Technical Reference

Tektronix

MTM400
MPEG Transport Stream Monitor

071-1560-01

This document applies to firmware versions 1.2 to 2.0.6.

Warning
The servicing instructions are for use by qualified personnel only. To avoid personal injury, do not perform any servicing unless you are qualified to do so. Refer to all safety summaries prior to performing service.

www.tektronix.com

Contacting Tektronix

Tektronix, Inc.
14200 SW Karl Braun Drive
P.O. Box 500
Beaverton, OR 97077
USA

For product information, sales, service, and technical support:

- In North America, call 1-800-833-9200.
- Worldwide, visit www.tektronix.com to find contacts in your area.

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General Safety Summary

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

To avoid potential hazards, use this product only as specified.

Only qualified personnel should perform service procedures.

To Avoid Fire or Personal Injury

Use Proper Power Cord. Use only the power cord specified for this product and certified for the country of use.

Ground the Product. This product is indirectly grounded through the grounding conductor of the mainframe power cord. To avoid electric shock, the grounding conductor must be connected to earth ground. Before making connections to the input or output terminals of the product, ensure that the product is properly grounded.

Ground Equipment Connected to the Product. Ensure that any equipment connected to this product is grounded and at the same potential.

Observe All Terminal Ratings. To avoid fire or shock hazard, observe all ratings and markings on the product. Consult the product manual for further ratings information before making connections to the product.

Do Not Operate Without Covers. Do not operate this product with covers or panels removed.

Use Proper Fuse. Use only the fuse type and rating specified for this product.

Avoid Exposed Circuitry. Do not touch exposed connections and components when power is present.

Do Not Operate With Suspected Failures. If you suspect there is damage to this product, have it inspected by qualified service personnel.

Do Not Operate in Wet/Damp Conditions.

Do Not Operate in an Explosive Atmosphere.

Keep Product Surfaces Clean and Dry.

Provide Proper Ventilation. Refer to the manual's installation instructions for details on installing the product so it has proper ventilation.

Symbols and Terms

Terms in this Manual. These terms may appear in this manual:

WARNING. *Warning statements identify conditions or practices that could result in injury or loss of life.*

CAUTION. *Caution statements identify conditions or practices that could result in damage to this product or other property.*

Terms on the Product. These terms may appear on the product:

DANGER indicates an injury hazard immediately accessible as you read the marking.

WARNING indicates an injury hazard not immediately accessible as you read the marking.

CAUTION indicates a hazard to property including the product.

Symbols on the Product. The following symbols may appear on the product:

CAUTION
Refer to Manual

Protective Ground
(Earth) Terminal

Service Safety Summary

Only qualified personnel should perform service procedures. Read this *Service Safety Summary* and the *General Safety Summary* before performing any service procedures.

Do Not Service Alone. Do not perform internal service or adjustments of this product unless another person capable of rendering first aid and resuscitation is present.

Disconnect Power. To avoid electric shock, switch off the instrument power, then disconnect the power cord from the mains power.

Use Care When Servicing With Power On. Dangerous voltages or currents may exist in this product. Disconnect power, remove battery (if applicable), and disconnect test leads before removing protective panels, soldering, or replacing components.

To avoid electric shock, do not touch exposed connections.

Use only Teltronix approved components when servicing the unit.

Preface

This manual contains the following information about the MTM400 MPEG Transport Stream Monitor:

- *Specifications* lists the electrical, physical and environmental specifications of the MTM400 monitor.
- *Test Parameters* describes the tests performed by the MTM400 monitor; it also describes the associated parameters.
- *Configuration File* describes the structure and composition of the MTM400 configuration file.
- *Hardware Maintenance* describes cleaning the unit and the installation of interface boards and batteries.

Related Material

Additional documentation, such as Read Me files, may be included on the installation disks.

The *MTM400 MPEG Transport Stream Monitor User Manual* describes the functions and use of the instrument. This manual is available in English and Japanese languages.

The *MTM400 MPEG Transport Stream Monitor Programmer Manual* specifies the remote control and status monitoring interfaces available to a management application. This English language reference document is available only from the Tektronix Web site (www.tektronix.com).

The following URLs access the Web sites for the standards organizations listed (the URLs listed were valid at the time of writing):

- MPEG−2 standards (International Organization for Standards)
  http://www.iso.ch/
- DVB standards (European Technical Standards Institute)
  http://www.etsi.org/
- ATSC standards (Advanced Television Systems Committee)
  http://www.atsc.org/
- ISDB/ARIB standards (Association of Radio Industries and Businesses)
  http://www.arib.or.jp/english/

Manual Conventions

Naming conventions for the interface elements are based on standard Windows naming conventions. Naming conventions for MPEG-2, ATSC, and DVB structures follow the conventions derived from the standards documents found at the Web sites listed on page ix. In addition, the following formatting conventions apply to this manual:

- **Bold** text refers to specific interface elements that you are instructed to select, click, or clear.
  Example: Select **Settings** from the Configuration menu.
- Mono-spaced text can indicate the following:
  - Text you enter from a keyboard
    Example: Enter the network identity (`http://TSMonitor01`)
  - Characters you press on your keyboard
    Example: Press `CTRL+C` to copy the selected text.
  - Paths to components on your hard drive
    Example: The program files are installed at the following location:
    `C:\Program Files\Tektronix\`

Specifications

Specifications

This section lists the electrical, environmental, and physical specifications of the MTM400 system. All specifications are guaranteed unless labeled typical. Typical specifications are provided for your convenience and are not guaranteed. Electrical characteristics apply to test systems operating within the environmental conditions.

