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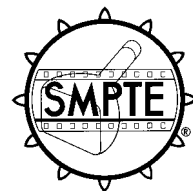
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SMPTE RECOMMENDED PRACTICE

for Television — System Service Messages



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1 Scope

This practice details and defines the control message subset for the system service level. System service messages are used to perform system functions within a general-purpose communications channel of an interface system. This interface system shall transport data and digital control signals between equipment utilized in the production, post-production, and/or transmission of visual and aural information.

2 Notation

This practice describes the coding of keywords and information fields (I/F) in the form shown below.

NN	KEYWORD	Keyword or I/F descriptive text
	or I/F NAME	
[The coding NN represents the assigned key-word or I/F code in hexa-decimal format]	["trib-"	Descriptive text: effect of message at tributary.]
	["bc-"	Descriptive text: effect of message at bus controller.]
	[Other comments ...]	
Format:	<COMMAND>	
	<PARAMETER NAME 0>	[Parameter description;
	...	Parameter value coding, scale or range;
	<PARAMETER NAME n>	Parameter definitions and explanations]

In the practices listed in annex B, keywords are listed numerically in hexadecimal notation. Keyword numbers are reserved as follows:

- Keywords 00_h – 1F_h: System service subset
- Keywords 20_h – 3F_h: Common message subset
- Keywords 40_h – FF_h: Virtual machine type-specific subset

3 Summary of keywords, mnemonics and information field (I/F) names

Hex	Keyword	(mnemonic)	Hex	I/F name	(mnemonic)
00	SYSTEM SERVICE NO OPERATION	(SNOP)			
01	Reserved for BEGIN	(RBGN)			
02	Reserved for END	(REND)			
03	SYSTEM SERVICE RESET	(SRST)			
04	INITIAL SEGMENT	(ISGT)			
05	SUBSEQUENT SEGMENT	(SSGT)			
06	BLOCK	(BLACK)			
07	VIRTUAL MACHINE/GROUP SELECT	(VMGS)			
08	SYSTEM SERVICE ERROR	(SERR)			
09	VIRTUAL GROUP ATTACH	(VGAT)			
0A	VIRTUAL GROUP DISCONNECT	(VGDT)			
0B					
0C					
0D					
0E					
0F					
10	ASSIGN LINKAGE	(ALNK)	10	LINKAGE	(LINK)
11	DEASSIGN LINKAGE	(DLNK)	11	STATUS	(STAT)
12	ASSIGN SUPERVISORY LEVEL GROUP	(ASGP)	12	SUPERVISORY LEVEL GROUP	(SGRP)
13	DEASSIGN SUPERVISORY LEVEL GROUP	(DSGP)	13	VIRTUAL GROUP	(VGRP)
14	ASSIGN VIRTUAL GROUP	(AVGP)	14		
15	DEASSIGN VIRTUAL GROUP	(DVGP)	15		
16	BC READ	(BCRD)	16		
17	BC I/F ITEM RESPONSE	(BIRE)	17		
18	REQUEST TIME TRANSMISSION	(RQTT)	18		
19	BUS CONTROLLER USER DEFINED	(BCUD)	19		
1A			1A		
1B			1B		
1C			1C		
1D			1D		
1E			1E		
1F	EXTENSION	(SEXT)	FF	EXTENSION	(SIEX)

NOTES –

- Information field names 03_h – 0F_h are reserved.
- The following convention is used in all messages (system service, common, and type-specific):
 - most-significant byte (MSB) is transmitted first;
 - least-significant bit (lsb) is transmitted last.

4 Keywords

- 00 SYSTEM SERVICE NO OPERATION trib- and bc- System service no operation.
Relayed by bc.

Format: <SYSTEM SERVICE NO OPERATION>

- 01 Reserved for BEGIN These codes are reserved for BEGIN and END
02 Reserved for END delimiters. They are used in the form:
<BEGIN>
<command or I/F list>
<END>
Relayed by bc.

- 03 SYSTEM SERVICE RESET trib- System service reset. Resets all system service
level functions to the power-up default state:
Virtual machine select – 0
Virtual groups disconnected
Segmentation off.
bc- Select virtual circuit 0 for the addressed tributary.
Sent by bc.

Format: <SYSTEM SERVICE RESET>

- 04 INITIAL SEGMENT trib- Directs the system service level to commence
segment assembly.
bc- Do not parse message further.
Relayed by bc.

Format: <INITIAL SEGMENT>
<SEGMENT COUNT>

8-bit binary unsigned number; count zero
is the final segment.

<SEGMENT DATA ...>

NOTE – The final byte of a data segment shall be the final byte of a supervisory level message block.

- 05 SUBSEQUENT SEGMENT trib- Directs the system service level to continue
segment assembly.
bc- Do not parse message further.
Relayed by bc.

Format: <SUBSEQUENT SEGMENT>
<SEGMENT COUNT>

8-bit binary unsigned number; count zero
is the final segment.

<SEGMENT DATA> ...

NOTES –

- 1 The final byte of a data segment shall be the final byte of a supervisory level message block.
- 2 A tributary with multiple virtual machines attached must provide separate segmentation facilities for each virtual machine.