

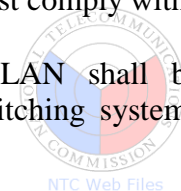
SUBJECT: FUNDAMENTAL NUMBERING PLAN

Pursuant to Executive Order Nos. 546 (Series of 1979), 59 (Series of 1993) and 109 (Series of 1993) and Republic Act No. 146, as amended (Public Service Act), the National Telecommunications Commission (Commission for brevity) hereby promulgates the following fundamental numbering plan.

1. GENERAL

1.1 Scope

- 1.1.1 The National Telecommunications Fundamental Technical Plan for Numbering, hereinafter called “NUMBERING PLAN”, defines the numbering characteristics that each portion of the national telecommunications network shall be maintained and operated with to ensure satisfactory communication between any two locations within the Republic of the Philippines or between the Philippines and any country where Telecommunications Standards Bureau (TSB) recommendations are being adopted.
- 1.1.2 The values and conditions specified in the ROUTING PLAN are minimum requirements for optimum performance. Should there be any change to the minimum requirement herein set forth that will result to a better network performance, the National Telecommunications Commission, shall issue an appropriate memorandum circular/order embodying the change which shall become effective thereafter.
- 1.1.3 The NUMBERING PLAN establishes the minimum functional dialing characteristics and capabilities that the national switching network and switching equipment and accessories comprising the said network must comply with.
- 1.1.4 Where applicable, the NUMBERING PLAN shall be implemented in all analog and digital switching systems



operated by all telecommunications companies in the Republic of the Philippines.

1.1.5 The NUMBERING PLAN herein specified shall provide a guideline in preparing detailed technical of switching equipment and its accessories as well as in the planning of networks in the national system.

1.1.6 This NUMBERING PLAN does not include yet any provisions covering a fully digital network scenario nor to any specific provisions covering telex, data, record, value-added or enhanced services and public land mobile network (PLMN).

1.2 Principles

1.2.1 The NUMBERING PLAN takes into account the many different types of switching equipment currently being used in the Philippines as well as the evolution of switching and transmission technology from analog to digital and finally to ISDN. It therefore takes into consideration the present condition and facility layout in the Philippines and the gradual evolution of the network to a fully digital network.

1.2.2 Relative to para. 1.2.1 subscriber lines are expected to remain 2-wire analog for a considerable period of time except for several applications where digital subscriber lines are employed.

1.2.3 The mixed analog/digital period is expected to last a considerable number of years. Therefore, the NUMBERING PLAN shall ensure that subscriber dialing performance from end-to-end during this period is maintained at a satisfactory level.

1.2.4 Values and characteristics found in the NUMBERING PLAN are based on relevant CCITT Recommendations, especially those contained in the CCITT Blue Book (IXth Plenary Assembly, Melbourne, Australia, 1988) and other applicable and current industry standards in the Philippines.

1.2.5 This NUMBERING PLAN specifies minimum requirements and can always be exceeded when appropriate.



2. NUMBERING PLAN

2.1 National (Significant) Number

The number of digits of the national (significant) number, in accordance with CCITT Blue Book, Fascicle II.2 – Rec. E.163, p. 129, para. 2.2, shall be equal to (12-n), where n is the number of digits of the country code which is equal to 10 when the present country code of the Philippines (63, n = 2) is used.

2.1.1 Area Code

The final numbering plan shall be based on Table 2. The maximum number of digits for the area code shall be 3.

2.1.2 Subscriber Number

The subscriber number shall consist of an exchange code and a local number.

2.2 Prefixes

2.2.1 International Prefix

For gaining access to the international automatic network, the national system shall adopt an international prefix composed of the two digits (re.: CCITT Blue Book, Fascicle II.2-Rec.E. 163, pp.129-130, para. 4.1)

2.2.2 National (Trunk) Prefix

The national trunk prefix is a digit or combination of digits, to be dialed by a calling subscriber, making a call to a subscriber in his own country but outside his own numbering area. The national system shall adopt a national (trunk) prefix of a single digit 0.

