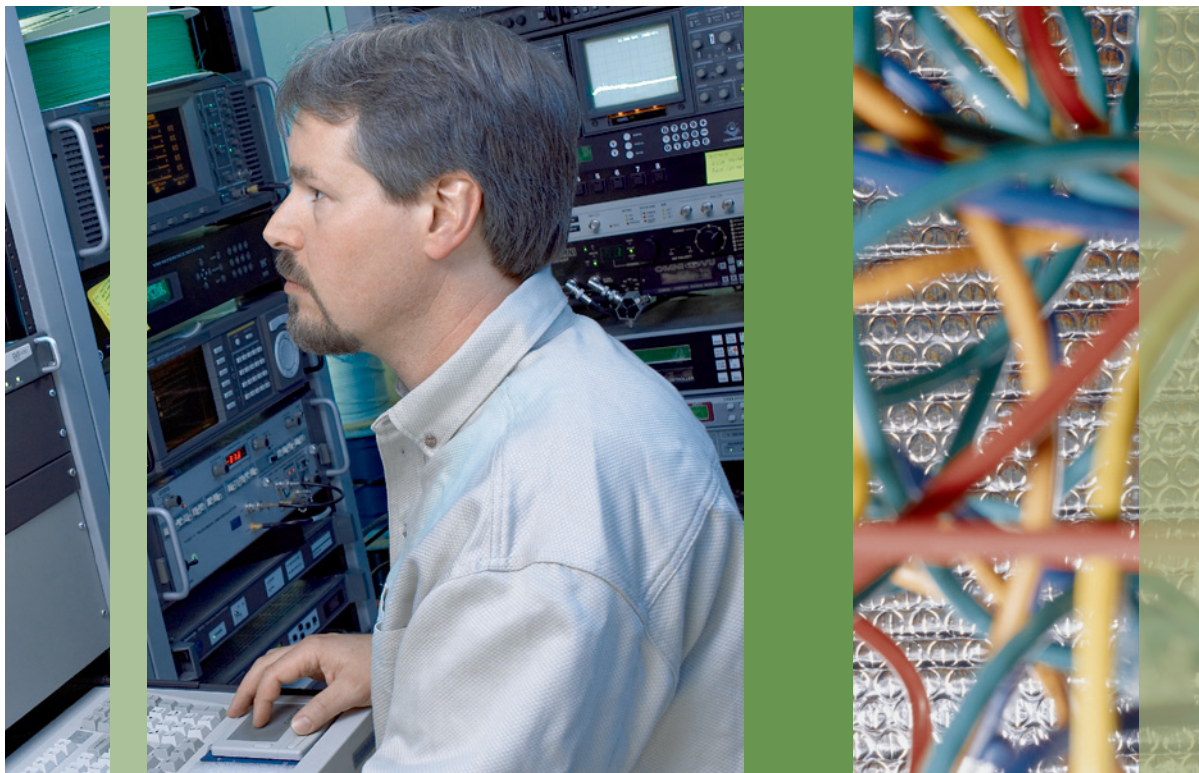


# MPEG-2 Transport Stream Poster

Includes ATSC Program and System Information Protocol (PSIP) Tables



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**\* If the European phone number above is not accessible, please call +41 52 675 3777**

Contact List Updated 10 February 2011

**For Further Information**

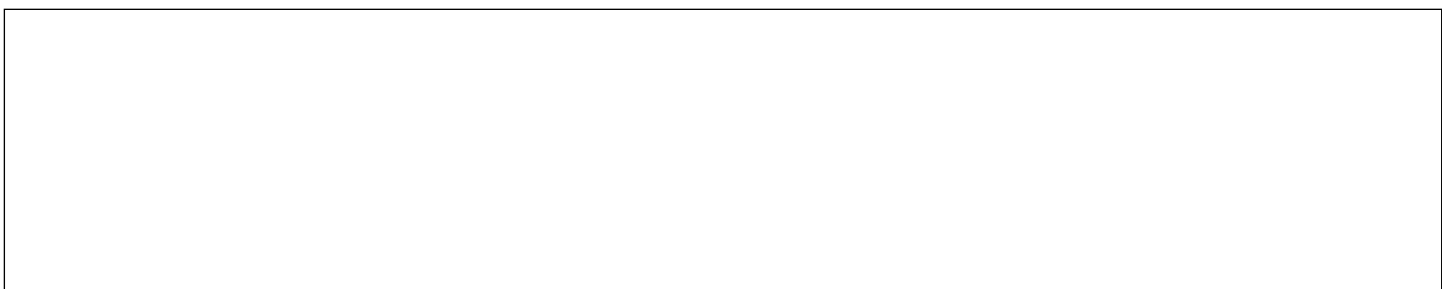
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03/12 EA/FCA-POD

