

TELECOMMUNICATIONS NUMBERING ADVISORY COMMITTEE

Proposal to Standardize the Presentation Format of the 14-bit Signalling Point Codes in the Hong Kong Numbering Plan

Purpose

This paper proposes a new format for the presentation of the 14-bit Signalling Point Codes (SPC) in the Hong Kong numbering plan.

Background

2. Currently, the Telecommunications Authority (TA) assigns a group of 8 SPCs to each network operator in 14-bit binary format. Annex 1 gives the assignment of SPCs in the numbering plan. As the binary string is hard to memorize and difficult for communications between operators, it has come to our attention that some operators have used different format to represent their SPCs. These formats include the Binary Coded Decimal (BCD) which represent the SPCs such as "3-8-3" or "4-6-4", etc. and the hexadecimal format such as 1000.

The TA's Proposal

3. In general, for programming SPCs to trunk circuits and switches, operators need to input the raw 14 binary bit position by position. Since it is straightforward to translate hexadecimal format into raw binary format, there is less chance of making mistakes in switch programming than using the BCD formats.

4. The TA therefore proposes, in addition to the binary format, to adopt the hexadecimal format in the interpretation of 14-bits SPC for communication amongst network operators. e.g. the SPCs "0100 0000 000xxx" in binary format would also be presented as a number range "1000 – 1007" in hexadecimal format in the numbering plan.

Advice Sought

5. Members are invited to give their views and comments on the TA's proposal of adopting the hexadecimal format in the interpretation of SPCs. If this proposal is adopted, the TA will re-align the SPC assignment in the numbering plan as illustrated in Annex 2.

Office of the Telecommunications Authority
22 March 2001

Annex 1

Signalling Point Code (SPC) Assignments

SPC Assignment	Services	Status
0000 xxxx xxxxxx	Basic Telephone Services	PCCWHKTC (Note 1)
0001 xxxx xxxxxx	STP, Special SP and SCP	PCCWHKTC (Note 2)
0001 0010 xxxxxx	Signalling Point	PCCWHKTI
0010 0000 xxxxxx	Mobile Telephone	CWHKTCSL
0010 0001 xxxxxx	Mobile Telephone	SmarTone
0010 0010 xxxxxx	Mobile Telephone	Hutchison
0010 0011 xxxxxx	Mobile Telephone	NW PCS
0010 0100 xxxxxx	Mobile Telephone	Peoples
0010 0101 xxxxxx	Mobile Telephone	Mandarin
0010 0110 xxxxxx	Mobile Telephone	CWHKTCSL
0010 0111 xxxxxx	Mobile Telephone	Hutchison
0010 1000 xxxxxx	Mobile Telephone	SmarTone
0010 1011 xxxxxx	Mobile Telephone	Hutchison
0010 1101 xxxxxx	Mobile Telephone	CWHKTCSL
0011 0000 xxxxxx	Basic Telephone Services	HGC
0011 0001 xxxxxx	Basic Telephone Services	NT&T
0011 0010 xxxxxx	Basic Telephone Services	NWT
0011 0101 xxxxxx	Basic Telephone Services	China Unicom International Limited
0011 0110 xxxxxx	Basic Telephone Services	HKBN
0011 1000 xxxxxx	Basic Telephone Services	HKSBS
0100 0000 000xxx	External Telecommunications Services	Voice & Data Communications (H.K.) Ltd.
0100 0000 001xxx	External Telecommunications Services	Interactive Telecom Ltd.
0100 0000 010xxx	External Telecommunications Services	Mandarin
0100 0000 011xxx	External Telecommunications Services	Global One Communications Ltd.
0100 0000 100xxx	External Telecommunications Services	WorldCom Asia Pacific Ltd.
0100 0000 101xxx	External Telecommunications Services	City Telecom (H.K.) Ltd.
0100 0000 110xxx	External Telecommunications Services	KDD Telecomet HK Ltd.
0100 0000 111xxx	External Telecommunications Services	SmarTone
0100 0001 000xxx	External Telecommunications Services	New Global Telecom (HK) Ltd.
0100 0001 001xxx	External Telecommunications Services	AIC Asia International Services Corp.
0100 0001 010xxx	External Telecommunications Services	Cignal Global Communications HK Ltd.
0100 0001 011xxx	External Telecommunications Services	T.M.I. Telemedia International HK Ltd.
0100 0001 100xxx	External Telecommunications Services	VIP Calling (Hong Kong) Ltd.
0100 0001 101xxx	External Telecommunications Services	World Navigation Ltd.
0100 0001 110xxx	External Telecommunications Services	Singapore Telecom Hong Kong Ltd.
0100 0001 111xxx	External Telecommunications Services	One Tel Limited
0100 0010 000xxx	External Telecommunications Services	OCen Communications HK Ltd.
0100 0010 001xxx	External Telecommunications Services	Telhope Information Development Co. Ltd.
0100 0010 010xxx	External Telecommunications Services	Global Connect Partners Ltd.
0100 0010 011xxx	External Telecommunications Services	Unicom International (HK) Ltd.
0100 0010 100xxx	External Telecommunications Services	Asia Touch International Co. Ltd.
0100 0010 101xxx	External Telecommunications Services	First Direct Telecommunications (HK) Ltd.
0100 0010 110xxx	External Telecommunications Services	H.K.1618 Comm Limited
0100 0010 111xxx	External Telecommunications Services	Far East Gateway Ltd.