(ref.: CCITT Blue Book, Fascicle II.1-Rec.E.163, p. 131, para. 4.5)

2.2.3 Access to Other International and National Operators

The international and national prefixes mentioned in paragraphs 2.2.1 and 2.2.2, respectively, shall be dialed by the subscriber when making international and national long distance calls thru his first-choice operator. For long

distance calls thru his other-choice operators special codes, consisting of at least three (3) digits, shall be dialed to gain access to the other operators.

2.3 Area Codes

2.3.1 Interim National Numbering Plan

The current allocation of area codes to the Philippine national network is shown in Table I. This allocation shall be replaced by the final numbering plan by January 1996.

2.3.2 Final National Numbering Plan

The final national numbering plan is shown in Table 2.

2.4 Exchange Codes

Exchange codes shall be in accordance with the National Numbering Plan and shall not be used without prior authority from the Commission. Digits 0 and 1 shall not be used as the first digit for the exchange codes.

2.5 Special Service Codes

Service codes, are classified as follows:

2.5.1 Emergency Service Codes

Emergency services are assigned to code series 16X, as shown in Table 3.

2.5.2 Maintenance Service Codes

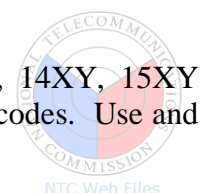
Maintenance services are assigned to code series 17X, as shown in Table 3.

2.5.3 Other Service Codes

Other service codes are assigned to code series 10X and 11X, as shown in Table 3.

2.5.4 Network Access Codes

Code series 10XY, 11XY, 12XY, 13XY, 14XY, 15XY and 09XY are allocated to network access codes. Use and



assignment of any of these code series shall bear the approval of the NTC.

CMTS network operators shall be allocated network access codes 09XY.

Trunk repeater system network and other radio mobile network operators shall be allocated network access codes 13XY.

Radio paging network operators (RPN) and IGF operators shall be assigned 3-digit network access codes.

RPN operators authorized on or before the effectivity of this memorandum circular (MC) shall be assigned two (2) 3-digit network access codes. Radio paging network operators authorized after the effectivity of this MC shall be assigned one (1) 3-digit network access codes.

2.5.5 Spare Service Codes

Code series 18XY, except 1800 and 19XY, except 1900 are unallocated. Use and assignment of any of these code series shall bear the approval of the NTC.

Routing and charging arrangements for each code shall be determined by appropriate entities. Emergency codes shall not be subject to local service charges.

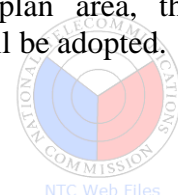
2.6 Dialing Procedure

2.6.1 For National Long Distance Calls

The exchanges comprising the national network shall be able to handle the following dialing procedure for national calls:

Access Code + Area Code + Subscriber Number

However, in the initial phase since some existing subscriber numbers are not yet in accordance with the subscriber number allocation for each numbering plan area, the interim dialing format shown in Table 4 shall be adopted.



2.6.2 For International Calls

Switching exchanges shall be able to handle the dialing procedure for international calls as enumerated in Table 5.

2.7 Compatibility of Exchanges to the National Numbering Plan

2.7.1 The national switching system shall be compatible with the final and interim numbering plans designed to accommodate transition of the network from a predominantly electromechanical exchange oriented network to one incorporating increasing levels of stored program control, digital exchange centers.

2.7.2 Digit Storing Capacity

SPC switching equipment shall be capable of storing a minimum of 15 digits and analyze the relevant digits according to the specified numbering plan. It must be able to recognize and, when necessary, transmit the codes corresponding to their service area. Such code may consist of two, three or four digits.

(ref: CCITT, Blue Book, Fascicle II.s-Rec.E/163, p.129, para.3)

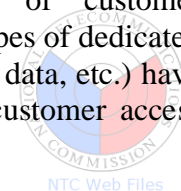
2.7.3 SPC switching systems shall have the capability of absorbing digit(s) to operate in a non-uniform numbering plan environment. Further, the insertion and absorption of special digits, used as signals in certain signaling systems, or for access to future services, will be required.