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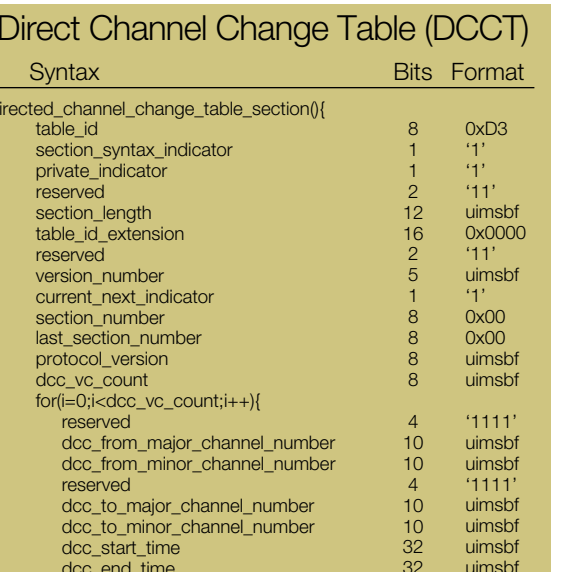
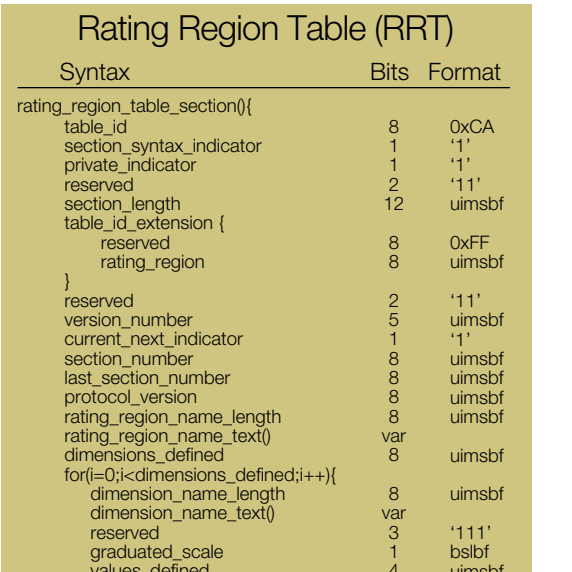
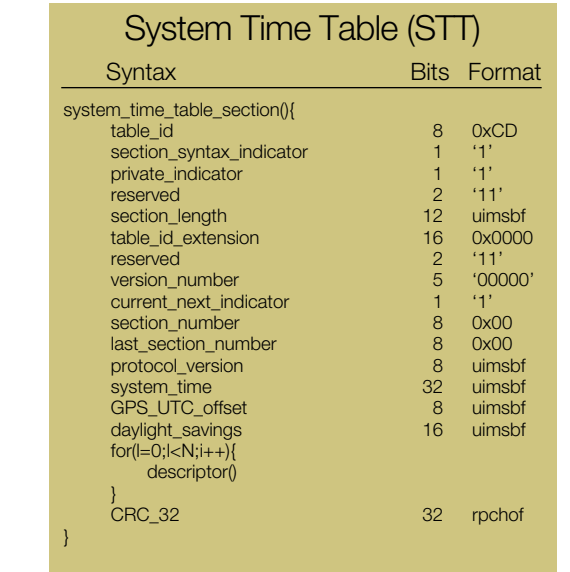
