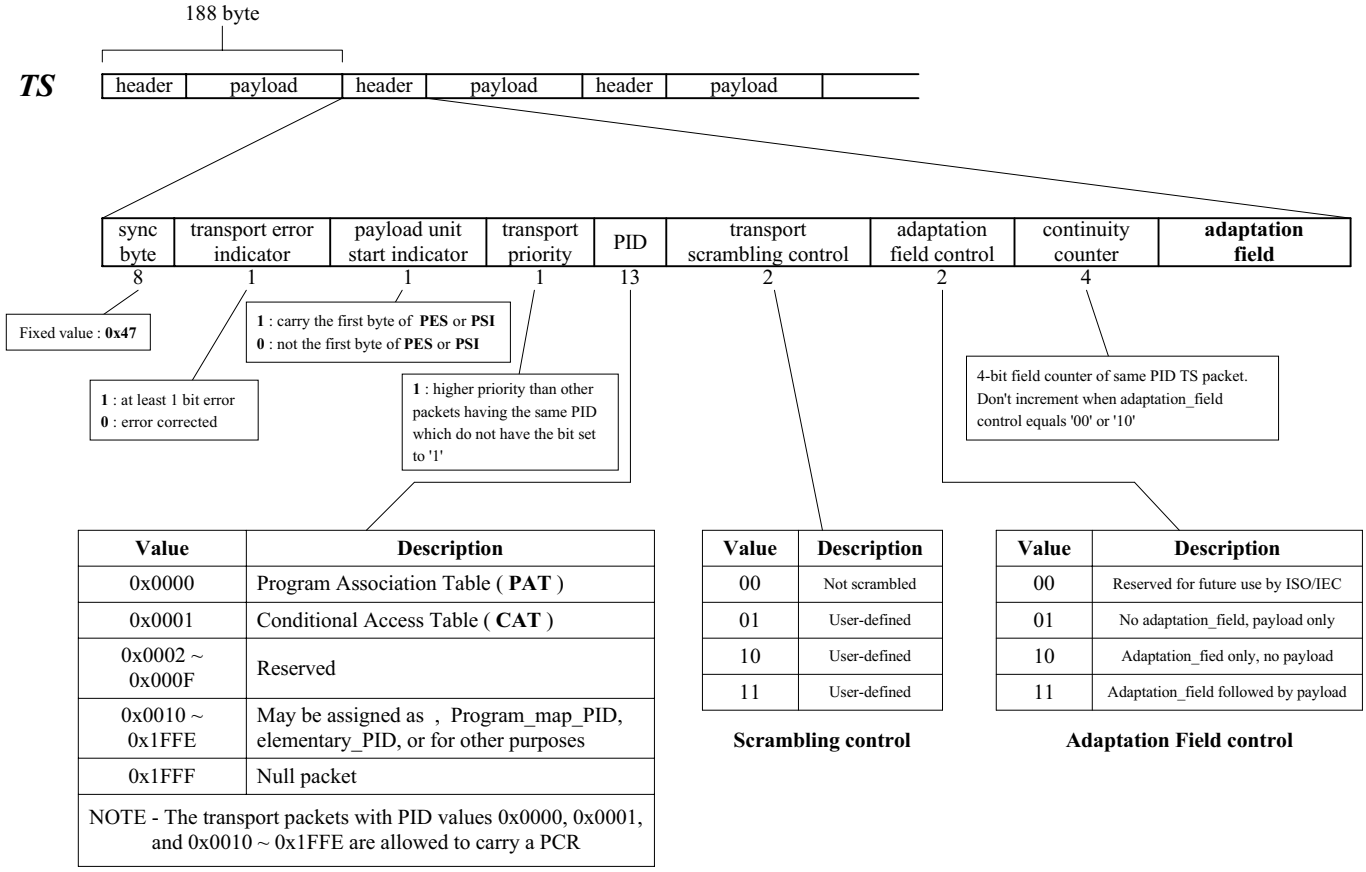


Value	Description
0x0000	Program Association Table (**PAT**)
0x0001	Conditional Access Table (**CAT**)
0x0002 ~ 0x000F	Reserved
0x0010 ~ 0x1FFE	May be assigned as , Program_map_PID, elementary_PID, or for other purposes
0x1FFF	Null packet
NOTE - The transport packets with PID values 0x0000, 0x0001, and 0x0010 ~ 0x1FFE are allowed to carry a PCR	

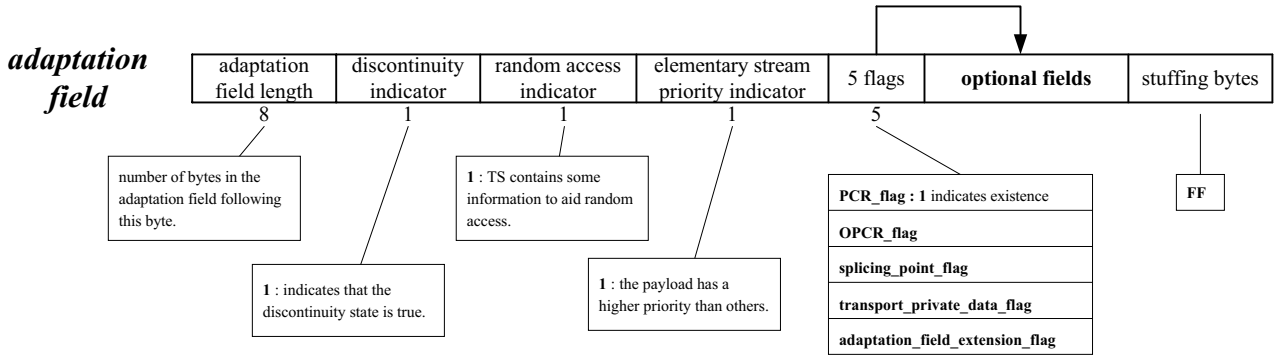
PID table

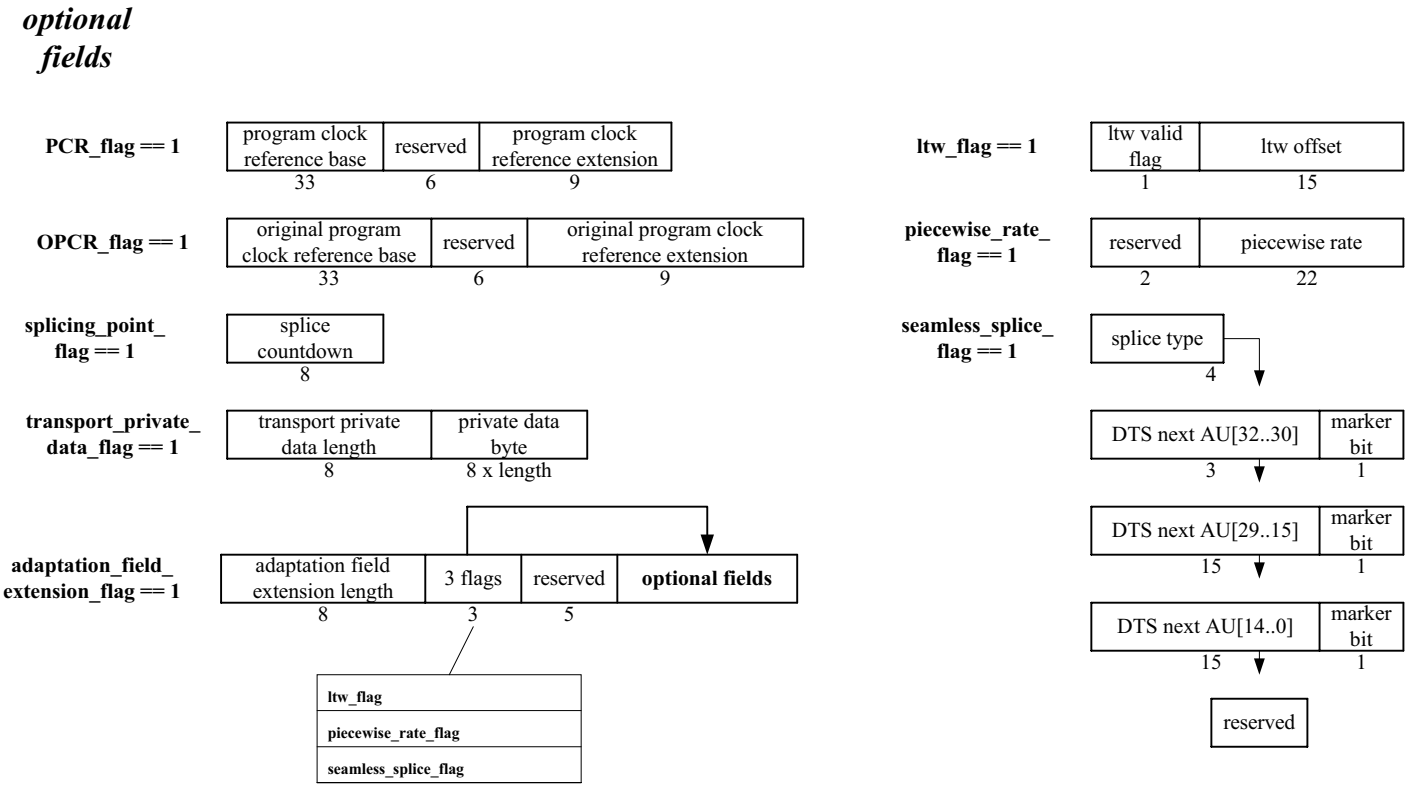
Value	Description
00	Not scrambled
01	User-defined
10	User-defined
11	User-defined