(red.: National Telecommunications Standards for the Rep. Of the Phil., Vol. III, National Digital Switching Standards by Teleconsult/A.D. Little, pp. 5-12)

2.8 Numbering Plan for the ISDN Era

2.8.1 Introduction

The rapid advances in telecommunications technology coupled with increased diversification of customer demands served by a number of different types of dedicated public switched networks (telephone, telex, data, etc.) have created a need to provide for a uniform customer access



and network structure. Such a structure is called the Integrated Services Digital Network (ISDN).

(ref: CCITT, Blue Book, Fascicle II.2-Rec. 164, p.135, para.1)

2.8.2 General

The ISDN numbering and addressing principles are described in CCITT Blue Book, Fascicle III.8-Rec. I.330, p. 57-65. The ISDN numbering plan will be based on and evolve from the existing numbering plans applicable to national and international public telephone networks.

(ref: CCITT, Blue Book, Fascicle II.2-Rec.E.164, p. 136, para. 3.1)

2.8.3 Structure of the International ISDN Number

The structure of the international ISDN number shall be in accordance with CCITT Blue Book, Fascicle II.2-E.164, pp.136-137, para. 3.2

2.8.4 Number Length

The maximum number length shall be 15 digits. The length does not include prefix, language digit, address delimiters (e.g. end of pulsing signals, etc.), since those items are not considered as part of the international ISDN number.

(ref: CCITT Blue Book, Fascicle II.2-Rec. 164, p. 137, para. 3.3)

2.8.5 Number Analysis

To determine:

- the country of destination
- the most appropriate network routing
- the proper charging

digital exchange must analyze a number of digits of the international number. The national destination code (NDC) increases, the potential requirement for number analysis

because it provides for a combination of either an area code (AC) and/or a network identification function.

On international calls the number analysis performed by the digital exchange need not be more than the country code and:

- three digits of the NSN in the case of a country with a three digit country code,
- four digits of the NSN in the case of a country with a two digit country code,
- five digits of the NSN in the case of a country with one digit country code.

(ref: CCITT Blue Book, Fascicle II.2-Rec. 164, p. 137, para. 3.4)

2.8.6 Dialing Procedure

The subscriber dialing procedure for local, national and international calls shall be in accordance with CCITT Blue Book, Fascicle II.2-Rec.E.164, p. 164, p. 138, para.8

2.9 **Network Destination Code (NDC)**

The network destination code shall consist of a maximum three (3) digits. Assignment and use of the NDC shall be approved by the NTC.

NUMBERING PLAN
DEFINITION OF TERMS/PHRASES

- Access Code** - The preliminary digits that a user must dial to be connected to a particular outgoing trunk group or lines.
- Addressing Principles** - A set of rules governing the structure and design considerations for addressing, for reference points at subscriber premises, for other functions and to allow communications with terminals.
- Alert Center** - An emergency service that provides assistance to any subscriber who is in danger or who needs immediate help.
- Area Code** - A digit or group of digits, characterizing a numbering area within a country.
- DDD/ISD Inquiry** - An operator assistance regarding on area/city codes within and out of the country.
- Directory Assistance** - A special service offered to any subscriber who wish to be informed of the name, address and telephone number of another subscriber.
- Electromechanical Exchange** - A telephone exchange in which speech paths are switched by metallic contacts actuated by electromagnetic devices.
- Exchange Code** - A digit or group of digits which identifies the central office or exchange to which a subscriber belongs.
- International Prefix** - The combination of digits to be dialed to obtain access to the automatic outgoing international equipment.
- ISDN** - Integrated Services Digital Network. An integrated digital network in which the same time division switches and digital transmission paths are used to establish connections for different services, for example: telephony, data, telex, facsimile.

- Jack-ended** - A circuit which is terminated on a jack, a switch-board or a manual operating position.

- Language Digit** - On international telephone calls, an additional digit inserted, usually automatically, as an indication of the language desired to be spoken by an operator at the distant end.

- National Destination Code** - A digit or combination of digits characterizing a numbering area within a country which has to be inserted before the called subscriber's number when the calling and called parties are located in different number areas.

- National (Significant) Number** - The number to be dialed following the trunk prefix to obtain a subscriber in the same country but outside the same numbering area. It may consist of the trunk code followed by the subscriber number, the numbering area code followed by an exchange code and directory number, or the numbering area code followed simply by a directory number.