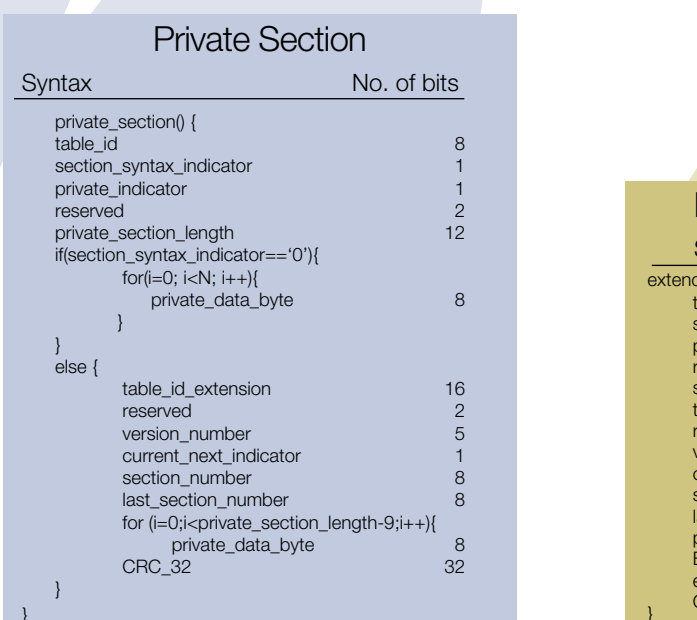
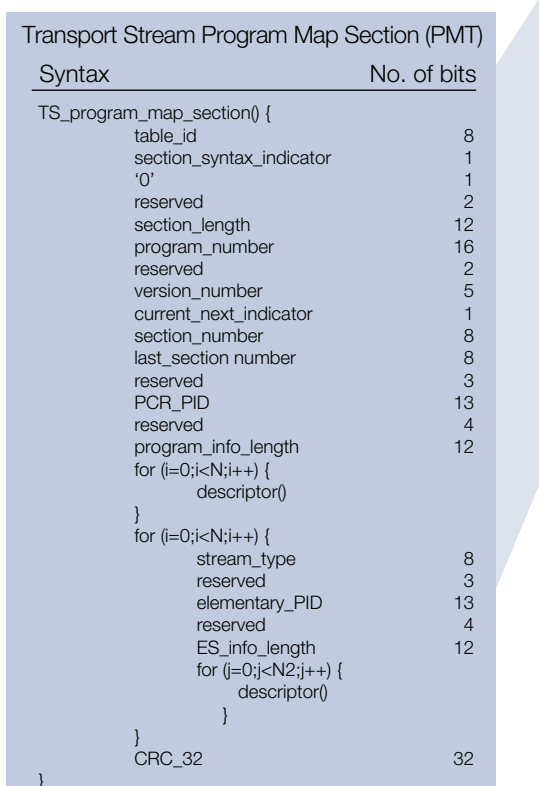
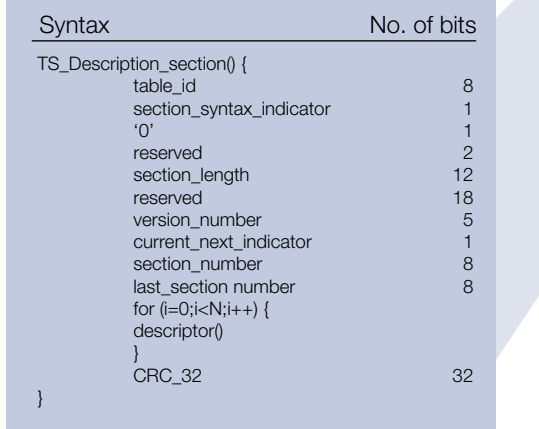
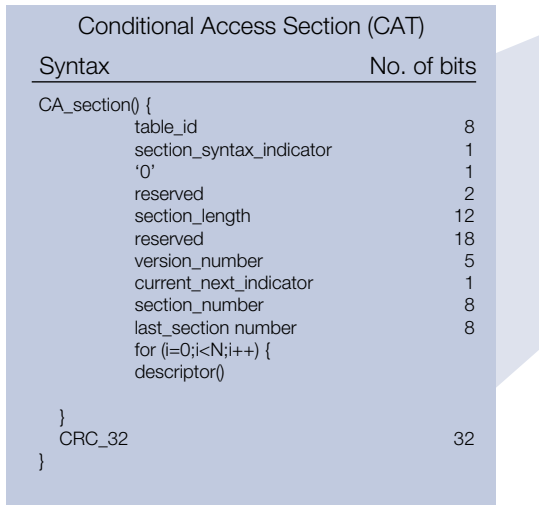