Electrical, Hardware, and Signal Specifications

Table 1–1: Remote user interface platform characteristics

Characteristic	Description
Minimum Specification	500 MHz Intel Pentium Processor
Operating System	Any Microsoft Windows operating system
Disk Space	30 MB free disk space
Ethernet	10/100-base T
Installed Software	Microsoft Internet Explorer, Version 5.0 minimum; Microsoft Java Virtual Machine installed, Version 5.0 minimum
RAM	256 MB
CD-ROM Drive	8x
Display	1024 x 768 pixel video monitor with 16 available colors

Table 1–2: TS processor – system timing clock

Characteristic	Description
PCR Offset Measurement Accuracy	± 2.0 ppm
System Timing Clock Drift	± 1.0 ppm per year (maximum)

Table 1–3: TS processor – ASI interface

Characteristic	Description
ASI Input	
Connector	BNC
Transport Stream Rate	155 Mbps maximum, 250 kbps minimum
Data Format	Accepts both Burst and Packet mode ASI format
Signal Amplitude	2.0 V_{p-p} maximum; 200 mV_{p-p} minimum
Termination	75 ohms nominal, transformer coupled
Return Loss	10 dB min, 5 MHz to 270 MHz
Link Rate	270 Mbaud $\pm$ 100 ppm
ASI Output	(The Output is an active loop through of the Input.)
Connector	BNC
Impedance	75 ohms nominal, transformer coupled
Transport Stream Rate	Same as the ASI input
Signal Amplitude	1.0 V_{p-p} max, 600 mV_{p-p} min, into a 75 ohm load
Return Loss	10 dB min at 270 MHz

Table 1–4: TS processor – SMPTE310M interface

Characteristic	Description
SMPTE310M Input	
Connector	BNC
Termination	75 ohms, transformer coupled
Data Format	Bi-phase coded. Compliant with SMPTE310M
Input Bit Rate	19,392,658.5 bps $\pm$ 2.8 ppm
Signal Amplitude	2.0 V_{p-p} maximum, 200 mV_{p-p} minimum
Return Loss	10 dB min at 20 MHz
SMPTE310M Output	(The Output is an active loop through of the Input.)
Connector	BNC
Output Bit Rate	Same as the SMPTE310M input
Signal Amplitude	600 mV min, 1.0 V max, into a 75 ohm load
Output Impedance	75 ohms, transformer coupled
Return Loss	10 dB min at 20 MHz

Table 1–5: I/O Port characteristics – QPSK (L-Band)

Characteristic	Description
Connectors	
Input	Type F (loop through to output)
Output	Type F
Input Frequency Range	950 MHz to 2150 MHz in 100 kHz steps
Input Signal Amplitude Range	–60 dBm min, –30 dBm max for a CBER of $<1e^{-6}$
Input Termination Impedance	75 ohm nominal
Input Return Loss	10 dB min, 950 MHz to 2150 MHz
Modulation Format	QPSK
Modulated Baud Rate	2 MBaud min, 45 MBaud max
Viterbi Values Supported	1/2, 2/3, 3/4, 5/6, 6/7, 7/8
Loop Through Output Amplitude	–6 dB to +3 dB
Loop Through Output Reverse Isolation	30 dB typical
LNB Support	
LNB Supply Voltage	selectable; 13.0 V $\pm$ 1.5 V or 18.0 V $\pm$ 1.5 V, with 100 ohms, 5 Watt resistor load
LNB Supply Maximum Current	200 mA maximum
LNB 22kHz Signaling Frequency	17.6 kHz min, 26.4 kHz max (22 kHz $\pm$ 20%)
LNB 22kHz Signaling Amplitude	600 mV_{p-p} with a 100 ohm load 400 mV minimum, 800 mV maximum

Table 1–6: I/O Port Characteristics – ITU-J83 Annex A QAM

Characteristic	Description
Input Frequency Range	51 MHz to 858 MHz, 62.5 kHz steps
Modulation Format	16 QAM, 64 QAM, 256 QAM (compliant with DVB-C ETS 300 421)
Modulation Baud Rate, QAM A	5.0 Mbaud/s minimum, 6.952 Mbaud/s maximum
Input Signal Level	–57 dBm (50 dBuV) to –27 dBm (80 dBuV), with a 16, 64, and 256 QAM input, providing five or less Transport Error Flags in 10 seconds, which corresponds to a post FEC rate of $1e^{-8}$
Modulation Error Ratio (with equalizer)	38 dB min, with a 64 QAM input and 256 QAM input
Receiver Bandwidth, QAM A	8 MHz nominal
Input Termination Impedance	75 ohm nominal
Input Return Loss	6 dB min, 10 dB typical, 51 MHz to 858 MHz
Loop Through Power Gain	1.5 dB to 4 dB typical, 51 MHz to 858 MHz

Table 1–6: I/O Port Characteristics – ITU-J83 Annex A QAM (Cont.)

