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Services and Protocols for Advanced Networks (SPAN); Codepoints for V5 and derived protocols

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Services and Protocols for Advanced Networks (SPAN); Codepoints for V5 and derived protocols

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

Introduction

The narrowband V5.x interface signalling protocol standards were the original documents which defined a set of message and information element codepoints. Subsequently other standards have re-used and extended the set. The present document contains a consolidated list of the superset of message and information element codepoints. Its purpose is to maintain the current styles and make allocating new unique codepoints easier. It was for this reason that the work was initiated by the ETSI Technical Working Group SPAN.

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1 Scope

The present document specifies the codepoints for messages and information elements used in V5 based standards. It is the ETSI master list and as such its purpose is to avoid duplication and aid in the correct allocation of new codepoints.

The present document is initially applicable to V5.1 [1], V5.2 [2], NMDS [3] and the ATM Forum LES using AAL2 [4].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] ETSI EN 300 324-1 (V1.2.3): "V interfaces at the digital Local Exchange (LE); V5.1 interface for the support of Access Network (AN); Part 1: V5.1 interface specification".
- [2] ETSI EN 300 347-1: "V interfaces at the digital Local Exchange (LE); V5.2 interface for the support of Access Network (AN); Part 1: V5.2 interface specification".
- [3] ETSI EN 301 141: "Integrated Services Digital Network (ISDN); Narrowband Multi-service Delivery System (NMDS)".
- [4] af-vmoa-0145 (2002): "Voice and Multimedia Over ATM - Loop Emulation Service Using AAL2".
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- [5] ETSI TS 100 347 (V1.1.1): "Services and Protocols for Advanced Networks (SPAN); V5.2 interface for the support of Access Network (AN); Release notes for V5.2".

3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AAL2	ATM Adaption Layer number 2
AN	Access Network
ATM	Asynchronous Transfer Mode
BCC	Bearer Channel Control
CID	Channel Identifier
ISDN	Integrated Services Digital Network
LE	Local Exchange
LES	Loop Emulation Service
NMDS	Narrowband Multi-service Delivery System
NTN	Network Termination Node
PSTN	Public Switched Telephone Network
VMOA	Voice and Multimedia Over ATM

4 Message type codepoints

4.1 Guidance rules

New message type codepoints shall be allocated as the next available codepoint for the protocol to which the message relates. Where both a new protocol and a new message are required the new protocol shall be chosen to be unique and allow for enough messages to meet the immediate need and allow for some future expansion. In general, the protocol is defined by bits 7 to 5 (or 4) of the message name codepoint, and the message number is defined by bits 1 to 3 (or 4) of the message name codepoint. This approach allows for a maximum of either 8 or 16 messages per protocol which has hitherto been sufficient.

4.2 Currently defined codepoints

Table 4.1 shows the message types allocated to the V5 based interfaces and protocols. Currently those standards included are the ETSI V5.1 [1], V5.2 [2] and NMDS [3] interfaces.

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Table 4.1: Message type codepoints used within the V5 based interfaces

Bits							Message types
7	6	5	4	3	2	1	
0	0	0	-	-	-	-	PSTN protocol message types
0	0	0	0	0	0	0	ESTABLISH
0	0	0	0	0	0	1	ESTABLISH ACKNOWLEDGE
0	0	0	0	0	1	0	SIGNAL
0	0	0	0	0	1	1	SIGNAL ACKNOWLEDGE
0	0	0	1	0	0	0	DISCONNECT
0	0	0	1	0	0	1	DISCONNECT COMPLETE
0	0	0	1	1	0	0	STATUS ENQUIRY
0	0	0	1	1	0	0	MAINTENANCE STATUS ENQUIRY (NMDS only)
0	0	0	1	1	0	1	STATUS
0	0	0	1	1	0	1	MAINTENANCE STATUS (NMDS only)
0	0	0	1	1	1	0	PROTOCOL PARAMETER
0	0	1	0	-	-	-	Control protocol message types
0	0	1	0	0	0	0	PORT CONTROL
0	0	1	0	0	0	1	PORT CONTROL ACKNOWLEDGE
0	0	1	0	0	1	0	COMMON CONTROL
0	0	1	0	0	1	1	COMMON CONTROL ACKNOWLEDGE
0	0	1	1	-	-	-	Protection protocol message types
0	0	1	1	0	0	0	SWITCH-OVER REQUEST
0	0	1	1	0	0	1	SWITCH-OVER COMMAND
0	0	1	1	0	1	0	OS SWITCH-OVER COMMAND
0	0	1	1	0	1	1	SWITCH-OVER ACKNOWLEDGE
0	0	1	1	1	0	0	SWITCH-OVER REJECT
0	0	1	1	1	0	1	PROTOCOL ERROR
0	0	1	1	1	1	0	RESET SN COMMAND
0	0	1	1	1	1	1	RESET SN ACKNOWLEDGE
0	1	0	-	-	-	-	BCC protocol message types
0	1	0	0	0	0	0	ALLOCATION
0	1	0	0	0	0	1	ALLOCATION COMPLETE
0	1	0	0	0	1	0	ALLOCATION REJECT
0	1	0	0	0	1	1	DE-ALLOCATION
0	1	0	0	1	0	0	DE-ALLOCATION COMPLETE
0	1	0	0	1	0	1	DE-ALLOCATION REJECT
0	1	0	0	1	1	0	AUDIT
0	1	0	0	1	1	1	AUDIT COMPLETE
0	1	0	1	0	0	0	AN FAULT
0	1	0	1	0	0	1	AN FAULT ACKNOWLEDGE
0	1	0	1	0	1	0	PROTOCOL ERROR
0	1	1	0	-	-	-	Link control protocol message types
0	1	1	0	0	0	0	LINK CONTROL
0	1	1	0	0	0	1	LINK CONTROL ACKNOWLEDGE

NOTE: All other values are reserved.

5 Information element identifier codepoints

5.1 Guidance rules

New information element identifier codepoints shall be allocated as the next available codepoint in the sequence associated with the protocol to which the message (or messages) which are to carry the information element belong. On occasion this may require starting a new block of information element identifier codepoints to avoid the situation of a codepoint being used for more than one protocol but with a different meaning and information element contents in each case. Every effort shall be made to maintain uniqueness and when allocating new blocks to allow for future expansion.