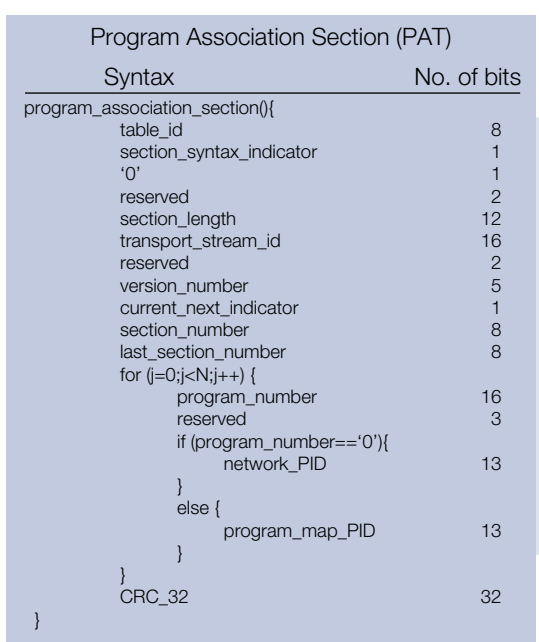
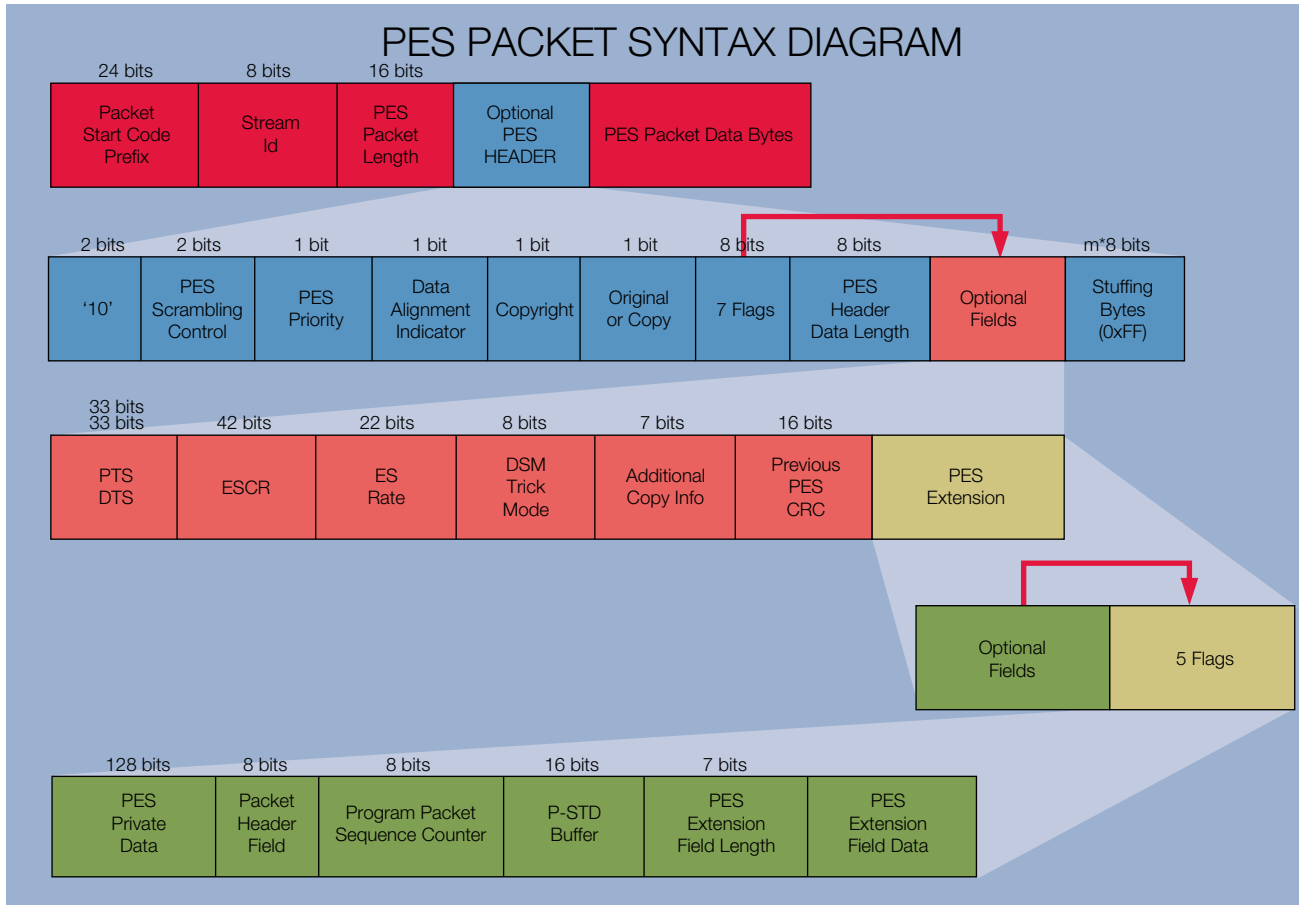
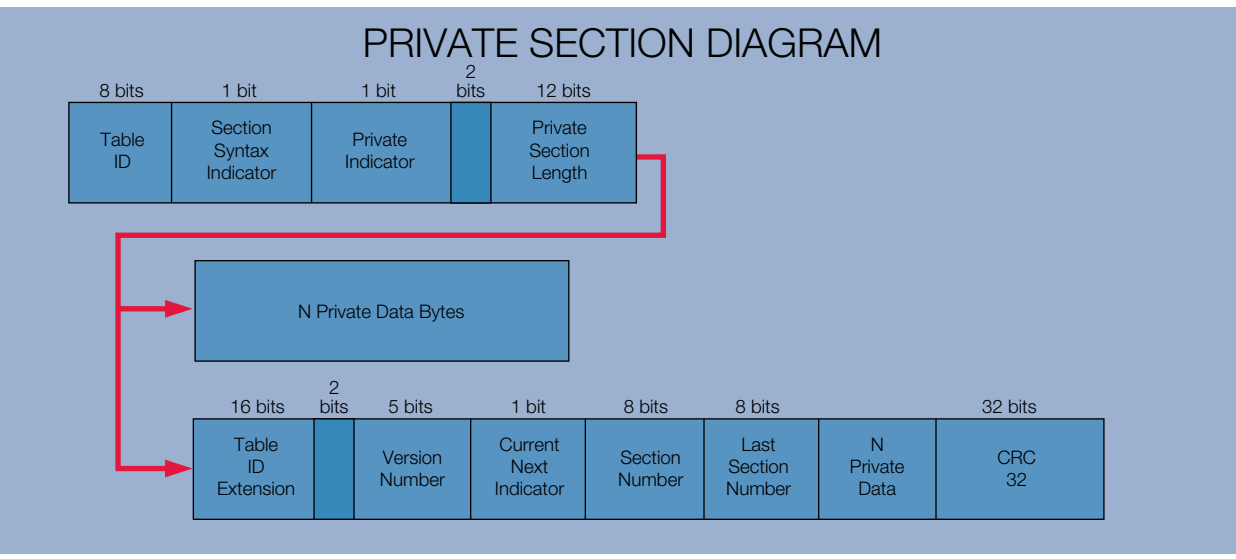
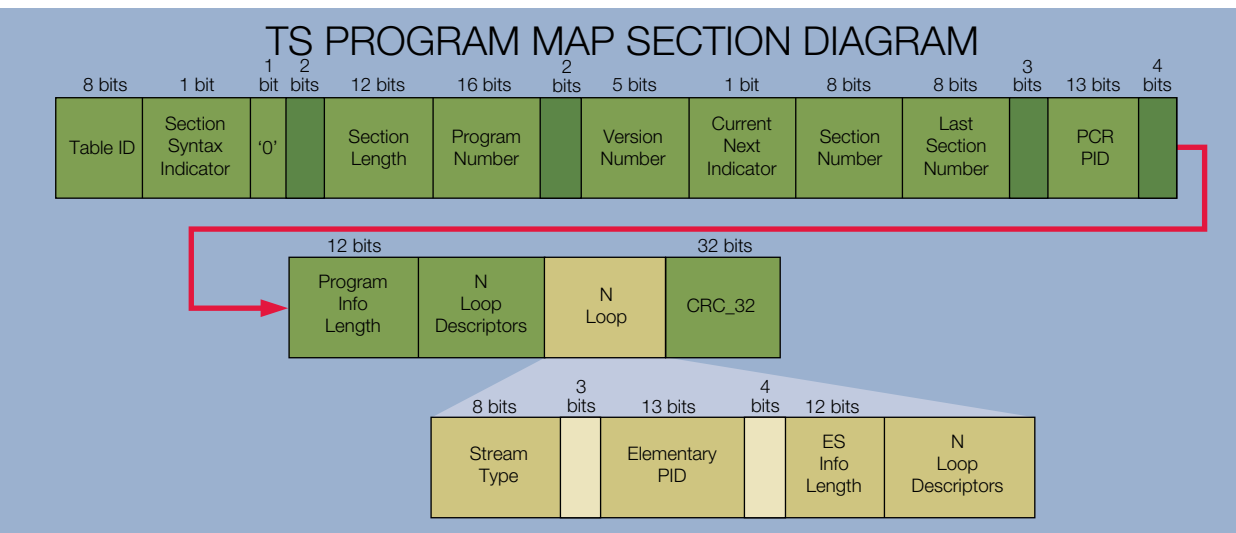