Characteristic	Description
Loop Through Noise Figure	8 dB typical
Loop Through Output Return Loss	Greater than 10 dB typical

Table 1–7: I/O port characteristics – ITU-J83 Annex B QAM

Characteristic	Description
Input Frequency Range	88 MHz to 858 MHz, 62.5 kHz steps
Modulation Format	64 QAM, 256 QAM (compliant with ITU J-83 Annex B) Only interleaving modes with I,J = 128 (64,2; 32,4; 16,8; 8,16; 128,1) are supported. Modes described as I = 128, and J = 2,3,4,5,6,7,8 are not supported.
Modulation Baud Rate, QAM B	5.056941 Mbaud/s (64 QAM); 5.360537 Mbaud/s (256 QAM)
Input Signal Level	–57 dBm (50 dBuV) to –27 dBm(80 dBuV), with a 16, 64, and 256 QAM input, providing five or less Transport Error Flags in 11 seconds, which corresponds to a post FEC rate of $1e^{-8}$
Modulation Error Ratio (with equalizer)	37 dB min, with a 64 QAM input
Receiver Bandwidth, QAM B	6 MHz nominal
Input Termination Impedance	75 ohm nominal
Input Return Loss	6 dB min, 10 dB typ, 88 MHz to 858 MHz

Table 1–8: I/O port characteristics – ITU-J83 Annex C QAM

Characteristic	Description
Input Frequency Range	88 MHz to 858 MHz, 62.5 kHz steps
Modulation Format	16 QAM, 64 QAM, 256 QAM (compliant with ITU J-83 Annex C)
Modulation Baud Rate, QAM C	4.5 Mbaud/s min; 5.5 Mbaud/s max
Input Signal Level	–57 dBm (50 dBuV) to –27 dBm(80 dBuV), with a 16, 64, and 256 QAM input, providing a 5 or less Transport Error Flags in 12 seconds, which corresponds to a post FEC rate of $1e^{-8}$
Modulation Error Ratio (with equalizer)	38 dB typical, with a 64 QAM input
Receiver Bandwidth, QAM C	6 MHz nominal
Input Termination Impedance	75 ohm nominal
Input Return Loss	6 dB min, 10 dB typ, 88 MHz to 858 MHz

Table 1–9: Baseband board – ASI interface

Characteristic	Description
ASI Input	
Connector	BNC
Transport Stream Rate	155 Mbps maximum, 250 kbps minimum
Data Format	Accepts both Burst and Packet mode ASI format
Signal Amplitude	2.0 V_{p-p} maximum; 200 mV_{p-p} minimum
Termination	75 ohms nominal, transformer coupled
Return Loss	10 dB min, 5 MHz to 270 MHz
Link Rate	270 Mbaud $\pm$ 100 ppm
ASI Output (The Output is an active loop through of the Input.)	
Connector	BNC
Impedance	75 ohms nominal, transformer coupled
Transport Stream Rate	Same as the ASI input
Signal Amplitude	1.0 V_{p-p} max, 600 mV_{p-p} min, into a 75 ohm load
Return Loss	10 dB min at 270 MHz

Table 1–10: Baseband board – SMPTE310M interface

Characteristic	Description
SMPTE310M Input	
Connector	BNC
Termination	75 ohms, transformer coupled
Data Format	Bi-phase coded. Compliant with SMPTE310M
Input Bit Rate	19,392,658.5 bps $\pm$ 2.8 ppm
Signal Amplitude	2.0 V_{p-p} maximum, 200 mV_{p-p} minimum
Return Loss	10 dB min at 20 MHz
SMPTE310M Output (The Output is an active loop through of the Input.)	
Connector	BNC
Output Bit Rate	Same as the SMPTE310M input
Signal Amplitude	600 mV min, 1.0 V max, into a 75 ohm load
Output Impedance	75 ohms, transformer coupled
Return Loss	10 dB min at 20 MHz