Scrambling control

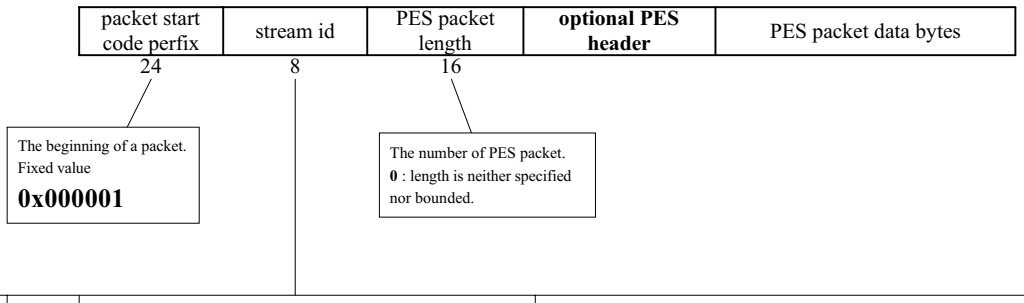
Value	Description
00	Reserved for future use by ISO/IEC
01	No adaptation_field, payload only
10	Adaptation_fied only, no payload
11	Adaptation_field followed by payload

Adaptation Field control



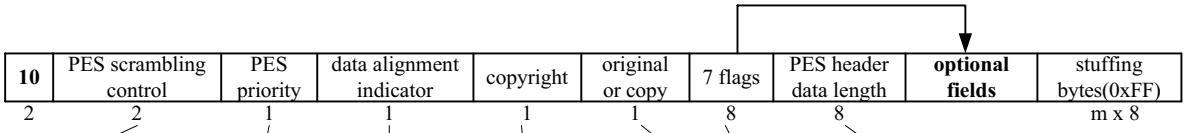


PES



stream_id	Note	Stream coding	Comments
1011 1100	1	program_stream_map	
1011 1101	2	private_stream_1	
1011 1110		padding_stream	
1011 1111	3	private_stream_2	The notation x means that the value '0' or '1' are both permitted and results in the same stream type. The stream number is given by the values taken by the x's.
110x xxxx		ISO/IEC 13818-3 or ISO/IEC 11172-3 audio stream number xxxx	
1110 xxxx		ITU-T Rec. H.262.0 | ISO/IEC 13818-2 or ISO/IEC 11172-2 video stream number xxxx	NOTES
1111 0000	3	ECM_stream	1. PES packets of type program_stream_map have unique syntax specfied in 2.5.4.1.
1111 0001	3	EMM_stream	2. PES packets of type private_stream_1 and ISO/IEC_13552_stream follow the same PES packet syntax as those for ITU-T Rec. H.262 | ISO/IEC 13818-2 video and ISO/IEC 13818-3 audio streams.
1111 0010	5	ITU-T Rec. H.222.0 | ISO/IEC 13818-1 Annex B or ISO/IEC 13818-6_DSMCC_stream	3. PES packets of type private_stream_2, ECM_stream and EMM_stream are similar to private_stream_1 except no syntax is specified after PES_packet_length field.
1111 0011	2	ISO/IEC_13522_stream	4. PES packets of type program_stream_directory have a unique syntax specified in 2.5.5.
1111 0100	6	ITU-T Rec. H.222.1 type A	5. PES packets of type DSM-CC_stream have a unique syntax specified in ISO/IEC 13818-6.
1111 0101	6	ITU-T Rec. H.222.1 type B	6. This stream_id is associated with stream_type 0x09 in Table 2-29.
1111 0110	6	ITU-T Rec. H.222.1 type C	7. This stream_id is only used in PES packets, which carry data from a Program Stream or an ISO/ IEC 11172-1 System Stream, in a Transport Stream(refer ro 2.4.3.7).
1111 0111	6	ITU-T Rec. H.222.1 type D	
1111 1000	6	ITU-T Rec. H.222.1 type E	
1111 1001	7	ancillary_stream	
1111 1010 ... 1111 1110		Reserved data stream	
1111 1111	4	program_stream_directory	

optional PES header



Value	Description
00	Not scrambled
01	User-defined
10	User-defined
11	User-defined

PES scrambling control

1 : higher priority of the payload of the PES packet payload than a PES packet payload with this field set to '0'.

1 : the material of the associated PES packet payload is protected by copyright. (refer to copyright descriptor)

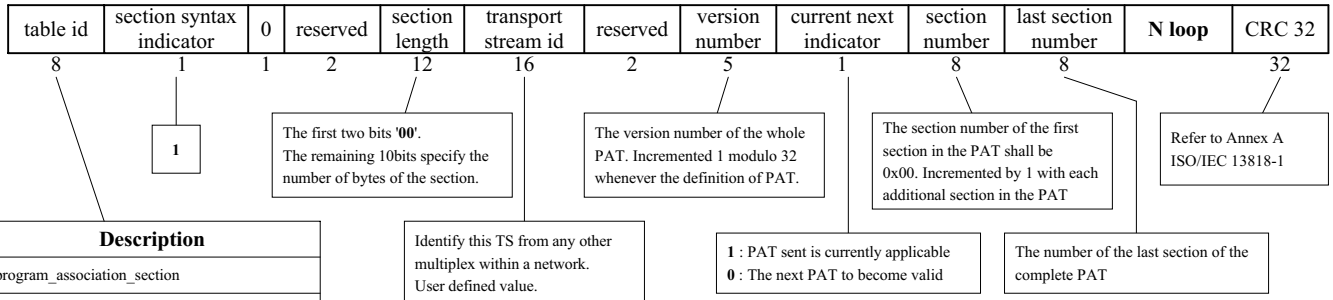
the total number of bytes occupied by the optional fields and any stuffing bytes contained in this PES packet header.

1 : PES packet header is immediately followed by video start code or audio syncword indicated in the data_stream_alignment_descriptor in 2.6.10.

1 : original
0: copy

PTS_DTS_flag : 10 - PTS, **11** - PTS & DTS, **00** - neither.
ESCR_flag
ES_rate_flag
DSM_trick_mode_flag
additional_copy_info_flag
PES_CRC_flag
PES_extension_flag

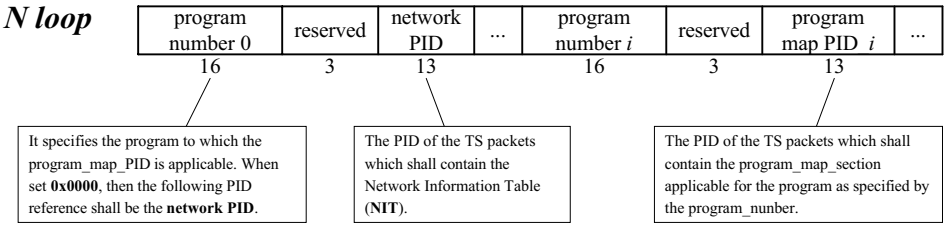
PAT



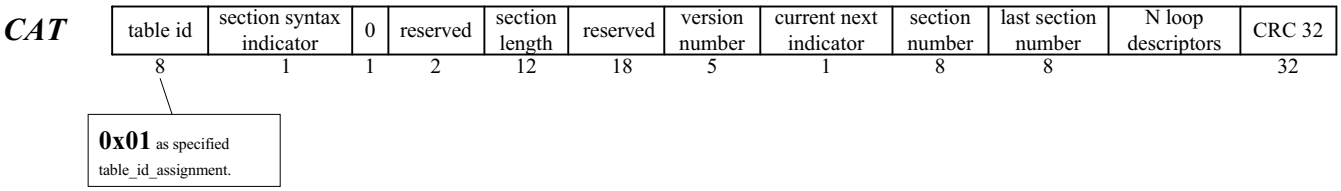
Value	Description
0x00	program_association_section
0x01	conditional_access_section(CA_section)
0x02	TS_program_map_section
0x03 ~ 0x3F	ITU-T Rec. H.222.0 | ISO/IEC 13818-1 reserved
0x40 ~ 0xFE	User private
0x02	Forbidden