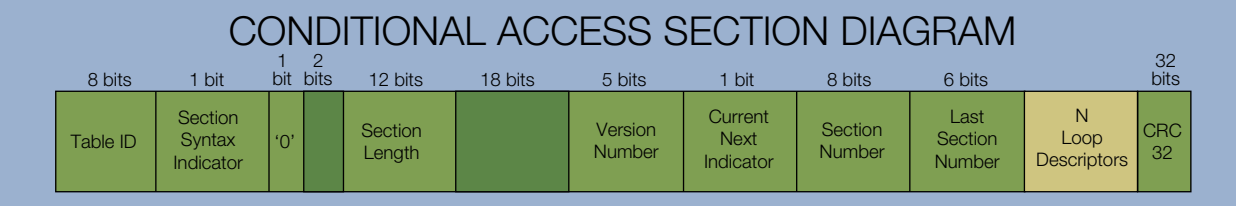
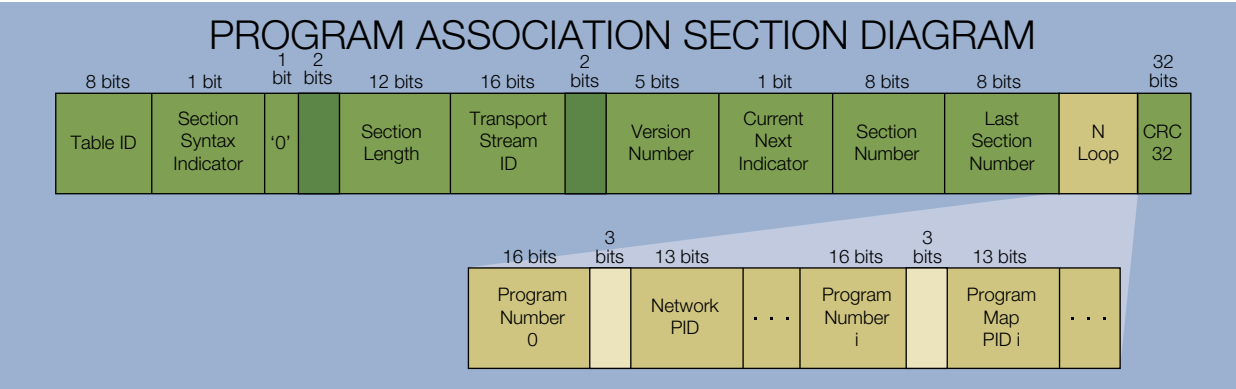
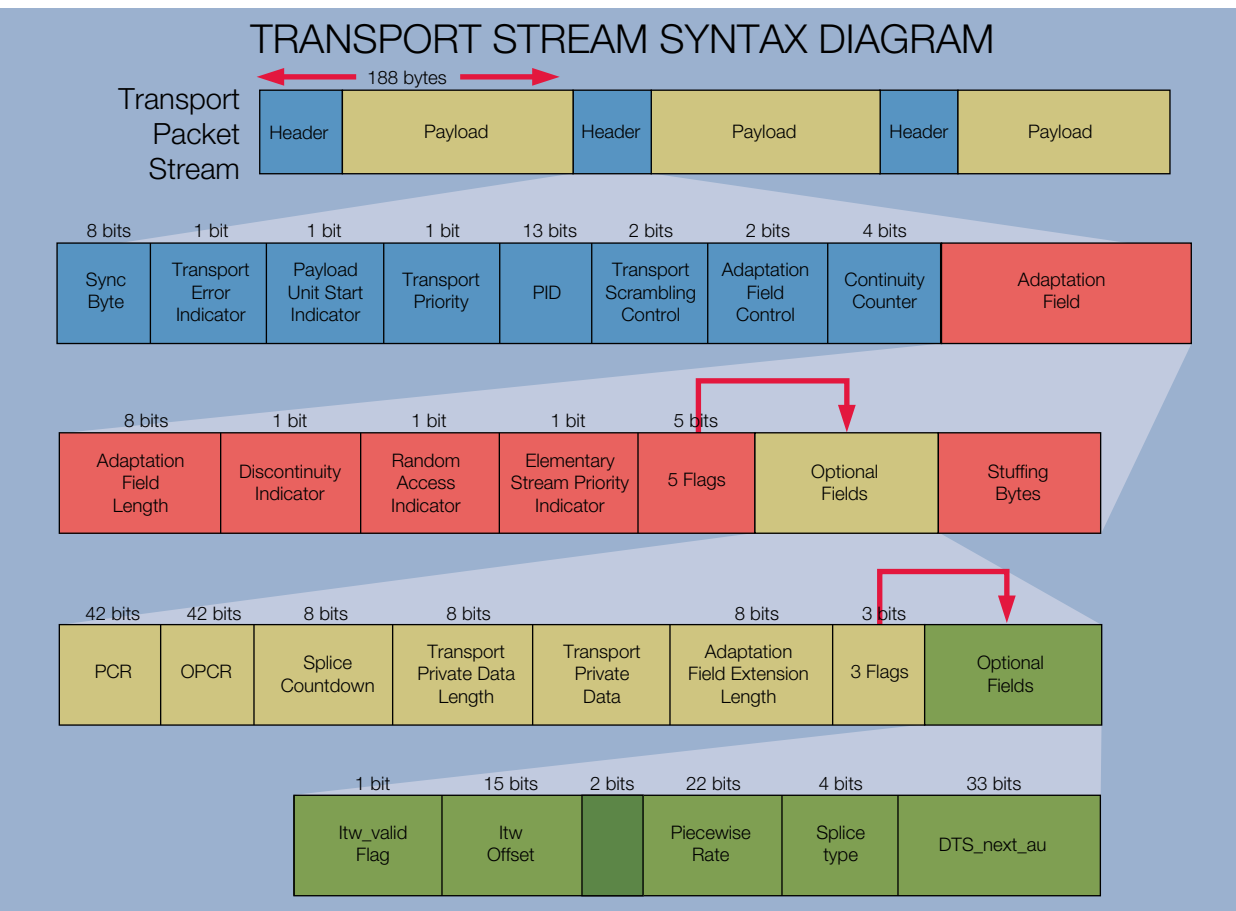
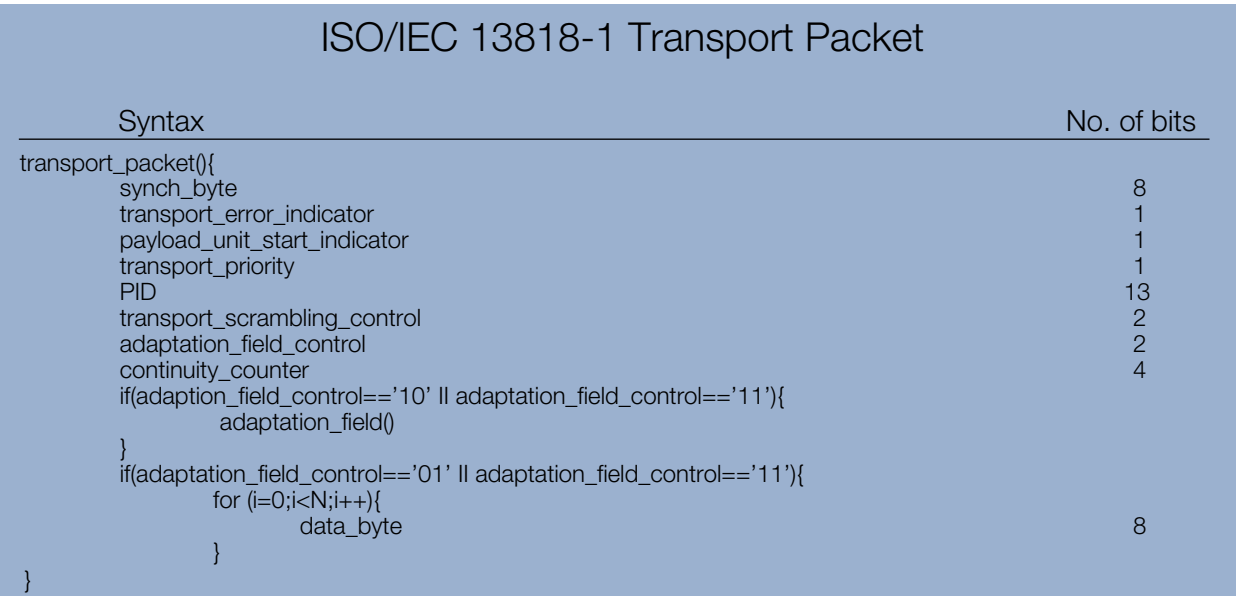