Table 1–11: QPSK/8PSK interface board characteristics with QPSK input

Characteristic	Description
Input Frequency Range	950 MHz to 2150 MHz with 1 MHz step size
Input Signal Amplitude Range	–60 dBm to –30 dBm for a CBER of $<1e^{-6}$
Modulation Format	QPSK in accordance with ETSI EN 300 421
Modulated Baud Rate	1 MBaud min, 30 MBaud max
Viterbi Values Supported	1/2, 2/3, 3/4, 5/6, 6/7, 7/8
FEC	In accordance with ETSI EN 300 421
Turbo Viterbi Values Supported	1/2, 2/3, 3/4, 5/6, 7/8
Turbo FEC	Turbo code
Connector Style	F-style
Input Termination Impedance	75 ohm nominal
Input Return Loss	4 dB min, 950 MHz to 2050 MHz
LNB Supply Voltage	Selectable; 13.0 V $\pm$1.5 V or 18.0 V $\pm$1.5 V, with 100 ohm, 5 watt resistor load
LNB Supply Maximum Current	200 mA maximum
LNB 22 kHz Signaling Frequency	17.6 kHz min, 26.4 kHz max (22 kHz $\pm$20%)
LNB 22 kHz Signaling Amplitude	600 mV pk to pk with 100 ohm load
Ultimate Modulation Error Ratio (with equalizer)	26 dB with equalizer

Table 1–12: QPSK/8PSK interface board characteristics with 8PSK input

Characteristic	Description
Input Frequency Range	950 MHz to 2150 MHz with 1 MHz step size
Input Signal Amplitude Range	–60 dBm to –30 dBm for a CBER of $<1e^{-6}$
Modulation Format	QPSK in accordance with ETSI EN 300 421
Modulated Baud Rate	1 MBaud min, 30 MBaud max
Turbo Viterbi Values Supported	2/3, 3/4 (2.05), 3/4 (2.1), 5/6, 8/9
Turbo FEC	Turbo code
Connector Style	F-style
Input Termination Impedance	75 ohm nominal
Input Return Loss	4 dB min, 950 MHz to 2050 MHz
LNB Supply Voltage	Selectable; 13.0 V $\pm$ 1.5 V or 18.0 V $\pm$ 1.5 V, with 100 ohm, 5 watt resistor load
LNB Supply Maximum Current	200 mA maximum
LNB 22 kHz Signaling Frequency	17.6 kHz min, 26.4 kHz max (22 kHz $\pm$ 20%)
LNB 22 kHz Signaling Amplitude	600 mV pk to pk with 100 ohm load
Ultimate Modulation Error Ratio (with equalizer)	26 dB with equalizer

Table 1–13: 8PSK and QPSK measurements

Characteristic	Description
RF Lock	RF lock is indicated by LED and Status
Input Level (Signal Strength)	Range: –60 dBm to –30 dBm; Resolution: 1 dBm; Accuracy: ± 5 dBm
EVM (Error Vector Magnitude)	Display Range: ≤ 4.0% to ≥ 30.0% rms; Resolution: 0.1%; Accuracy: ± 20% of reading
MER (Modulation Error Ratio) with Equalizer	Display Range: 10 dB to 26 dB with equalizer; Resolution: 1 dB; Accuracy: ± 2 dB for range 10 dB to 20 dB
SNR (Signal to Noise Ration)	Display Range: 5 dB to 35 dB; Resolution: 1dB; Accuracy: ± 2 dB for range from 5 dB to 30 dB
Pre Reed Solomon (RS) BER (Bit Error Rate)	Pre-RS BER is displayed
Post RS BER and TEF (Transport Error Flag)	Post Reed Solomon BER (TEF ratio), TEF rate, and number of Transport Error Flags (TEF count) is displayed
Constellation	The RF constellation is displayed

Table 1–14: COFDM interface board characteristics

Characteristic	Description
Input Frequency Range	50 MHz to 858 MHz (to include low VHF)
Input Signal Amplitude Range	The receiver delivers QEF (Quasi Error Free) operation over following signal power ranges: QPSK (4QAM): -85 dBm to -10 dBm (24 dBuV to 99 dBuV) 16QAM: -80 dBm to -10 dBm (29 dBuV to 99 dBuV) 64QAM: -72 dBm to -15 dBm (37 dBuV to 94 dBuV)
Compliance	COFDM (DVB-T) receptions and demodulation, compliant with ETSI EN300-744, 2 K and 8 K transmission modes
Tuning Resolution	166.7 kHz or smaller increments
Tuning Accuracy	Better than $\pm$ 50ppm
Channel Bandwidth	7 MHz and 8 MHz (software selectable)
Connector Style	F-style
Input Termination Impedance	75 ohm nominal
Input Return Loss	7 dB minimum, 50 MHz to 858 MHz
Modulation Schemes Supported	QPSK (4QAM), 16QAM, and 64QAM modulation
Transmission Modes	2 K carriers and 8 K carriers
Hierarchical modulation	All hierarchies will be supported, to include no hierarchy, and alpha = 1, 2 and 4
Viterbi puncture rates	1/2, 2/3, 3/4, 5/6, 7/8
Guard Intervals	1/32, 1/16, 1/8, 1/4
Spectrum Polarity	The receiver will operate with both inverted and normal spectral polarity
Ultimate Modulation Error Ratio, with Equalizer	$\geq$ 37 dB with equalizer