table_id_assignment values

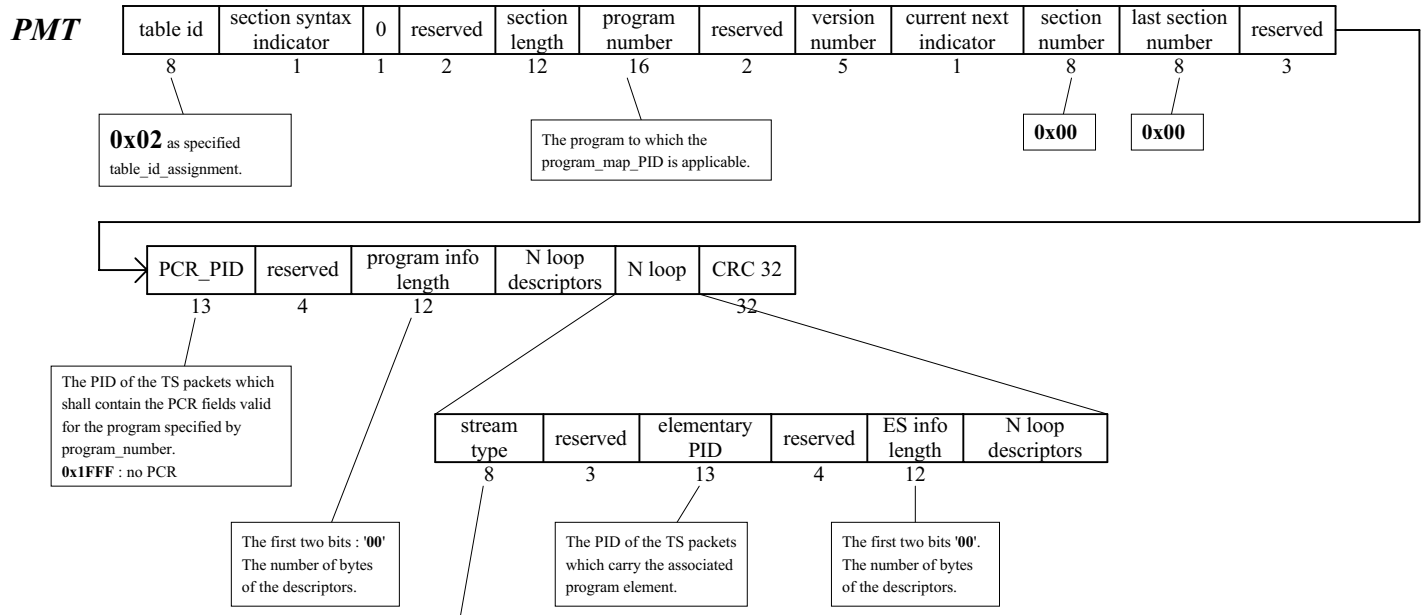
N loop



CAT

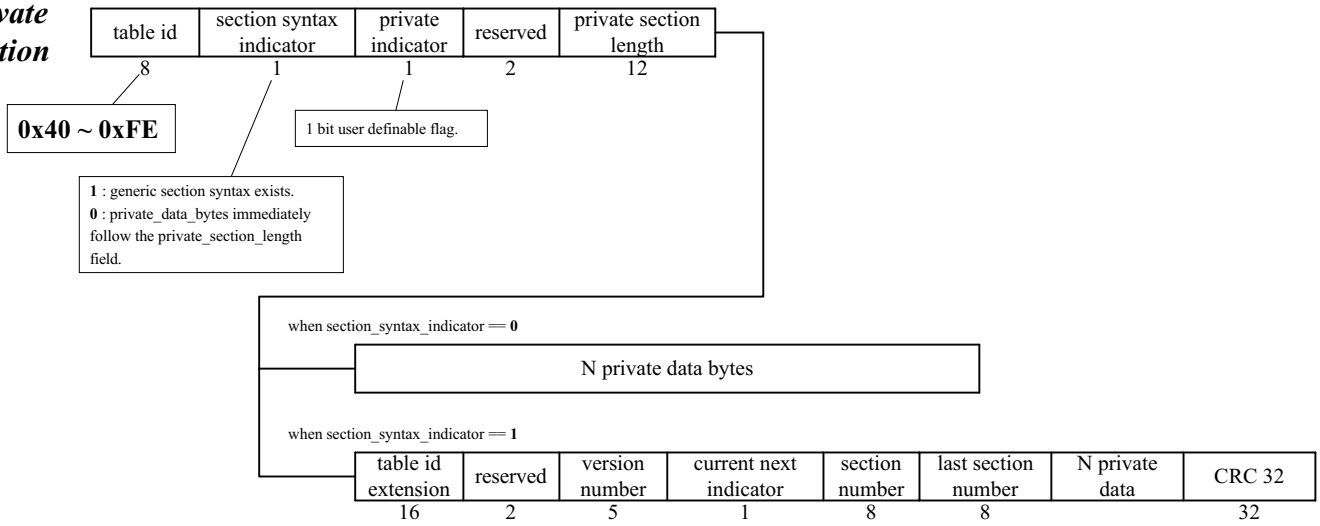


PMT



Value	Description
0x00	ITU-T | ISO/IEC reserved
0x01	ISO/IEC 11172-2 Video
0x02	ITU-T Rec. H.262 | ISO/IEC 13818-2 Video or ISO/IEC 11172-2 constrained parameter video stream
0x03	ISO/IEC 11172-3 Audio
0x04	ISO/IEC 13818-3 Audio
0x05	ITU-T Rec. H.222.0 | ISO/IEC 13818-1 private_sections
0x06	ITU-T Rec. H.222.0 | ISO/IEC 13818-1 PES packets containing private data
0x07	ISO/IEC 13522 MHEG
0x08	Annex A - DSM CC
0x09	ITU-T Rec. H.222.1
0x0A	ISO/IEC 13818-6 type A
0x0B	ISO/IEC 13818-6 type B
0x0C	ISO/IEC 13818-6 type C
0x0D	ISO/IEC 13818-6 type D
0x0E	ISO/IEC 13818-1 auxiliary
0x0F ~ 0x7F	ITU-T Rec. H.222.0 | ISO/IEC 13818-1 reserved
0x80 ~ 0xFF	User private

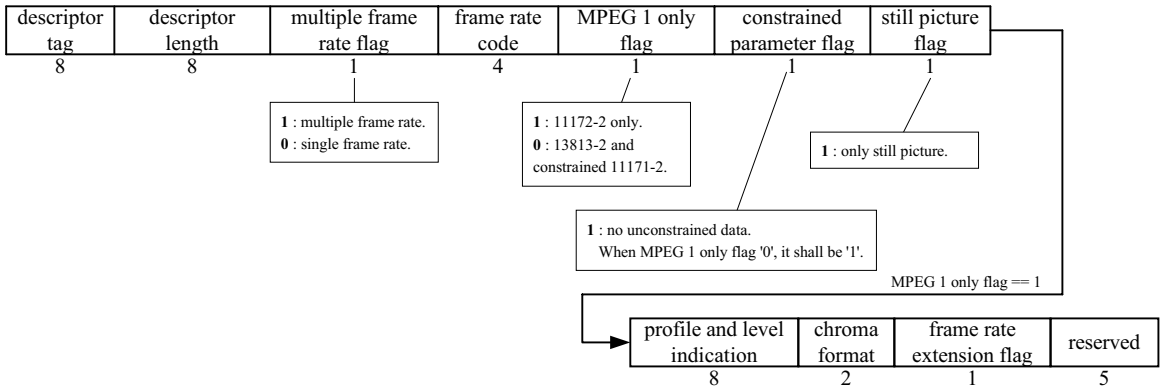
Private Section



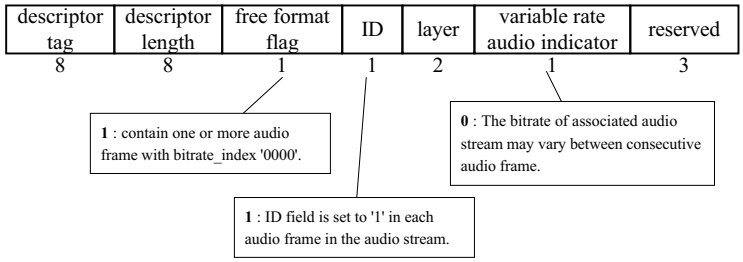
descriptor tag	Identification	descriptor tag	Identification
0x00	Reserved	0x0B	system_clock_descriptor
0x01	Reserved	0x0C	multiplex_buffer_utilization_descriptor
0x02	video_stream_descriptor	0x0D	copyright_descriptor
0x03	audio_stream_descriptor	0x0E	maximum_bitrate descriptor
0x04	hierachy_descriptor	0x0F	private_data_indicator_descriptor
0x05	registration_descriptor	0x10	smoothing_buffer_descriptor
0x06	data_stream_alignment_descriptor	0x11	STD_descriptor
0x07	target_background_grid_descriptor	0x12	IBP_descriptor
0x08	video_window_descriptor	0x13 ~ 0x3F	ITU-T Rec. H.222.0 | ISO/IEC 13818-1 Reserved
0x09	CA_descriptor	0x40 ~ 0xFF	User Private
0x0A	ISO_639_language_descriptor		