# MPEG-2 Transport Stream Poster

ISO/IEC 13818-1 International Standard

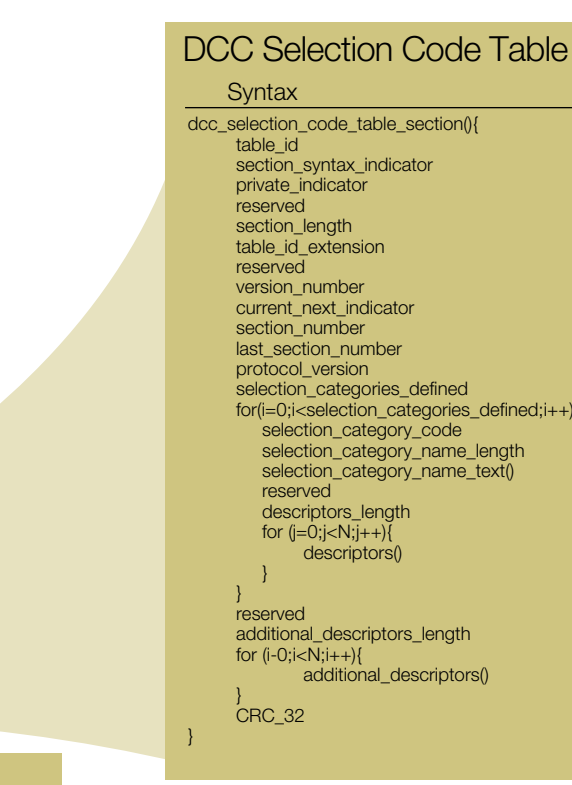
# Advanced Television Systems Committee (ATSC)

Program and System Information Protocol (PSIP) for Terrestrial Broadcast and Cable (Doc. A/65 and A/69)



### ISO/IEC 13818-2 Video Levels and Profiles

Profile	Simple	Main	Profile	SNR	Spatial	High
High	4.2:0 1920x1152 80 Mbps LP.B	4.2:2 1920x1088 300 Mbps LP.B	4.2:2 1440x1152 80 Mbps LP.B	4.2:0, 4.2:2 1440x1152 100 Mbps LP.B		
High-1440	4.2:0 1440x1152 80 Mbps LP.B	4.2:2 720x768 50 Mbps LP.B	4.2:2 720x768 15 Mbps LP.B	4.2:0, 4.2:2 720x768 20 Mbps LP.B		
Main	4.2:0 720x768 15 Mbps LP	4.2:0 352x288 4 Mbps LP.B	4.2:2 352x288 4 Mbps LP.B			
Low						