Table 1–15: COFDM measurements

Characteristic	Description
Overall Receiver Lock Status	Overall receiver lock status isindicated by an LED on the rear panel
Transmission Coding Parameters	The receiver reports the current status of the following transmission parameters: - QPSK/16, QAM/64, QAM encoding - 2K/8K Transmission mode - Hierarchy status (hierarchy on/off, alpha value) - Viterbi puncture rate - Guard Interval Value - Gross bit rate in the channel - Spectrum polarity (inverted/non inverted)
Input Level (Signal Strength)	Ranges, High Sensitivity mode: QPSK (4QAM): -85 dBm to -10 dBm (24 dBuV to 99 dBuV) 16QAM: -80 dBm to -10 dBm (29 dBuV to 99 dBuV) 64QAM: -72 dBm to -13 dBm (37 dBuV to 96 dBuV) Ranges, High Resolution mode: QPSK (4QAM): -45 dBm to -10 dBm (64 dBuV to 99 dBuV) 16QAM: -45 dBm to -10 dBm (64 dBuV to 99 dBuV) 64QAM: -45 dBm to -13 dBm (64 dBuV to 96 dBuV) Resolution: 1 dBm Accuracy: ± 3 dBm
RF Carrier Offset	The RF carrier offset from center frequency shall be reported. Accuracy: ± 50 ppm, of the tuned frequency
SNR (Signal to Noise Ratio)	Display Range: 6 dB to 40 dB for QPSK (4QAM): 11 dB to 40 dB for 16QAM 16 dB to 40 dB for 64QAM Resolution: 1 dB Accuracy: ± 1 dB to 30 dB SNR (measured at -30 dBm input in high resolution mode)
EVM (Error Vector Magnitude)	Display Range: ≤ 1% to ≥ 30% rms, for QPSK ≤ 1% to ≥ 20% rms, 16QAM ≤ 1% to ≥ 8.5% rms, 64QAM Resolution: 0.1% Accuracy: 1% (1 EVM unit), and additional ± 20% of reading

Table 1–15: COFDM measurements (Cont.)

Characteristic	Description
MER (Modulation Error Ratio) with Equalizer	Both MER Peak and MER Average are displayed as measured across all carriers Display Range: 6 dB to 37 dB for QPSK (4QAM) 11 dB to 37 dB for 16QAM 16 dB to 37 dB for 64QAM Resolution: 0.1 dB Accuracy: ± 1 dB to 30 dB (Measured at –30 dBm input in High Resolution mode). For best MER accuracy, use High Resolution mode, and maintain the input signal level between –45 dBm and –15 dBm
Carrier Power Distribution	The carrier-by-carrier signal-to-noise power ratio is displayed Channel Flatness in dB can be viewed from spectrum display Tilt in dB can be viewed from spectrum display
Channel Equalization Status	Channel estimate I and Q values for each carrier are displayed
Constellation	The RF constellation is displayed
BER	Pre–Viterbi BER and Pre Reed–Solomon BER values are displayed
Post RS BER and TEF (Transport Error Flag)	Post Reed Solomon BER (uncorrectable error count) and number of Transport Error Flags are displayed

Table 1–16: 8VSB board characteristics

Characteristic	Description
Input Frequency Range	54 MHz to 860 MHz, VHF/UHF channels 2 to 69 (to include low VHF frequencies)
Input Signal Level	–72 dBm to –6 dBm (–23 dBmV to + 43 dBmV) ≥ –60 dBm to ensure compliance to EN 55103-2 immunity.
Modulation Format	8VSB in accordance with ATSC A/53B
Receiver Bandwidth	6 MHz
Input Termination Impedance	75 ohm nominal
Connector Type	F type
Input Return Loss	5 dB minimum

Table 1–17: 8VSB measurements

Characteristic	Description
RF Lock	RF lock is indicated LED and Status
Input Level (Signal Strength)	Display Range: –72 dBm to –2 dBm relative to 75 ohms (–23 dBmV to +47 dBmV) Resolution: 1dB Accuracy: ± 3dB
EVM (Error Vector Magnitude)	Display Range: ≤ 3.0% to ≥ 12.5% rms Resolution: 0.1% Accuracy: ± 20% of reading
Equivalent MER (Modulation Error Ratio) with Equalizer	Display Range: 17 dB to 31 dB with Equalizer Resolution: 0.1 dB Accuracy: ± 1 dB for MER > 25 dB; ± 3 db for MER 25 dB to 31 dB (Measured at –30 dBm input. For best MER accuracy maintain the input signal level between –50 dBm and –15 dBm)
SNR (Signal to Noise Ratio)	Display Range: 15 dB to 35 dB Resolution: 1 dB Accuracy: ± 1 dB for SNR < 25 dB; ± 3 db for SNR 25 dB to 35 dB
BER	Pre–RS BER, SER 1 second and 10 seconds windows values are displayed
TEF (Transport Error Flag)	Transport Error Flags (uncorrectable error count) in a 1 second window and 10 second window are displayed
Constellation Diagram	The 8VSB constellation diagram is a display of I-data history with histograms (the IQ constellation is not available). This is displayed as Symbol Distribution in the user interface
Echo Profile	Equalizer filter tap information is displayed. Display Echo Level range: Normalized real tap values over the range of –1 to 1. Display Delay range: –6.7 μs to 45.5 μs

