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(72) 1 6 1205

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(54) 가

d Caption; DTVCC) 가 (Multiple Audio) 가 , (Rating) (Digital TV Close
(New Version) (PMT) (PMT) 가 ,
PSIP)/ (Program Specific Information; PSI) (Program and system information protocol; 가
(User Interface)

3

1 (Program Map Table; PMT) (Section Syntax)

2 (Advanced Television System Committee; ATSC)
(Descriptors)

3 가 .

4 가 .

*** ***

31: 32:

33: 34:
 35: PSIP/PSI 36:
 37: PSI

(Digital Television) 가
 가
 (Rating) (Digital TV Closed Caption; DTVC) 가
 C) (Multiple Audio) 가 , A 10 11
 , 11 1 가 . 가 . , 1
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| | 19 | | , |
| | 15 | | 1, 2, |

1 , 19 가 가 ,
 가 가 ,
 15 가 가 ,
 -1, 2 가 가,
 가 가 , 1 ,
 가 가
 가 (Program and system informatio
 n protocol; PSIP) (Event Information Tables; EITs) (Event;
) (Descriptor) (EIT-0) (EIT-0)
 (Content Advisory Descriptor)
 (Caption Service Descriptor)
 vice Location Descriptor) TVCT 가 (Virtual Channel) (Ser
 (current Event) , 가 (Current Virtual channel) (EIT-0)
 iptor) (Parsing) 가 (version change) (Descr
 가 (version change)
 가 가 , ,
 (Rocking;) , , 가
 가 , -1(default) , 가
 , -1, 2,
 가 -1, -2가 (dialog), (Impact)
 -2가 가

(Banner) 가

가

(Multiple Audio) 가 (Rating) (Digital TV Closed Caption; DTVCC) 가

(Program Association Table; PAT) (Program and System Information Protocol; PSIP) (Program Map Table) 가

가 (PMT) TP 가 (New Versio

n) (PMT) (Program and System Information Protocol)/ 가

(Program Specific Information) (User Interface) 가 (Rating) (Digital TV Clo

sed Caption; DTVCC) (Multiple Audio)) 가 (Rating) (Digital TV Clo

1 (Program Map Table; PMT) (Section Syntax) (document)

ISO/IEC 13818-1 2-28 (PMT) (Section Synt

ax) 2 (Advanced Television System Committee; ATSC) (Descriptors)

tual Channel) (PMT) (section field) , 2 for loop (Vir

가 (Virtual Channel) (Elementary Stream; ES) (Define)

(PMT) (1 Video ES) (2 Audio ES)

descriptor loop) content_advisory_descriptor가 1 2-28 (d

(PMT)

1) (Elementary Stream; ES) 가 3 (1 Video + 2 Audio) 4 (1 Video + 3 Audio E (component_na

S) (Audio ES)

2) (caption_service_descriptor)가

가

3) 19 15 (content_advisory_descriptor) (PMT) (section) 가

3 (1~3) (PMT) (version_number) (PMT) (Version) 가 TP Chip

(PMT) (parsing) (New Version PMT) (User Interface)

가 (PMT Version Monitoring) 3

(Program Banner Window)

3 (PMT Version Monitoring) , 가 (Program Banner Window)

3 (31) , 가 (New Version) (PMT) (Program Map Table; PMT) (Packet Identification; PID), (table_id), (program_number), (version_number) (PID) (Transport) (32) , (33) , (34) , (New Version) (PMT) (Program and system information protocol; PSIP)/ (Program Specific Information; PSI) (35) , (PMT) (Program Specific Information) (37) , 가 가 (User Interface) (36) 가

4 (PMT Version Monitoring) , 가 (Program Banner Window) (31) 가 (Advanced Television System Committee; ATSC) (Program and system information protocol; PSIP) 가 (Virtual Channel Table; VCT), (Program Association Table; PAT) (Program Map Table; PMT) (parsing) 가 (VCT) (service_location_descriptor) (parsing) (Packet Identification; PID) (32) (Stream) (Program Association Table; PAT) (Program Map Table; PMT) (Program Specific Information; PSI) (37) (Stream) 가 (32) (Stream) 가 (PSIP)/ (PSI) (35) (Program and system information protocol; PSIP) (Event Information Table-0; EIT-0) (parsing) content_advisory_descriptor caption_service_descriptor 가 (S42). (PSIP)/ (PSI) (35) / 가 가 (Program Map Table; PMT) (Packet Identification; PID), (table_id), (program_number) (version_number) (32) (PID) (PSI) (37) (New Version) (PMT) (S43). (32) (Register) (Program and system information protocol; PSIP)/ (PMT) (Program Specific Information; PSI) (35) (Task) (New Version PMT) (Queue) (Pending) (Program and system information protocol; PSIP)/ (35) 가 (32) (New version_number) (PMT) (S44). (Program and system information protocol; PSIP)/ (Program Specific Information; PSI) (35) (PMT Parser)() () () (S45), (Program Specific Information; PSI) (Data Base)(35) (S46).