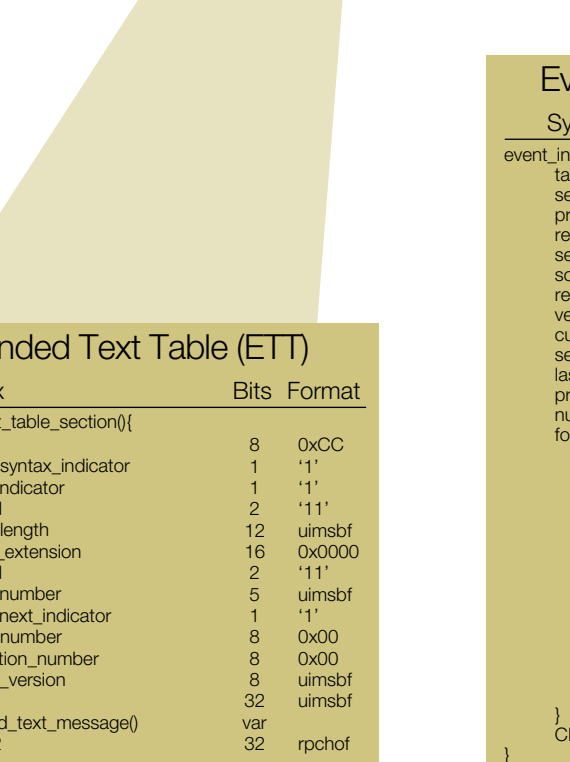
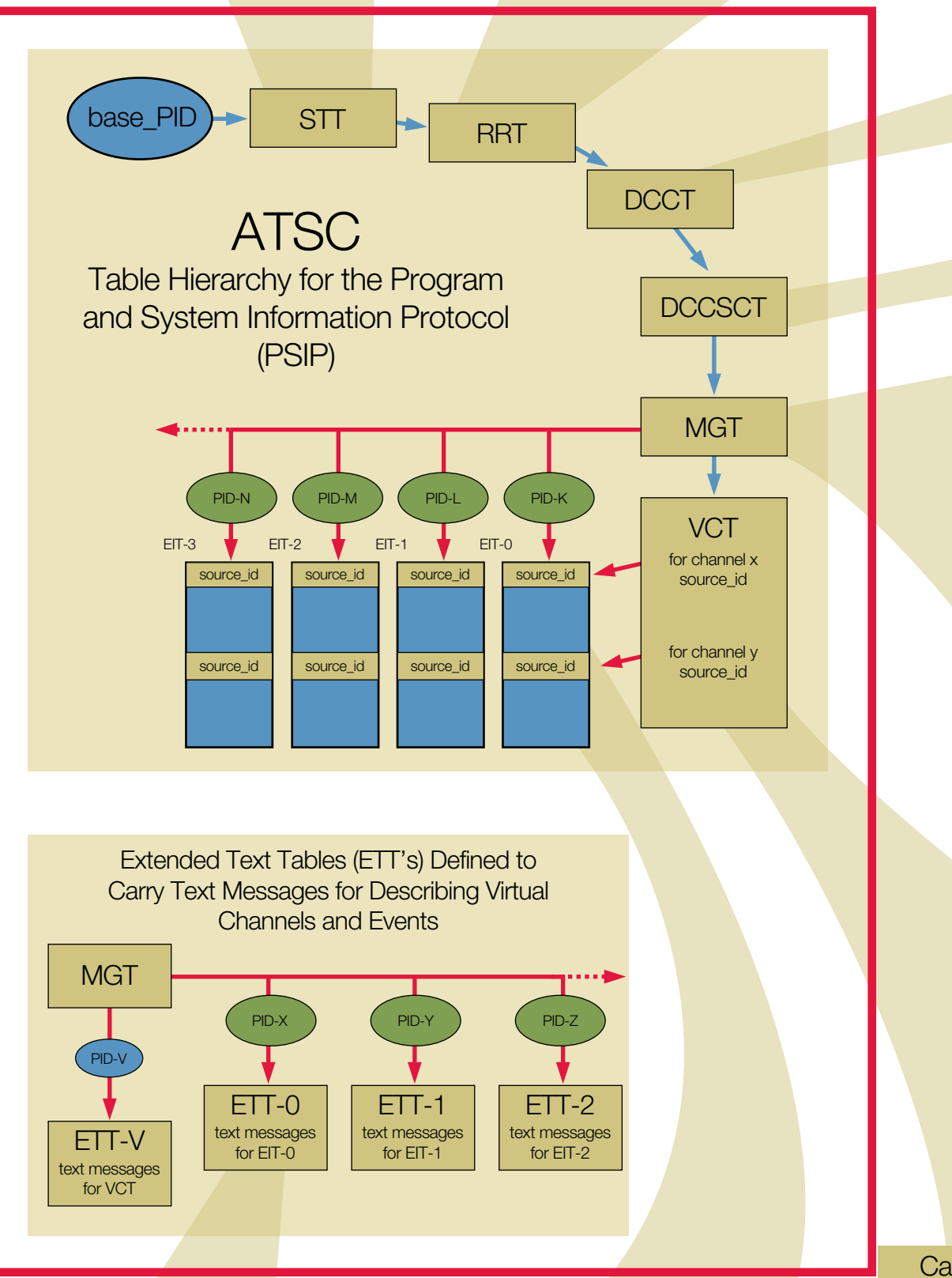
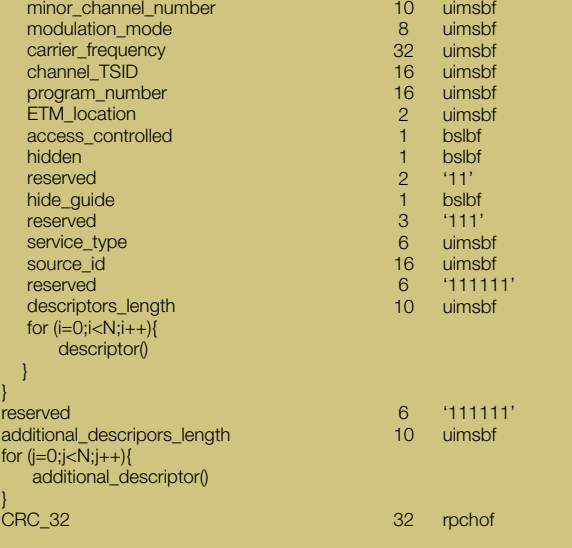
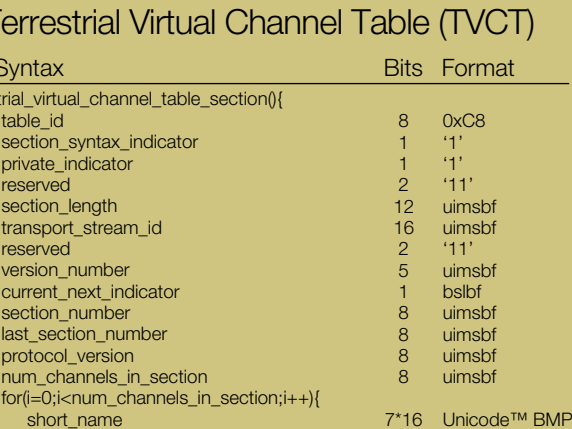


