

PROPOSED SMPTE RECOMMENDED PRACTICE

Monitoring and Diagnostics Processors

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1 Scope

This practice defines the type-specific messages which enable the transport of status monitoring and diagnostics protocol (SMDP) data as defined in SMPTE 273M bidirectionally over EBus and ESian. It defines the diagnostics processor as a distinct virtual machine type. It is intended for use when it is desired to pipe (transport) SMDP information over EBus or ESian as an alternative to the use of the dedicated SMDP transport mechanism.

2 General

2.1 Virtual machine type

Monitoring and diagnostics processors operating under SMPTE status monitoring and diagnostics protocol (SMDP [SMPTE 273M]) shall be identified as virtual machines of a type which is uniquely coded as "07" expressed as an 8-bit word in hexadecimal form.

2.2 Notation

This practice describes the coding of keywords in the form shown below.

<NNh>
KEYWORD

[The coding NN represents the assigned keyword in hexadecimal format.]

Format: <COMMAND>
<PARAMETER NAME 0> [Parameter description; parameter value coding, scale, or range; parameter definitions and explanations.]
<PARAMETER NAME n>

In the SMPTE Recommended Practices listed in annex A, keywords are listed numerically in hexadecimal notation. Keywords are reserved as follows:

- Keywords 00h - 1Fh: System service subset
- Keywords 20h - 3Fh: Common message subset
- Keywords 40h - FFh: Virtual machine type-specific subset

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3 Keyword

<41h> PIPE (PIPE)

This command enables the transport of monitoring and diagnostics data, contained within the SMDP DATA information field, between SMDP virtual machines.

Format: <PIPE>
<SMDP DATA>

4 Information field

This information field contains the SMDP data to be transferred over the EBus or ESian network.

<41h> SMDP DATA (SMDP)

Format: <SMDP DATA>
<BYTE COUNT>
<RAW DATA>

8-bit binary unsigned number. Specifies the length of the raw data message to follow.
The monitoring and diagnostics protocol raw data message.

Annex A (informative) Bibliography

ANSI/SMPTE 207M-1992, Television — Digital Control Interface — Electrical and Mechanical Characteristics	SMPTE RP 138-1992, Control Message Architecture
SMPTE 273M, Television — Status Monitoring and Diagnostics Protocol	SMPTE RP 139-1992, Tributary Interconnection
SMPTE 275M, Television and Audio Equipment — ESian-1 Remote Control System	SMPTE RP 163-1992, Television — System Service Messages
SMPTE RP 113-1992, Supervisory Protocol for Digital Control Interface	SMPTE EG 29-1993, Remote Control of Television Equipment
	SMPTE EG 30, Implementation of ESian Standards