Descriptors

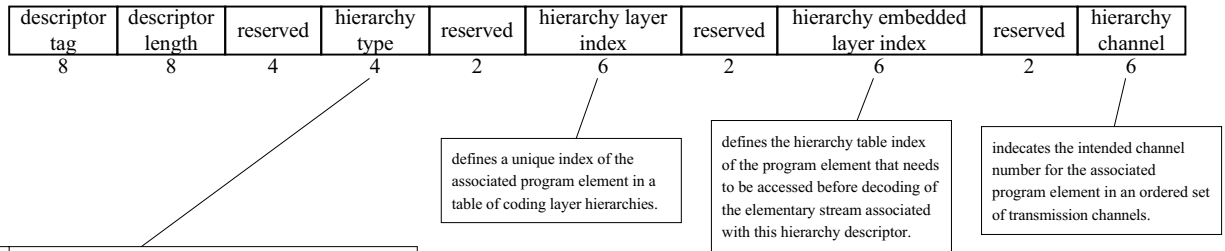
Video stream descriptor



Audio stream descriptor



Hierarchy descriptor



Value	Description
0x0	Reserved
0x1	ITU-T Rec. H.262 | ISO/IEC 13818-2 Spatial Scalability
0x2	ITU-T Rec. H.262 | ISO/IEC 13818-2 SNR Scalability
0x3	ITU-T Rec. H.262 | ISO/IEC 13818-2 Temporal Scalability
0x4	ITU-T Rec. H.262 | ISO/IEC 13818-2 Data partitioning
0x5	ISO/IEC 13818-3 Extension bitstream
0x6	ITU-T Rec. H.262 | ISO/IEC 13818-2 Private Stream
0x7 ~ 0xE	Reserved
0xF	Base layer

Hierarchy type field values

Registration descriptor

descriptor tag	descriptor length	format identifier	additional identification info
8	8	32	8

obtained from a Resistration Authority as designated by SC29

Data stream alignment descriptor

descriptor tag	descriptor length	alignment type
8	8	8

refer to table in right side.

Alignment type	Description
0x00	Reserved
0x01	Slice, or video access unit
0x02	Video access unit
0x03	GOP, or SEQ
0x04	SEQ
0x05 ~ 0xFF	Reserved

Video stream alignment values

Alignment type	Description
0x00	Reserved
0x01	Sync word
0x02 ~ 0xFF	Reserved

Audio stream alignment values

Target background grid descriptor

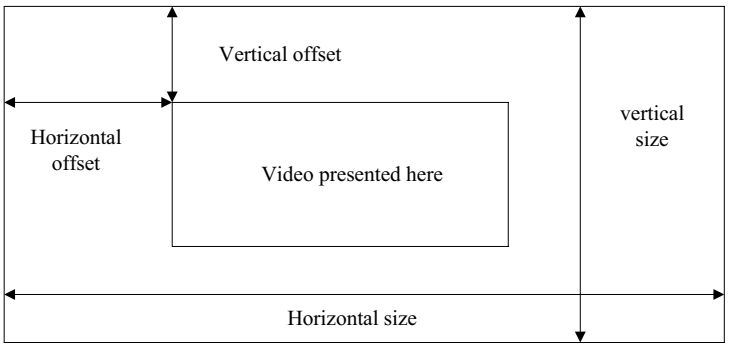
descriptor tag	descriptor length	horizontal size	vertical size	aspect ratio information
8	8	14	14	4

value	DAR
0000	Forbidden
0001	-
0010	3/4
0011	9/16
0100	1/2.21
0101	Reserved
....	....
1111	Reserved

Aspect ratio information

Video window descriptor

descriptor tag	descriptor length	horizontal offset	vertical offset	window priority
8	8	14	14	4



Conditional access descriptor

descriptor tag	descriptor length	CA system ID	reserved	CA PID	N private data byte
8	8	16	3	13	8

1. CA descriptor is found in **PMT**, the CA_PID points to packets containg program related access control information, such as **ECM**s.
2. CA descriptor is found in **CAT**, the CA_PID points to packets containg systemwide and/or access control management information, such as **EMM**s.

ISO 639 language descriptor

descriptor tag	descriptor length	ISO 639 language code	audio type
8	8	24	8

Value	Description
0x00	Undefined
0x01	**Clean effects** : program element has no language.
0x02	**Hearing impaired** : prepared for the hearing impaired
0x03	**Visual impaired commentary** : prepared for the visually impaired viewer.
0x04 ~ 0xFF	Reserved

Audio type values

System clock descriptor

descriptor tag	descriptor length	external clock reference indicator	reserved	clock accuracy integer	clock accuracy exponent	reserved
8	8	1	1	6	3	5

1 : indicates that the system clock has been derived form an external frequency reference that may be available at the decoder.

They give the fractional frequency accuracy of the system clock in parts per million.

Multiplex buffer utilization descriptor

descriptor tag	descriptor length	bound valid flag	LTW offset lower bound	reserved	LTW offset upper bound
8	8	1	15	1	14

Copyright descriptor

descriptor tag	descriptor length	copyright identifier	N additional copyright info
8	8	32	8

Maximum bitrate descriptor

descriptor tag	descriptor length	reserved	maximum bitrate
8	8	2	22

Private data indicator descriptor

descriptor tag	descriptor length	private data indicator
8	8	32

Smoothing buffer descriptor

descriptor tag	descriptor length	reserved	sb leak rate	reserved	sb size
8	8	2	22	2	22

STD descriptor

descriptor tag	descriptor length	reserved	leak valid flag
8	8	7	1

IBP descriptor

descriptor tag	descriptor length	closed gop flag	identical gop flag	max gop length
8	8	1	1	14

1 : indicates that a group of pictures header is encoded before every I-frame and that the closed gop flag is set to 1 in all group of pictures headers in the video sequence.

The maximum number of the coded pictures between any two consecutive I-pictures in the sequence.

1 : indicates that the number of P-frames and B-frames between I-frames, and the picture coding types and sequence of picture types between I-pictures is **the same throughout the sequence.**

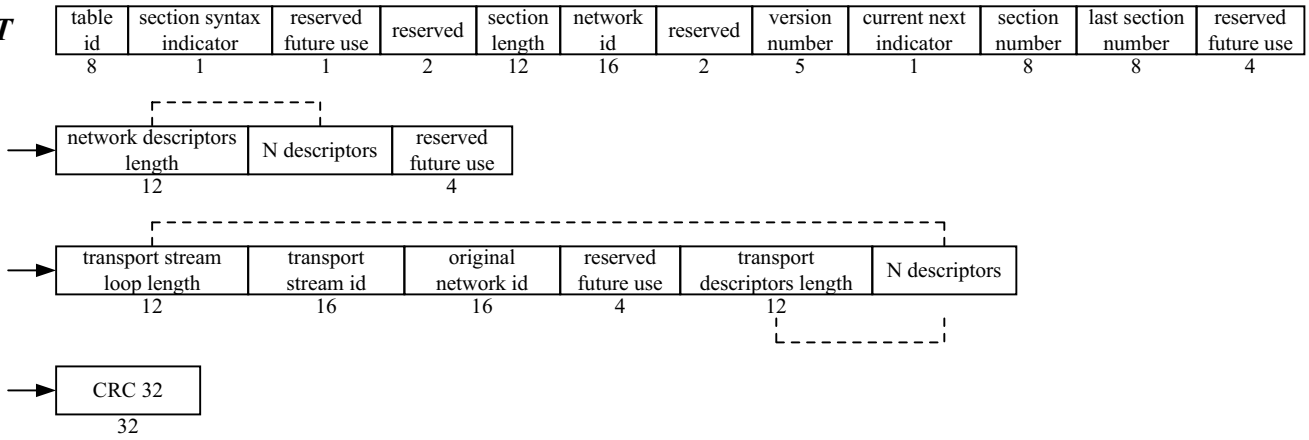
Table	PID value
PAT	0x0000
CAT	0x0001
TSDT	0x0002
reserved	0x0003 ~ 0x000F
NIT, ST	0x0010
SDT, BAT, ST	0x0011
EIT, ST	0x0012
RST, ST	0x0013
TDT, TOT, ST	0x0014
network synchronization	0x0015
reserved for future use	0x0016 ~ 0x001D
DIT	0x001E
SIT	0x001F