Table 1–18: QAM Annex B board characteristics

Characteristic	Description
Input Frequency Range	88 MHz to 858 MHz
Input Signal Level	–64 dBm to –19 dBm (45 dBuV to 90 dBuV relative to 75 ohm) (With either a 64 or 256 QAM input, there are five or less Transport Error Flags in 11 seconds, which corresponds to a post FEC rate of $1e^{-8}$) $\geq$ 55 dBm to ensure compliance to EN 55103-2 immunity
Modulation Format	64QAM, 256QAM (compliant with ITU J–83 Annex B)
Interleaving Mode	Level 1 and Level 2 interleaving support compliant with all ITU J–83 Annex B, excluding I, J = 128,7 and 128,8
Modulation Baud Rate	64 QAM: 5.056941 Mbaud/s 256 QAM: 5.360537 Mbaud/s
Spectrum Polarity	Demodulates both Normal and Inverted IF Spectrum
Receiver Bandwidth, QAM B	6 MHz nominal
Connector Type	F type
Input Termination Impedance	75 ohm nominal
Input Return Loss	5 dB minimum
Ultimate Modulation Error Ratio with Equalizer	$\geq$ 37 dB with equalizer

Table 1–19: QAM Annex B measurements

Characteristic	Description
RF Lock	RF lock is indicated by LED and Status
Input Level (Signal Strength)	Range: –64 dBm to –19 dBm (45 dBuV to 90 dBuV relative to 75 ohms) Resolution: 1 dB Accuracy: ± 3 dB
EVM (Error Vector Magnitude)	Display Range for 64 QAM: ≤ 1% to ≥ 5% rms Display Range for 256 QAM: ≤ 1% to ≥ 2.5% rms Resolution: 0.1% Accuracy: ± 1%
MER (Modulation Error Ratio) with Equalizer	Display Range: 64 QAM: 22 dB to 37 dB 256 QAM: 28 dB to 37 dB Resolution: 0.1 dB Accuracy: ± 1 dB for MER < 25 dB; ± 3 db for MER 25 dB to 34 dB (measured at –30 dBm input)
SNR (Signal to Noise Ratio)	Display Range: 64QAM: 22 dB to 37 dB 256QAM: 28 dB to 37 dB Resolution: 1 dB Accuracy: ± 1 dB for SNR < 25 dB; ± 3 db for SNR 25 dB to 34 dB
BER (Bit Error Ratio)	Pre–RS BER is displayed
TEF (Transport Error Flag)	Transport Error Flags (uncorrectable error count) in a 1 second window and 10 second window is displayed
Constellation	The RF constellation is displayed

Table 1–20: TS processor – alarm connector

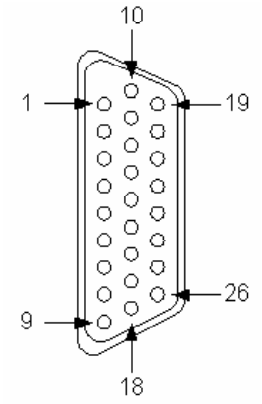
26-Pin, D-Type Connector	Pin	Function	Description
	1	DGND	Ground
	2	TTL02	TTL Output 2
	3	DGND	Ground
	4	P5V	5 V
	5	RL1NC	Relay 1: Normally closed contact
	6	RL2NC	Relay 2: Normally closed contact
	7	RL3NC	Relay 3: Normally closed contact
	8	RL4NC	Relay 4: Normally closed contact
	9	RL5NC	Relay 5: Normally closed contact
	10	DGND	Ground
	11	DGND	Ground
	12	TTL03	TTL Output 3
	13	P5V	5 V
	14	RL1CC	Relay 1: Common contact
	15	RL2CC	Relay 2: Common contact
	16	RL3CC	Relay 3: Common contact
	17	RL4CC	Relay 4: Common contact
	18	RL5CC	Relay 5: Common contact
	19	TTL01	TTL Output 1
	20	DGND	Ground
	21	TTLI1	TTL Input 1
	22	RL1NO	Relay 1: Normally open contact
	23	RL2NO	Relay 2: Normally open contact
	24	RL3NO	Relay 3: Normally open contact
	25	RL4NO	Relay 4: Normally open contact
	26	RL5NO	Relay 5: Normally open contact
	Connector shell – Chassis ground		

Table 1–21: TS processor – alarms

Characteristic	Value
Alarm Relay	
Number of relays	5
Maximum Switching Current	1 Amp
Maximum Switch Voltage	24 Vdc
Contact Resistance	100 milli-ohm max
TTL Output Pins of the Alarms Output Connector	
Output Type	TTL open collector, requires external pull-up resistor
Logic High Voltage	2.0 V min
Logic Low Voltage	0.8 V max, sinking 100 mA
Maximum Switching Current	100 mA
TTL Input Pins of the Alarms Output Connector	
Maximum Input Voltage	5.1 V
Logic High Input Voltage	2.0 V min
Logic Low Input Voltage	0.8 V max
+5 V Output, Pins 4 and 13 of the Alarms Output Connector	
Output Voltage	4.9 V min, 5.1 V max, no load
Maximum Output Current	100 mA
Output Protection	Fused, self resetting