(PSI) (37)가 (New version PMT)
 (Program Specific Information; PSI) (35) (Program and system information protocol; PSIP)/ (P
 SIP Main Task) (PSIP Main Task)
 (Application User Interface Task) () 가
 (UI Task) (PSI DB)(37)
 (Application Interface; API) (access) , (S49). , 가
 (PSI DB)(37) 가 가 가
 , 가 가 (UI
 Task) (S48). ,
 (PMT) (PMT)
 (version_number) , (PID), (table_id), (program_number),
 (32) (PID)

가
 (PMT Version Monitoring)
 가 가

가 가

(57)

- 1.
- 2.
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- 12.

(Program Association Table) (Program and System Information Protocol)
 (Program Map Table)

가 가

- 12 13. , 가 가
- 12 14. , 가 가
가
- 12 15. , 가 (Rating) (Digital TV Closed Caption; D
TVCC) (Multiple Audio) 가
- 12 16. , (Version)
가
- 12 17. , (Pa
cket Identification) 가
- 12 18. , 가 (descriptors)
(Content Advisory Descriptor, Caption Service Descriptor, Component Name Descriptor)
가
- 12 19. , (Advanced Televisio
n System Committee) 가
- 20 20. (New Version) (Program Map Table)
가
(Program and system information protocol; PSIP)/
(Program Specific Information; PSI) 가
(User Interface)
가
- 20 21. , (Packet Identification), (table_id), (progra
m_number), (version_number) 가
- 20 22. , (Program Specific
Information) 가
- 20 23. , 가
(New Version) 가
- 20 24. , (User Interface) 가 가 가
가
- 20 25. , (User Interface)
가
- 20 26. , 가
가
- 20 27. , 가 가

- 20 28. 가 (Rating) (Digital TV Closed Caption; D
TVCC) (Multiple Audio) 가
- 20 29. / (Program Association Table)
(Program Specific Information)
- 29 30. 가 (Version)
- 29 31. 가 (Pack
et Identification) 가
- 29 32. / (descriptors)(Content Advisory Descriptor, Caption Service Descriptor, Component
Name Descriptor) 가
- 29 33. (User Interface) 가
- 29 34. 가 (Advanced Televisio
n System Committee)

| [Table.2-28] Transport Stream Program Map Section | | | |
|---|----|--------|--|
| TS_program_map_section() { | | | |
| table_id | 8 | uimsbf | |
| section_syntax_indicator | 1 | bslbf | |
| '0' | 1 | bslbf | |
| reserved | 2 | bslbf | |
| section_length | 12 | uimsbf | |
| program_number | 16 | uimsbf | |
| reserved | 2 | bslbf | |
| version_number | 5 | uimsbf | |
| current_next_indicator | 1 | bslbf | |
| section_number | 8 | uimsbf | |
| last_section_number | 8 | uimsbf | |
| reserved | 3 | bslbf | |
| PCR_PID | 13 | uimsbf | |
| reserved | 4 | bslbf | |
| program_info_length | 12 | uimsbf | |
| for (i = 0; i < N; i++) { | | | |
| descriptor() | | | |
| } | | | |
| for (i = 0; i < N1; i++) { | | | |
| stream_type | 8 | uimsbf | |
| reserved | 3 | bslbf | |
| elementary_PID | 13 | uimsbf | |
| reserved | 4 | bslbf | |
| ES_info_length | 12 | uimsbf | |
| for (i = 0; i < N1; i++) { | | | |
| descriptor() | | | |
| } | | | |
| } | | | |
| CRC_32 | 32 | | |
| } | | | |

| Descriptor Name | Descriptor tag | Terrestrial | | | | Cable | | | |
|----------------------------------|----------------|-------------|-----|-----|-----|-------|-----|-----|-----|
| | | PMT | MGT | VCT | EIT | PMT | MGT | VCT | EIT |
| Stuffing descriptor | 0x80 | * | * | * | * | * | * | * | * |
| AC-3 audio descriptor | 0x81 | M | | | M | M | | | O |
| Caption service descriptor | 0x86 | M | | | M | M | | | O |
| Content advisory Descriptor | 0x87 | M | | | M | M | | | O |
| Extended channel name descriptor | 0xA0 | | | M | | | | M | |
| Service location descriptor | 0xA1 | | | S | | | | M | |
| Time-shifted service descriptor | 0xA2 | | | M | | | | M | |
| Component name descriptor | 0xA3 | M | | | | M | | | |

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