PID allocation for SI

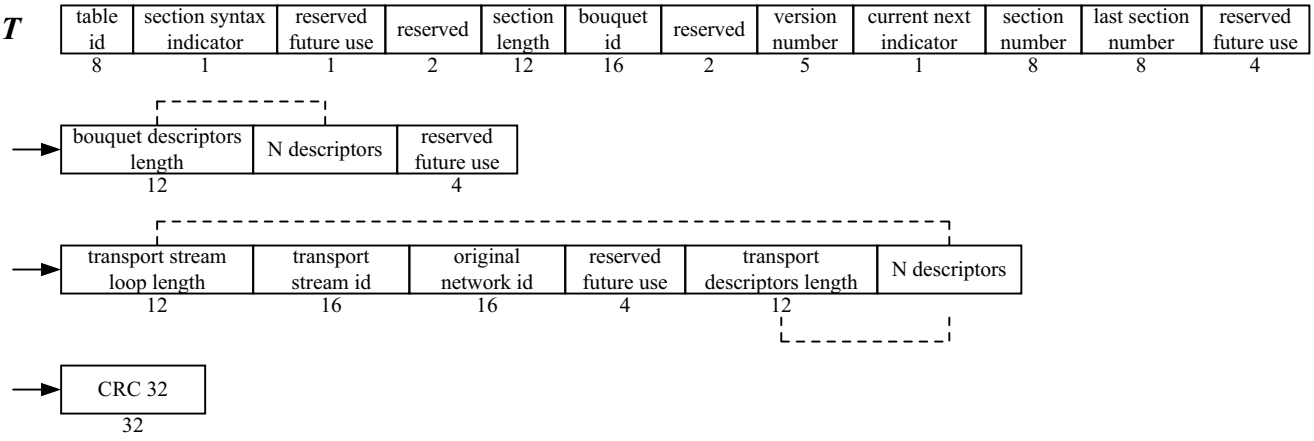
PID value	Table	PID value	Table
0x00	program_association_section	0x4E	event_information_section - actual_transport_stream, present/following
0x01	conditional_access_section	0x4F	event_information_section - other_transport_stream, present/following
0x02	program_map_section	0x50 ~ 0x5F	event_information_section - actual_transport_stream, schedule
0x03	transport_stream_description_section	0x60 ~ 0x6F	event_information_section - other_transport_stream, schedule
0x04 ~ 0x3F	reserved	0x70	time_date_section
0x40	network_information_section - actual_network	0x71	stuffing_section
0x41	network_information_section - other_network	0x72	running_status_section
0x42	service_description_section - actual_transport_stream	0x73	time_offset_section
0x43 ~ 0x45	reserved for future use	0x74 ~ 0x7D	reserved for future use
0x46	service_description_section - other_transport_stream	0x7E	discontinuity_information_section
0x47 ~ 0x49	reserved for future use	0x7F	selection_information_section
0x4A	bouquet_association_section	0x80 ~ 0xFE	user defined
0x4B ~ 0x4D	reserved for future use	0xFF	reserved

Allocation of table_id values

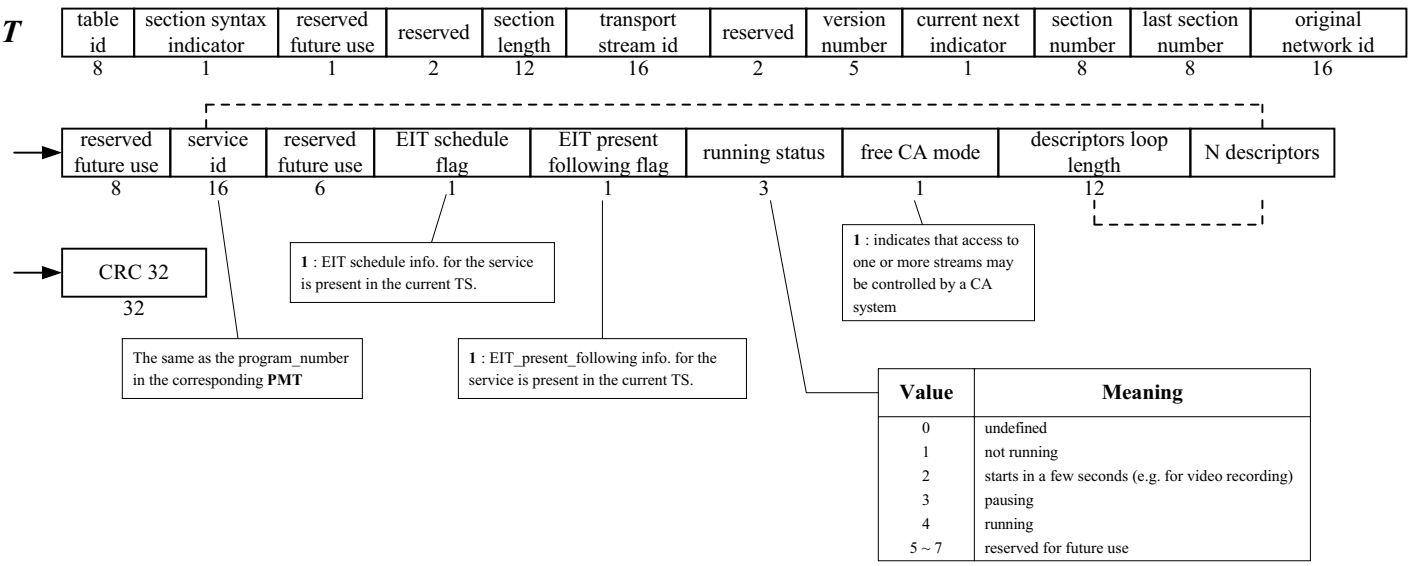
NIT



BAT



SDT



Value	Meaning
0	undefined
1	not running
2	starts in a few seconds (e.g. for video recording)
3	pausing
4	running
5 ~ 7	reserved for future use

EIT

table id	section syntax indicator	reserved future use	reserved	section length	service id	reserved	version number	current next indicator	section number	last section number
8	1	1	2	12	16	2	5	1	8	8

transport stream id	original network id	segment last section number	last table id
16	16	8	8

The number of the last section of this segment of the sub_table.
For sub_tables which are not segmented, this field shall be the same value as the last_section_number field

The last table_id used. If only one table is used this is set to the table_id of this table.

event id	start time	duration	running status	free CA mode	descriptors loop length	N descriptors	CRC 32
16	40	24	3	1	12		32

Contain the start time of the event in UTC, MJD. (refer to EN 300 468 annex C)

Contain the duration of the event. 6digits, 4-bit BCD
EX) 01:45:30 - "0x014530"

TDT

table id	section syntax indicator	reserved future use	reserved	section length	UTC time
8	1	1	2	12	40

0

TOT

table id	section syntax indicator	reserved future use	reserved	section length	UTC time	reserved	descriptors loop length	N descriptors	CRC 32
8	1	1	2	12	40	4	12		32

0

RST

table id	section syntax indicator	reserved future use	reserved	section length	transport stream id	original network id	service id	event id	reserved future use	running status
8	1	1	2	12	16	16	16	16	5	3

0

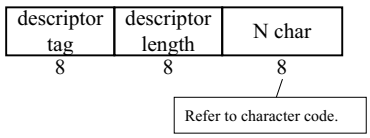
ST

table id	section syntax indicator	reserved future use	reserved	section length	N data bytes
8	1	1	2	12	8