Table 1–22: TS processor – LTC in

LTC 2-pin connector	Pin	Function	Description
	1	IN+	
	2	IN–	
	Connector shell – Chassis ground		
Port Specification			
Type	Linear time code, SMPTE standard to ANSI/SMPTE 12M – 1995		
Input Voltage	2.0 V_{p-p} differentially min		

Table 1–23: TS processor – Ethernet RJ-45 connector

Characteristic	Description
Connector	10/100 Base-T; RJ-45 Use only good quality screened cable; Cat 6

Power Source Characteristics

Table 1–24: AC power source characteristics

Characteristic	Description
Source Voltage	100 VAC to 240 VAC
Frequency Range	50 Hz/60 Hz
Power Consumption	1 A max
Peak Inrush Current	7.2 A peak at 240 VAC, 50 Hz
Fuse Rating	Mains fuse is 3.15 A, 250 V (Not operator replaceable. Refer servicing to qualified service personnel.)

Table 1–25: Transport stream board batteries

Characteristic	Description
Quantity	2 (In single carrier)
Voltage	3 V
Capacity	210 mAh
Continuous Discharge (Maximum)	3 mA
Overall Dimensions (Single cell)	
Height	3.2 mm (0.13 in)
Width (Diameter)	20 mm (0.79 in)
Battery Type	Tektronix part number: 146-0096-00

Environmental Characteristics

Table 1–26: Environmental characteristics

Characteristic	Description
Temperature	
Operating	+5 °C to +40 °C
Non-operating	–10 °C to +60 °C
Humidity	
Operating	10% to 80% relative humidity up to 31 °C. Above 31 °C, decreasing linearly to 50% at 40 °C.
Non-operating	10% to 95% relative humidity, non-condensing
Altitude	
Operating	0 m to 3000 m (9800 ft)
Non-operating	0 m to 12000 m (40000 ft)

Mechanical (Physical) Characteristics

Table 1–27: Mechanical characteristics

Characteristic	Description
Classification	Transportable platform also intended for 19 inch rack mounted applications, 1RU high.
Overall Dimensions	
Height	44 mm (1.73 in) (1RU)
Width	430 mm (17.13 in)
Depth	600 mm (23.62 in)
Required Clearance	Top and bottom: 0 mm; Sides: Standard 19 in rack mount
Weight	6.0 kg (13.3 lbs); fully loaded
Packaged Dimensions	
Height	241 mm (9.5 in)
Width	590 mm (23.1 in)
Depth	760 mm (30 in)
Weight (Packaged)	9 kg (19.7 lbs)

Certifications and Compliances

Table 1–28: Certifications and compliances

Category	Standard or Description
EC Declaration of Conformity – EMC	Meets the intent of Directive 89/336/EEC for Electromagnetic Compatibility. Compliance was demonstrated to the following specifications as listed in the Official Journal of the European Communities: EN 55103 Product family standard for audio, video, audio–visual and entertainment lighting control apparatus for professional use[1]. Environment E4 – controlled EMC environment Part 1 Emission EN 55022 Class A radiated and conducted emissions EN 55103-1, Annex A Radiated magnetic field emissions Part 2 Immunity[1] IEC 61000-4-2 Electrostatic discharge immunity IEC 61000-4-3 RF electromagnetic field immunity IEC 61000-4-4 Electrical fast transient / burst immunity IEC 61000-4-5 Power line surge immunity IEC 61000-4-6 Conducted RF Immunity IEC 61000-4-11 Voltage dips and interruptions immunity EN 55103-2, Annex A Radiated magnetic field immunity EN 55103-2, Annex B Balanced ports common mode immunity EN 61000-3-2 AC power line harmonic emissions EN 61000-3-2 Voltage Changes, fluctuations and flicker [1] Refer to RF interface card specification for minimum RF input level required to ensure EMC immunity performance.
Australia/New Zealand Declaration of Conformity – EMC	Complies with EMC provision of Radiocommunications Act per the following standard(s): AS/NZS 2064.1/2 Class A limits for Industrial, Scientific, and Medical Equipment: 1992
FCC	Radiated and conducted emissions do not exceed the levels specified in FCC 47 CFR, Part 15, Subpart B, for Class A equipment.
EC Declaration of Conformity – Low Voltage	Compliance was demonstrated to the following specification as listed in the Official Journal of the European Union: Low Voltage Directive 73/23/EEC, amended by 93/69/EEC EN 61010-1/A2 Safety requirements for electrical equipment for measurement control and laboratory use.
U.S. Nationally Recognized Testing Laboratory Listing	UL3111-1 Standard for electrical measuring and test equipment.
Canadian Certification	CAN/CSA C22.2 No. 1010.1 Safety requirements for electrical equipment for measurement, control, and laboratory use.