### Table Timing Intervals

Table Type	PID	Max Interval
PAT	0x0	100 ms
TSDT	0x0	100 ms
MGT	0x1FFB	150 ms
TVCT	0x1FFB	400 ms
CVCT	0x1FFB	400 ms
STT	0x1FFB	1000 ms
RRT	0x1FFB	6000 ms
PMT	ALL	400 ms
ETD	ALL	500 ms
ETI	ALL	3000 ms
ETI-3	ALL	6000 ms

### Stream Type Assignments

Value	Description
0x00	ITU-T ISO/IEC reserved
0x01-0x7F	As specified in Table 2.29 (Stream type assignments) of ISO/IEC 13818-1
0x80	Used in other systems
0x81	ATSC A/53 audio
0x82-0x84	Used in other systems
0x85	LPID (ATSC A/57 Program/Episode/Version Identifier)
0x86-0x8F	Reserved
0x90-0xFF	User Private



### Abbreviations

ATSC	Advanced Television Systems Committee
BMP	Basic Multilingual Plane
bsf	bit serial, left bit first
CAT	Conditional Access Table
CRC	Cyclic Redundancy Check
CVCT	Cable Virtual Channel Table
DTV	Digital Television
ET	Event Information Table
EPG	Electronic Program Guide
EMM	Entertainment Management Message
ETM	Extended Text Message
ETT	Extended Text Table
GPS	Global Positioning System
MGT	Master Guide Table
MPEA	Motion Picture Association of America
MPEG	Moving Picture Experts Group
NT	Network Information Table
NVOD	Near Video On Demand
OOB	Out of Band
PAT	Program Association Table
PCR	Program Clock Reference
PES	Packaged Elementary Stream
PID	Packet Identifier
PMT	Program Map Table
PIPC	Program and System Information Protocol
PTC	Physical Transmission Channel
SCE	Society of Cable Telecommunications Engineers
SI	System Information
SMPT310M	Synchronous Serial Interface for MPEG-2 transport streams at 10, 30/65 and 38, 78/837 Mbps
STD	System Target Decoder
STT	System Time Table
rpf	remainder polynomial coefficients, highest order first
RRT	Rating Region Table
TS	Transport Stream
TSDT	Transport Stream Description Table
TVCT	Terrestrial Virtual Channel Table
unicode	Unicode™
UTC	Coordinated Universal Time
umf	unsigned integer, most significant bit first
VCT	Virtual Channel Table. Used in reference to other TVCT or CVCT

### Table ID Ranges and Values

Table ID Value (hex)	Tables	PID
0x00	ISO/IEC 13818-1 Sections: PROGRAM ASSOCIATION TABLE (PAT)	0
0x01	CONDITIONAL ACCESS TABLE (CAT)	1
0x02	TS PROGRAM MAP TABLE (PMT)	per PAT
0x03-0x0F	ISO Reserved	
0x10-0x1F	User Private Sections: (User Private)	
0x20-0x2F	Other Documents: (ATSC coordinated values which are defined in other standards)	
0x30-0x3F	PSIP Tables: MASTER GUIDE TABLE (MGT)	0x1FFB
0x40-0x4F	TERRESTRIAL VIRTUAL CHANNEL TABLE (TVCT)	0x1FFB
0x50-0x5F	CABLE VIRTUAL CHANNEL TABLE (CVCT)	0x1FFB
0x60-0x6F	RATING REGION TABLE (RRT)	0x1FFB
0x70-0x7F	EVENT INFORMATION TABLE (EIT)	per MGT
0x80-0x8F	EXTENDED TEXT TABLE (ETT)	per MGT
0x90-0x9F	SYSTEM TIME TABLE (STT)	0x1FFB
0xA0-0xAF	ATSC coordinated values which are defined in other standards	
0xB0-0xBF	Reserved for future ATSC use	
0xC0-0xC7	DIRECTED CHANNEL CHANGE TABLE (DCCT)	0x1FFB
0xC8-0xCF	DIRECTED CHANNEL CHANGE SELECTION CODE TABLE (DCCSCT)	0x1FFB
0xD0-0xD7	ATSC coordinated values which are defined in other standards	
0xD8-0xDF	Reserved for future ATSC use	
0xE0-0xEF	Used in other systems	
0xF0-0xFF	Reserved for future ATSC use	

Tables defined in this PSP Standard, and any created as user extensions to it are considered "private" with respect to ISO/IEC 13818-1. Table types 0x40 through 0xBF are user defined (outside the scope of this PSP Standard).