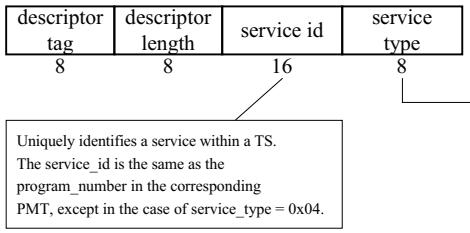
0 or 1

Tag value	Descriptor	Location	Tag value	Descriptor	Location
0x40	network_name_descriptor	NIT	0x55	parental_rating_descriptor	EIT
0x41	service_list_descriptor	NIT, BAT	0x56	teletext_descriptor	PMT
0x42	stuffing_descriptor	NIT, BAT, SDT, EIT	0x57	telephone_descriptor	SDT, EIT
0x43	satellite_delivery_system_descriptor	NIT	0x58	local_time_offset_descriptor	TOT
0x44	cable_delivery_system_descriptor	NIT	0x59	subtitling_descriptor	PMT
0x45	reserved for future use	-	0x5A	terrestrial_delivery_system_descriptor	NIT
0x46	reserved for future use	-	0x5B	multilingual_network_name_descriptor	NIT
0x47	bouquet_name_descriptor	BAT, SDT	0x5C	multilingual_bouquet_name_descriptor	BAT
0x48	service_descriptor	SDT	0x5D	multilingual_service_name_descriptor	SDT
0x49	country_availability_descriptor	BAT, SDT	0x5E	multilingual_component_descriptor	EIT
0x4A	linkage_descriptor	NIT, BAT, SDT, EIT	0x5F	private_data_specifier_descriptor	NIT,BAT,SDT,EIT,PMT
0x4B	NVOD_reference_descriptor	SDT	0x60	service_move_descriptor	PMT
0x4C	time_shifted_service_descriptor	SDT	0x61	short_smoothing_buffer_descriptor	EIT
0x4D	short_event_descriptor	EIT	0x62	frequency_list_descriptor	NIT
0x4E	extended_event_descriptor	EIT	0x63	partial_transport_stream_descriptor	-
0x4F	time_shifted_event_descriptor	EIT	0x64	data_broadcast_descriptor	SDT, EIT
0x50	component_descriptor	EIT	0x65	CA_system_descriptor	PMT
0x51	mosaic_descriptor	SDT, PMT	0x66	data_broadcast_id_descriptor	PMT
0x52	stream_identifier_descriptor	PMT	0x67 ~ 0x7F	reserved for future use	-
0x53	CA_identifier_descriptor	BAT, SDT, EIT	0x80 ~ 0xFE	user defined	-
0x54	content_descriptor	EIT	0xFF	Forbidden	-

Network name descriptor

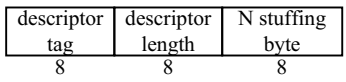


Service list descriptor

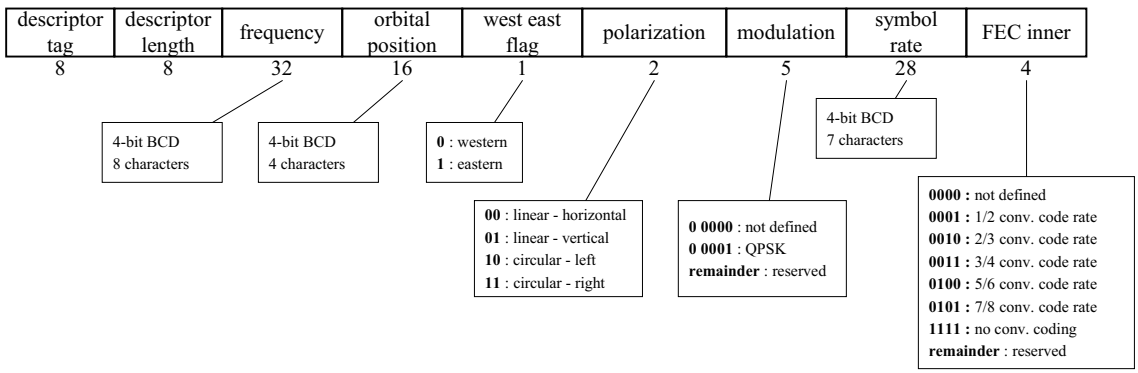


Service type	Description
0x00	reserved for future use
0x01	digital television service
0x02	digital radio sound service
0x03	Teletext service
0x04	NVOD reference service
0x05	NVOD time-shifted service
0x06	mosaic service
0x07	PAL coded signal
0x08	SECAM coded signal
0x09	D/D2-MAC
0x0A	FM Radio
0x0B	NTSC coded signal
0x0C	data broadcast service
0x0D ~ 0x7F	reserved for future use
0x80 ~ 0xFE	user defined
0xFF	Forbidden

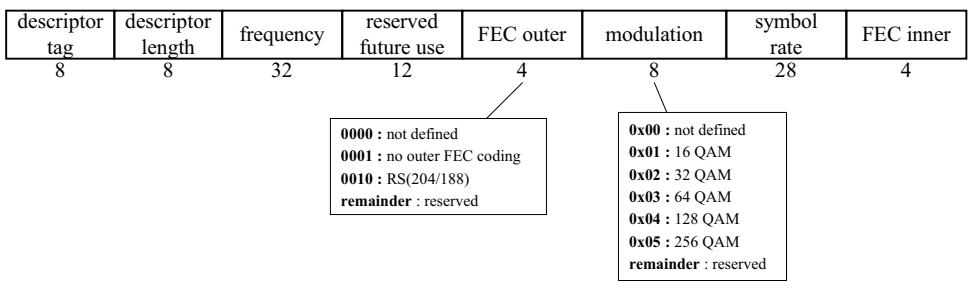
Stuffing descriptor



Satellite delivery system descriptor



Cable delivery system descriptor



Bouquet name descriptor

descriptor tag	descriptor length	N char
8	8	8

Service descriptor

descriptor tag	descriptor length	service type	service provider name length	N char	service name length	N char
8	8	8	8	8	8	8

Country availability descriptor

descriptor tag	descriptor length	country availability flag	reserved future use	country code
8	8	1	7	24

Linkage descriptor

descriptor tag	descriptor length	transport stream id	original network id	service id	linkage type	N private data byte
8	8	16	16	16	8	8

0x00 : reserved for future use
0x01 : information service
0x02 : EPG service
0x03 : CA replacement service
0x04 : TS containing complete Network/Bouquet SI
0x05 : service replacement service
0x06 : data broadcast service
0x07 ~ 0x7F : reserved
0x80 ~ 0xFE : user defined
remainder : reserved

NVOD reference descriptor

descriptor tag	descriptor length	transport stream id	original network id	service id
8	8	16	16	16

Time shifted service descriptor

descriptor tag	descriptor length	reference service id	reference event id
8	8	16	16

Identifies the reference service of a NVOD collection services.

Identifies the reference event of which the event described by this descriptor is a time shifted-copy

Short event descriptor

descriptor tag	descriptor length	ISO 639 language code	event name length	N char	text length	N char
8	8	24	8	8	8	8

Extended event descriptor

descriptor tag	descriptor length	descriptor number	last descriptor number	ISO 639 language code
8	8	4	2	24

length of items	item description length	item description N char	item length	N item char
8	8	8	8	8

text length	N text char
8	8

Time shifted event descriptor

descriptor tag	descriptor length	reference service id	reference event id
8	8	16	16

Component descriptor

descriptor tag	descriptor length	reserved future use	stream content	component type	component tag	ISO 639 languqge code	N text char
8	8	4	4	8	8	24	8

The same value as the component_tag field in the stream_identifier descriptor for the component stream.

Stream content	Component type	Description	Stream content	Component type	Description
0x00	0x00 ~ 0xFF	reserved for future use	0x02	0xFF	reserved for future use
0x01	0x00	reserved for future use	0x03	0x00	reserved for future use
0x01	0x01	video, 4:3 aspect ratio	0x03	0x01	EBU Teletext subtitles
0x01	0x02	video, 16:9 aspect ratio with pan vectors	0x03	0x02	associated EBU Teletext
0x01	0x03	video, 16:9 aspect ratio without pan vectors	0x03	0x03 ~ 0x0F	reserved for future use
0x01	0x04	video, > 16:9 aspect ratio	0x03	0x10	DVB subtitles(normal) with no monitor aspect ratio criticality
0x01	0x05 ~ 0xFF	reserved for future use	0x03	0x11	DVB subtitles(normal) for display on 4:3 aspect ratio monitor
0x02	0x00	reserved for future use	0x03	0x12	DVB subtitles(normal) for display on 16:9 aspect ratio monitor
0x02	0x01	audio, single mono channel	0x03	0x13	DVB subtitles(normal) for display on 2.21:1 aspect ratio monitor
0x02	0x02	audio dual mono channel	0x03	0x14 ~ 0x1F	reserved for future use
0x02	0x03	audio, stereo(2 channel)	0x03	0x20	DVB subtitles(for the hard of hearing) with no monitor aspect ratio critically
0x02	0x04	audio, multi-lingual, multi-channel	0x03	0x21	DVB subtitles(for the hard of hearing) for display on 4:3 aspect ratio monitor
0x02	0x05	audio, surround sound	0x03	0x22	DVB subtitles(for the hard of hearing) for display on 16:9 aspect ratio monitor
0x02	0x06 ~ 0xFF	reserved for future use	0x03	0x23	DVB subtitles(for the hard of hearing) for display on 2.21:1 aspect ratio monitor
0x02	0x40	audio description for the visually impaired	0x03	0x24 ~ 0xFF	reserved for future use
0x02	0x41	audio for the hard of hearing	0x04 ~ 0x0B	0x00 ~ 0xFF	reserved for future use
0x02	0x42 ~ 0xAF	reserved for future use	0x0C ~ 0x0F	0x00 ~ 0xFF	user defined
0x02	0xB0~ 0xFE	user defined			

Mosaic descriptor

descriptor tag	descriptor length	mosaic entry point	number of horizontal elementary cells	reserved future use	number of vertical elementary cells
8	8	1	3	1	3

1 : indicates that the mosaic is the highest mosaic in a hierachy.