- Network Destination Code** - A digit or combination of digits used to select a destination network serving the destination subscriber.

- Numbering Plan Area (NPA)**- Any geographical division of a country within which no two (2) telephones will have the same telephone number. Each NPA should be assigned with the distinct area code.

- Operator Assistance** - A personal assistance to subscribers not equipped with DDD, who would like to avail of a long distance (National/ International) connection.

- Pulsing Signals** - Transmission of address information in digital form by sending pulses of current in the circuit. These can be either pulses of dc current, as with make-and-break signals from a dial, or pulses of voice frequency tone, as for example with a 2600 Hz single frequency signaling system.

- Service Code** - A numerical code designating a supplementary telephone service.



- Signaling System** - The procedures involved in the interpretation and use of a repertoire of signals, together with the hardware and/or software needed for their generation, transmission and reception.
- SPC** - Stored Program Control. Control of an automatic switching arrangement in which the call processing is determined by a program stored in an alterable memory.
- Subscriber Number** - The number which must be dialed to reach a telephone subscriber in the same local network.
- Trunk Prefix** - A digit or combination of digits which must be dialed in order to reach a subscriber with a different area code. It provides access to the automatic outgoing trunk equipment.
- Weather Report** - Connects the calling party to the authorities concerned on weather developments.

Table 1 - INTERIM NATIONAL NUMBERING PLAN
 (National [Trunk] Prefix "O" Omitted)

NPA	PROVINCE
---	-----
2	NCR, Rizal Province
32	Cebu
33	Iloilo
34	Negros Occidental
35	Negros Oriental
36	Capiz, Aklan
37	Antique
38	Bohol
42	Quezon, Marinduque
43	Batangas
44	Nueva Ecija, Aurora
45	Pampanga, Tarlac
46	Mindoro Occidental
47	Zambales, Bataan
48	Palawan
49	Calrk, AB
52	Albay, Catanduanes, Burias Island
53	Leyte, Southern leyte
54	Camarines Norte
55	Northern Samar
56	Sorsogon, Masbate
57	Western Samar
58	Eastern Samar
62	Basilan, W. Zamboanga del Sur, W. Zambo. Del Norte
63	Lanao del Norte, Lanao del Sur
64	Maguindanao, Western N. Cotabato, Western Sultan Kudarat
65	E. Zamboanga del Norte, Misamis Occidental
66	E. Zamboanga del Sur
67	E. North Cotabato, Eastern Sultan Kudarat
68	Sulu, Tawi-tawi
72	La Union
73	Nueva Vizcaya
74	Benguet, Mt. Province
75	Pangasinan



6	Isabela, Quirino
7	Ilocos Norte, Ilocos Sur, Abra
78	Cagayan, Batanes
79	Kalinga-Apayao
82	Davao del Sur, Samal Is.
83	South Cotabato
84	Davao del Norte
85	Agusan del Norte, Agusan del Sur
86	Surigao del Norte, Surigao del Sur
87	Davao Oriental
88	Misamis Oriental, Bukidnon, Camiguin
90	Mobile Telephone System
92	Laguna
96	Cavite
97	Bulacan

Table 2 – NATIONAL NUMBERING PLAN (ULTIMATE)
(National [Trunk] “O” Omitted)

NPA ---	REGIONS -----
2	NCR
3	VI, VII
4	III, IV
5	V, VIII
6	IX, XII
7	I, II
8	X, XI

(Ref.: National Telecommunications Standards for the Rep. Of the Phil., Vol. III, National Digital Switching Standards by Teleconsult/A.D. Little, p. 5-3, Exh. 5.2)

