

Mauritania (Islamic Republic of)

6-020

Mali (Republic of)

6-022

Guinea (Republic of)

6-024

Côte d'Ivoire (Republic of the)

6-026

Burkina Faso

6-028

Niger (Republic of the)

6-030

Togolese Republic

6-032

Benin (People's Republic of)

6-034

Mauritius

6-036

Liberia (Republic of)

6-038

Sierra Leone

6-040

Ghana

6-042

Nigeria (Federal Republic of)

6-044

Chad (Republic of)

6-046

Central African Republic

6-048

Cameroon (Republic of)

6-050

Cape Verde (Republic of)

6-052

Sao Tome and Principe (Democratic Republic of)

6-054

Equatorial Guinea (Republic of)

6-056

Gabon Republic

6-058

Congo (People's Republic of the)

6-060

Zaire (Republic of)

6-062

Angola (People's Republic of)

6-064

Guinea-Bissau (Republic of)

6-066

Seychelles (Republic of the)

6-068

Sudan (Republic of the)

6-070

Rwanda (Republic of)

6-072

Ethiopia (People's Democratic Republic of)

6-074

Somali Democratic Republic

Zone 6 (cont.)

Code

Geographical Area or Signalling Network

6-076

Republic of Djibouti

6-078

Kenya (Republic of)

6-080

Tanzania (United Republic of)

6-082

Uganda (Republic of)

6-084

Burundi (Republic of)

6-086

Mozambique (People's Republic of)

6-090

Zambia (Republic of)

6-092

Madagascar (Democratic Republic of)

6-094

Reunion (French Department of)

6-096

Zimbabwe (Republic of)

6-098

Namibia

6-100

Malawi

6-102

Lesotho (Kingdom of)

6-104

Botswana (Republic of)

6-106

Swaziland (Kingdom of)

6-108

Comoros (Islamic Federal Republic of the)

6-110

South Africa (Republic of)

Zone 6, Spare Codes: 203

Zone 7

Code

Geographical Area or Signalling Network

7-004

Belize

7-008

Guatemala (Republic of)

7-012

El Salvador (Republic of)

7-016

Honduras (Republic of)

7-020

Nicaragua

7-024

Costa Rica

7-028

Panama (Republic of)

7-032

Peru

7-044

Argentine Republic

7-048

Brazil (Federative Republic of)

Zone 7 (cont.)

Code

Geographical Area or Signalling Network

7-060

Chile

7-064

Colombia (Republic of)

7-068

Venezuela (Republic of)

7-072

Bolivia (Republic of)

7-076

Guyana

7-080

Ecuador

7-084

Guiana (French Department of)

7-088

Paraguay (Republic of)

7-092

Suriname (Republic of)

7-096

Uruguay (Eastern Republic of)

Zone 7, Spare Codes: 236