0x00 : one cell
0x01 : two cells
0x02 : three cells
0x03 : four cells
0x04 : five cells
0x05 : six cells
0x06 : seven cells
0x07 : eight cells

logical cell id	reserved future use	logical cell presentation info	elementary cell field length	reserved future use	elementary cell id	cell linkage info
6	7	3	8	2	6	8

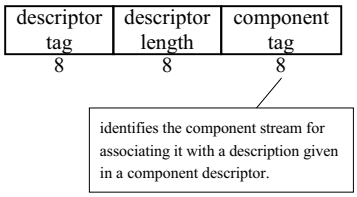
0x00 : undefined
0x01 : video
0x02 : still picture
0x03 : graphics/text
0x04 ~ 0x07 : reserved

0x00 : undefined
0x01 : bouquet related
0x02 : service related
0x03 : other mosaic related
0x04 : event related
0x05 ~ 0x07 : reserved

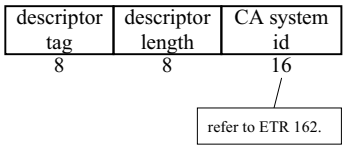
cell linkage info

0x01	bouquet id (16)			
0x02	original network id (16)	transport stream id (16)	service id (16)	
0x03	original network id (16)	transport stream id (16)	service id (16)	
0x04	original network id (16)	transport stream id (16)	service id (16)	event id (16)