**TABLE 3
SPECIAL SERVICE CODES**

COD	ASSIGNMENT	CODE	ASSIGNMENT
E			
100	Reverting Call	142	Spare
101	Spare	143	Spare
102	Spare	144	Spare
103	Spare	145	Spare
104	Spare	146	Spare
105	Autodirect Collect Calls	147	Spare
106	Spare	148	Spare
107	Spare	149	Spare
108	Optr. Assistance-overseas	150	Spare
109	Optr. Assistance-Domestic	151	Spare
110	Spare	152	Spare
111	Spare	153	Spare
112	NDD/ISD Inquiry	154	Spare
113	Spare	155	Spare
114	Spare	156	Spare
115	Weather Report	157	Spare
116	Spare	158	Spare
117	Spare	159	Spare
118	Spare	160	Fire Dept.
119	Spare	161	Spare
120	Spare	162	Spare
121	Spare	163	Spare
122	Spare	164	Spare
123	Spare	165	PACC
124	Spare	166	Police Dept.
125	Spare	167	CAPCOM/Metrodiscom
126	Spare	168	Alert Center (Rescue)
127	Spare	169	Ambulance/Hospital
128	Spare	170	Dial Speed Test
129	Spare	171	Spare
130	Spare	172	Spare
131	Spare	173	Repair/Complaints
132	Spare	174	Repair Dispatch
133	Spare	175	Installer dispatch
134	Spare	176	Inspector Test/Wire Chief
135	Spare	177	Spare
136	Spare	178	Spare
137	Spare	179	Spare
138	Spare	180	Spare
139	Spare	181	Spare
140	Spare	182	Spare
141	Spare	183	Spare
184	Spare	192	Spare
185	Spare	193	Spare
186	Spare	194	Spare



187	Spare	195	Spare
188	Spare	196	Spare
189	Spare	197	Spare
190	Spare	198	Spare
191	Spare	199	Supervision Test
		7575	CAPCOM (Temporary)
		1-700	WATS (Third-party billing)
		1-800	WATS (Called-party billing)
		1-900	WATS (Calling-party billing)

Table 4 – Interim Dialing Format for National Long Distance Calls

	Initial Phase -----	Final Phase -----
1. NDD Subscriber to	0 + AC + Existing SN 0 + AC + IC + Existing SN or 0 + IC + Existing SN	0 + AC + SN
2. LE Subscriber to National Operator	109	109
3. Operator to 3.1 Dialable Subscriber	AC + Existing SN or AC + IC + existing SN or IC + Existing SN	AC + SN
3.2 Toll Center	AC + 0 or AC + IC + 0 or IC + 0 or AC + Operator Code	AC + 0 Or AC + Operator Code
3.3 Local Automatic	AC + 0 O AC + IC + 0 IC + 0 Or AC + Operator Code	
3.4 Local Manual Exchange Operator	AC + IC or IC	
3.5 Toll Station and Public Calling	AC + 19XX or	



Offices (PCOs)

IC + 18XX
or
AC + 19XXX (Note 1)
or
IC + 18XXX (Note 1)

Where: AC Code - Area
SN - Subscriber Number
IC - Interim Code (maybe
one or more digits
LE Exchange of the exchange code) - Local

Note 1 :
If the area coverage is large.

Table 5 – Dialing Procedure for International Calls

ORIGIN	DESTINATION	DIALING PROCEDURE
-----	-----	-----
1. ISD Subscriber	B-party, foreign subs.	00 + CC + AC + SN
2. LE Subscriber	International operator	108
3. National Operator	International operator	0 + Code 11 + 0 + 0
4. National Operator	B-party, foreign subs.	0 + CC + AC + SN
5. National Operator	B-party, foreign oper.	0 + CC + Code 11/12
6. National Operator	International Operator	
- JE circuit &		0 + Code 11
- SPC Toll		0 + 0
		Or
		0 + Code 11
- Non-SPC Toll		N + 0 + Code 11
		Or
		N + 0 + 0
7. International Operator	B-party, foreign subs.	0 + CC + AC + SN
8. International Operator	B-oper., foreign oper.	0 + CC + Code 11/12
9. International operator	B-party, LE subs.	AC + SN
10. International Operator	B-oper. National oper.	AC + 0 or AC + Operator Code
11. Public Calling Offices (same as item nos. 1 and 2 above) (PCOs)		

Where:

AC	-	Area Code
SN	-	Subscriber Number
CC	-	Country Code
JE	-	Jack Ended
N	-	Special Combination of Digits
LE	-	Local Exchange



All public telecommunications carriers shall adhere strictly to the herein prescribed fundamental numbering plan.

This circular shall take effect immediately.

Done this **5th** day of **May** 1994, Quezon City, Philippines.

(SGD.) SIMEON L. KINTANAR
Commissioner