Note 1 On 9.1.97, PCCWHKTC's 14 SPCs were re-assigned to PCCWHKTI.

Note 2 On 9.1.97, PCCWHKTC's 5 SPCs were re-assigned to PCCWHKTI.

Signalling Point Code (SPC) Assignments

SPC Assignment	Services	Status
0100 0011 000xxx	External Telecommunications Services	Telstra Corporation Ltd.
0100 0011 001xxx	External Telecommunications Services	Wherever.net HK Ltd.
0100 0011 010xxx	External Telecommunications Services	Startec Global Communications (Hong Kong) Ltd.
0100 0011 011xxx	External Telecommunications Services	I Call Telecom Ltd.
0100 0011 100xxx	External Telecommunications Services	EGN B.V.
0100 0011 101xxx	External Telecommunications Services	Wanbao Telecom (HK) Ltd.
0100 0011 110xxx	External Telecommunications Services	Northvoice Communications Ltd.
0100 0011 111xxx	External Telecommunications Services	Telaportal Limited
0100 0100 000xxx	External Telecommunications Services	CORP200 Limited
0100 0100 001xxx	External Telecommunications Services	PINZZ Networks (HK) Limited
0100 0100 010xxx	External Telecommunications Services	CTC Telecom Consultant Limited
0100 0100 011xxx	External Telecommunications Services	Fortune Telecom (China) Ltd.
0100 0100 100xxx	External Telecommunications Services	Advantage Telecommunications Limited
0100 0100 101xxx	External Telecommunications Services	Prism Systems International Limited
0100 0100 110xxx	External Telecommunications Services	Q-East.Com(HK) Limited
0100 0100 111xxx	External Telecommunications Services	Deutsche Telekom Asia Pte. Limited
0100 0101 101xxx	External Telecommunications Services	Bandwidth Asia Limited
0100 0101 110xxx	External Telecommunications Services	Band-X (Hong Kong) Limited
0100 0101 111xxx	External Telecommunications Services	Concert Global Networks (HK) Limited
0101 xxxx xxxxxx to 1110 xxxx xxxxxx	-	Unallocated
1111 xxxx xxxxxx	Testing	PCCWHKTC

Annex 2

Signalling Point Code (SPC) Assignments

SPC Assignment (Binary/Hexadecimal equivalent)	Services	Status
0000 xxxx xxxxxx/ 0000-03FF	Basic Telephone Services	PCCWHKTC (Note 1)
0001 xxxx xxxxxx/ 0400-07FF	STP, Special SP and SCP	PCCWHKTC (Note 2)
0001 0010 xxxxxx/ 0480-04BF	Signalling Point	PCCWHKTI
0010 0000 xxxxxx/ 0800-083F	Mobile Telephone	CWHKTCSL
0010 0001 xxxxxx/ 0840-087F	Mobile Telephone	SmarTone
:	Mobile Telephone	Hutchison
:	Mobile Telephone	NW PCS
:	Mobile Telephone	Peoples
:	Mobile Telephone	Mandarin
:	Mobile Telephone	CWHKTCSL
:	Mobile Telephone	Hutchison
:	Mobile Telephone	SmarTone
:	Mobile Telephone	Hutchison
:	Mobile Telephone	CWHKTCSL
:	Basic Telephone Services	HGC
:	Basic Telephone Services	NT&T
:	Basic Telephone Services	NWT
:	Basic Telephone Services	China Unicom International Limited
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:	Basic Telephone Services	HKSBS
:	External Telecommunications Services	Voice & Data Communications (H.K.) Ltd.
:	External Telecommunications Services	Interactive Telecom Ltd.
:	External Telecommunications Services	Mandarin
:	External Telecommunications Services	Global One Communications Ltd.
:	External Telecommunications Services	WorldCom Asia Pacific Ltd.
:	External Telecommunications Services	City Telecom (H.K.) Ltd.
:	External Telecommunications Services	KDD Telecomet HK Ltd.
:	External Telecommunications Services	SmarTone
:	External Telecommunications Services	New Global Telecom (HK) Ltd.
:	External Telecommunications Services	AIC Asia International Services Corp.
:	External Telecommunications Services	Signal Global Communications HK Ltd.
:	External Telecommunications Services	T.M.I. Telemedia International HK Ltd.
:	External Telecommunications Services	VIP Calling (Hong Kong) Ltd.
:	External Telecommunications Services	World Navigation Ltd.
:	External Telecommunications Services	Singapore Telecom Hong Kong Ltd.
:	External Telecommunications Services	One Tel Limited
:	External Telecommunications Services	oCen Communications HK Ltd.
:	External Telecommunications Services	Telhope Information Development Co. Ltd.
:	External Telecommunications Services	Global Connect Partners Ltd.
:	External Telecommunications Services	Unicom International (HK) Ltd.
:	External Telecommunications Services	Asia Touch International Co. Ltd.
:	External Telecommunications Services	First Direct Telecommunications (HK) Ltd.
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External Telecommunications Services

Far East Gateway Ltd.

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:	External Telecommunications Services	Bandwidth Asia Limited
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:	External Telecommunications Services	Concert Global Networks (HK) Limited
:	-	Unallocated
:	Testing	PCCWHKTC
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