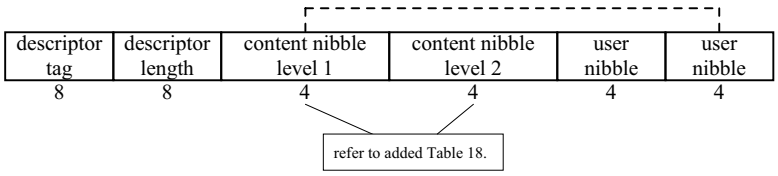
Stream identifier descriptor



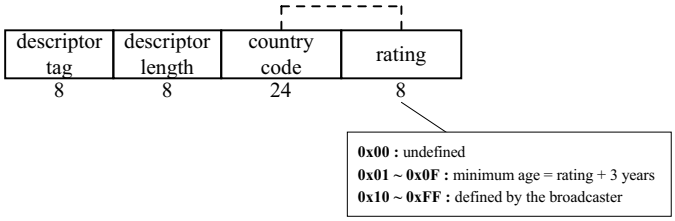
CA identifier descriptor



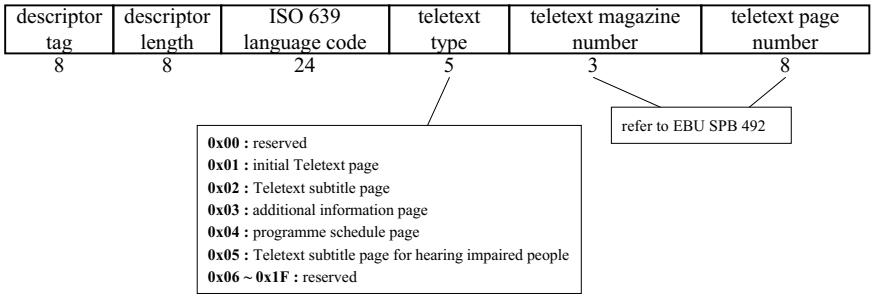
Content descriptor



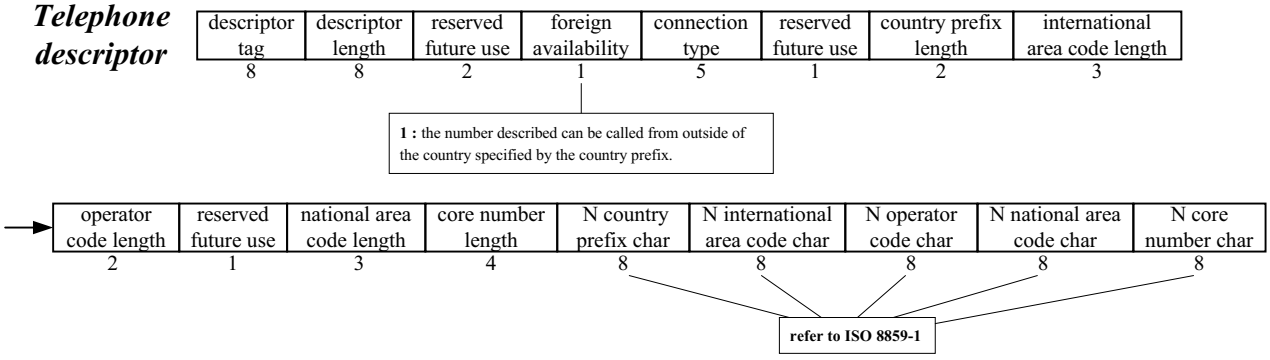
Parental rating descriptor



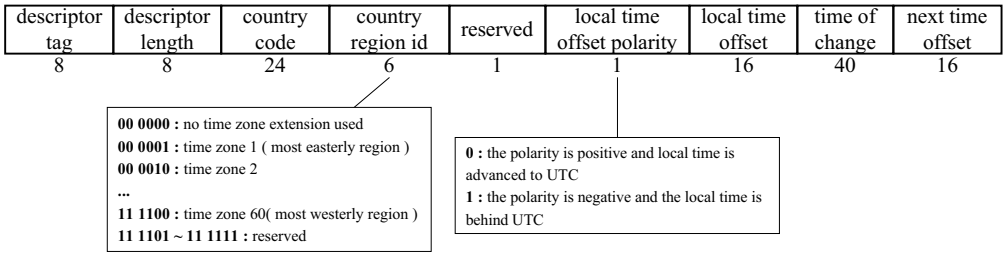
Teletext descriptor



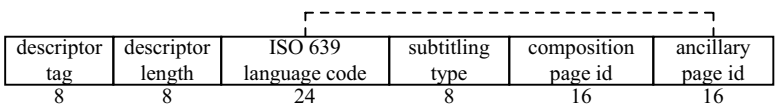
Telephone descriptor



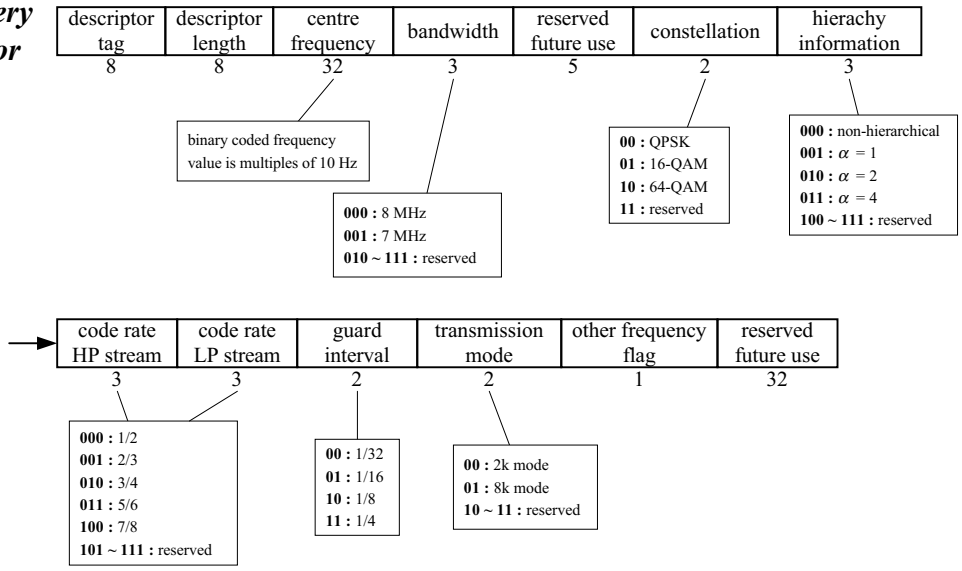
Local time offset descriptor



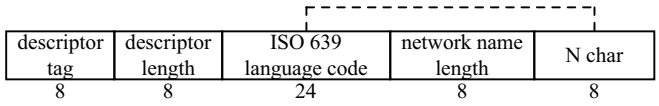
Subtitling descriptor



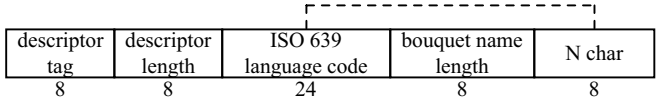
Terrestrial delivery system descriptor



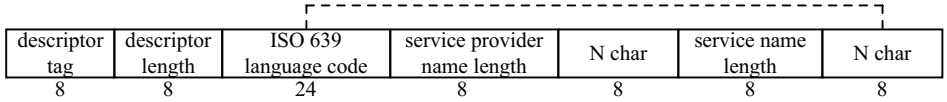
Multilingual network name descriptor



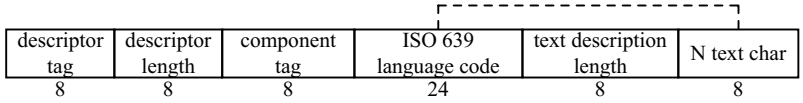
Multilingual bouquet name descriptor



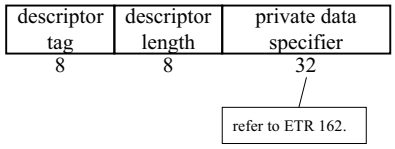
Multilingual service name descriptor



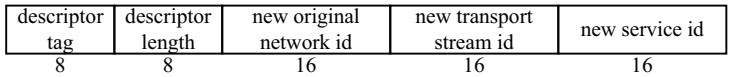
Multilingual component descriptor



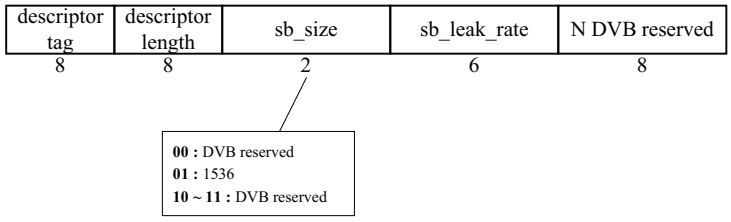
Private data specifier descriptor



Service move descriptor



Short smoothing buffer descriptor



Frequency list descriptor

descriptor tag	descriptor length	reserved future use	coding type	N centre frequency
8	8	6	2	32

00 : not defined
01 : satellite
10 : cable
11 : terrestrial

Partial TS descriptor

descriptor tag	descriptor length	DVB reserved future use	peak rate	DVB reserved future use	minimum overall smoothing rate	DVB reserved future use	maximum overall smoothing buffer
8	8	2	22	2	22	2	14

The maximum momentary transport packet rate (i.e. 188 bytes divided by the time interval between start times of two succeeding TS packets).

Minimum smoothing buffer leak rate for overall TS.

Maximum smoothing buffer size for overall TS.

Data broadcast descriptor

descriptor tag	descriptor length	data broadcast id	component tag	selector length	N selector byte	ISO 639 language code	text length	N text char
8	8	16	8	8	8	24	8	8

Data broadcast id descriptor

descriptor tag	descriptor length	data broadcast id
8	8	16

4 Register of Service Information (SI) codes

4.1 Network identification coding

The values given in table 1 are to be used to identify networks within the application area of ETS 300 468 [1], by insertion in the field network_id.

Table 1: Network_id

Network_id	Description	Network type	Operator
0x0000	Reserved	Reserved	Reserved
0x0001	Astra Satellite Network 19,2°E	Satellite	SES
0x0027	Hispasat 30°W	Satellite	Hispasat FSS
0x0028	Hispasat 30°W	Satellite	Hispasat DBS
0x0029	Hispasat 30°W	Satellite	Hispasat America
0x0035	Nethold Main Mux System	Local MPEG-2 Network	NetHold IMS
0x0040			HPT - Croatian Post and Telecommunications
0x0050			HRT - Croatian Radio and Television
0x0058	Thiacom 1 & 2 co-located 78.5°E	Satellite	Shinawatra Satellite
0x0069	Optus B3 156°E	Satellite	Optus Communications
0x0073	PanAmSat 4 68.5°E	Satellite	Pan American Satellite System
0x0085		Satellite	BetaTechnik
0x0090	National network	Terrestrial broadcast	TDF
0x00A0	National Cable Network	Cable	News Datacom
0x00A1	News Satellite Network	Satellite	News Datacom
0x00A2	News Satellite Network	Satellite	News Datacom
0x00A3	News Satellite Network	Satellite	News Datacom
0x00A4	News Satellite Network	Satellite	News Datacom
0x00A5	News Satellite Network	Satellite	News Datacom
0x00B4	Telesat 107.3°W	Satellite	Telesat Canada
0x00B5	Telesat 111.1°W	Satellite	Telesat Canada
0x013E	Eutelsat Satellite System 13°E	Satellite	European Telecommunications Satellite Organisation

4.2 Bouquet_id

The values given in table 2 are to be used to identify bouquets within the application area of ETS 300 468 [1], by insertion in the field bouquet_id.

Table 2: Bouquet_id

Bouquet_id	Bouquet name	Bouquet operator
0x0000	Reserved	Reserved
0x1000 - 0x101F	BSkyB n° (n°=1-32)	British Sky Broadcasting
0x2000	Kaleidascope Multichoice	Filmnet
0x3622	Irdeto Bouquet of Download data Services	Irdeto
0x4000	HPT	HPT
0x4010	HRT	HRT
0x5000 - 0x501F	BetaTechnik n° (n°=1-32)	BetaTechnik
0x6000 - 0x60BF	NDC n° (n°=1-192)	News Datacom

4.3 CA_system_id

The values given in table 3 are to be used to identify CA systems within the application area of ETS 300 468 [1], by insertion in the field CA_system_id.

Table 3: CA_system_id

CA_system_id values	CA system specifier
0x0000	Reserved
0x0001 to 0x00FF	Standardized systems
0x0100 to 0x01FF	Canal Plus
0x0200 to 0x02FF	CCETT
0x0300 to 0x03FF	Deutsche Telecom
0x0400 to 0x04FF	Eurodec
0x0500 to 0x05FF	France Telecom
0x0600 to 0x06FF	Irdeto
0x0700 to 0x07FF	Jerrold/GI
0x0800 to 0x08FF	Matra Communication
0x0900 to 0x09FF	News Datacom
0x0A00 to 0x0AFF	Nokia
0x0B00 to 0x0BFF	Norwegian Telekom
0x0C00 to 0x0CFF	NTL
0x0D00 to 0x0DFF	Philips
0x0E00 to 0x0EFF	Scientific Atlanta
0x0F00 to 0x0FFF	Sony
0x1000 to 0x10FF	Tandberg Television
0x1100 to 0x11FF	Thomson
0x1200 to 0x12FF	TV/Com
0x1300 to 0x13FF	HPT - Croatian Post and Telecommunications
0x1400 to 0x14FF	HRT - Croatian Radio and Television
0x1500 to 0x15FF	IBM
0x1600 to 0x16FF	Nera
0x1700 to 0x17FF	BetaTechnik

4.4 Country code values

The values given in table 4 are to be used to identify groups of countries or parts of countries within the application area of ETS 300 468 [1]. These are supplementary to ISO 3166.

Table 4: Country code values

Code	Grouping
900	Scandinavia
901	North America (Canada, Carribean, Mexico, United States of America)

4.5 Private data specifier values

The values given in table 5 are to be used to identify private SI by insertion in the field private_data_specifier.

Table 5: Private data specifier values

Private data specifier values	Organisation specifying private SI codes
0x00000000	Reserved
0x00000001	SES
0x00000002	BSkyB 1
0x00000003	BSkyB 2
0x00000004	BSkyB 3
0x000000BE	BetaTechnik
0x00006000	News Datacom
0x00006001	NDC 1
0x00006002	NDC 2
0x00006003	NDC 3
0x00006004	NDC 4
0x00006005	NDC 5
0x00006006	NDC 6
0x00362275	Irdeto
0x004E544C	NTL
0x00532D41	Scientific Atlanta
0x44414E59	News Datacom (IL) 1
0x46524549	News Datacom (IL) 1
0x53415053	Scientific Atlanta