Table 1–28: Certifications and compliances (Cont.)

Category	Standard or Description	
Additional Compliance	ANSI/ISA S82.02.01 : 1999	Safety standard for electrical and electronic test, measuring, controlling, and related equipment.
	IEC61010-1/A2 : 1995	Safety requirements for electrical equipment for measurement, control, and laboratory use (first edition).
Installation (Overvoltage) Category	Terminals on this product may have different installation (overvoltage) category designations. The installation categories are:	
	CAT III	Distribution-level mains (usually permanently connected). Equipment at this level is typically in a fixed industrial location.
	CAT II	Local-level mains (wall sockets). Equipment at this level includes appliances, portable tools, and similar products. Equipment is usually cord-connected.
	CAT I	Secondary (signal level) or battery operated circuits of electronic equipment.
	Overvoltage Category II (as defined in IEC61010-1)	
Pollution Degree Description	A measure of the contaminates that could occur in the environment around and within a product.	
	Typically the internal environment inside a product is considered to be the same as the external.	
	Products should be used only in the environment for which they are rated.	
	Pollution Degree 1	No pollution or only dry, nonconductive pollution occurs. Products in this category are generally encapsulated, hermetically sealed, or located in clean rooms.
	Pollution Degree 2	Normally only dry, nonconductive pollution occurs. Occasionally a temporary conductivity that is caused by condensation must be expected. This location is a typical office/home environment. Temporary condensation occurs only when the product is out of service.
	Pollution Degree 3	Conductive pollution, or dry, nonconductive pollution that becomes conductive due to condensation. These are sheltered locations where neither temperature nor humidity is controlled. The area is protected from direct sunshine, rain, or direct wind.
	Pollution Degree 4	Pollution that generates persistent conductivity through conductive dust, rain, or snow. Typical outdoor locations.
	Pollution Degree 2 (as defined in IEC61010-1). Rated for indoor use only.	

Table 1–29: Environmental limits and use classification for safety certification compliance

Category	Standard or Description
Temperature, operating	+5 °C to +40 °C
Altitude (maximum operating)	3000 meters
Equipment Type	Test and measuring
Safety Class	Class 1 (as defined in IEC61010-1) – grounded product
Source Voltage Range	100 VAC to 240 VAC, 50 Hz/60 Hz, single phase
Fuse Rating	Mains fuse is 3.15A, 250 V, Fast; Not operator replaceable. Refer servicing to qualified service personnel.

Test Parameters

Test Parameters

Each error state displayed on the user interface is the result of making one or more measurements or tests on the incoming transport stream. The displayed tests are derived from the DVB and ATSC standards. Additional proprietary tests are also included.

Some measurements and tests translate directly to an error state; others are the result of a combination of tests. For many of the tests, you can affect the result by varying parameters that influence the test result, for example, maximum and minimum bit rate values.

This section provides the following cross−referenced information:

- The Standards Tests section (page 2−2) identifies the tests and event identities associated with each of the DTV standards; some additional categories are also included.
- Event identity to Test Name (page 2−27); including a brief description of the test, the applicable standards and the associated parameters.
- Test name to Event Identity (Table 2−1, page 2−121): a cross-reference between Test Names and Event identities.
- Parameter Reference (Table 2−2, page 2−139); lists all available parameters and gives values for each.
- Event Traps (Table 2−3, page 2−161); lists the SNMP (Simple Network Management Protocol) traps available for each event.

***NOTE**. Event identities referred to in this section are relevant to all Tektronix MPEG monitoring products.*

Standards Tests

The following sub-sections identify the tests and event identities associated with each of the DTV standards; some additional categories are also included. The sections are as follows:

DVB Tests

Any Stream error : Event ID = 2000
- TR 101 290 : Event ID = 37f7
  - Priority 1 : Event ID = 37f3
    - 1.1 Sync : Event ID = 3011
    - 1.2 Sync Byte : Event ID = 3012
    - 1.3.a PAT : Event ID = 3018
      - 1.3 PAT (Timer) : Event ID = 3100
      - 1.3 PAT (Table ID) : Event ID = 3101
      - 1.3 PAT (Scrambling) : Event ID = 3102
      - PAT Missing : Event ID = 3750
    - 1.4 Continuity : Event ID = 3014
      - 1.4 Continuity : Event ID = 3132
    - 1.5.a PMT : Event ID = 3019
      - 1.5 PMT (Timer) : Event ID = 3103
        - Event ID = 3160
        - 1.5 PMT (Timer) : Event ID = 3160
        - 1.5 PMT (Scrambling) : Event ID = 3104
      - PAT/PMT Consistency : Event ID = 3330
    - 1.6 PID : Event ID = 3016
      - 1.6 PID : Event ID = 3017
  - Priority 2 : Event ID = 37f4
    - 2.1 Transport : Event ID = 3021
    - 2.2 CRC : Event ID = 3022
    - 2.3.a PCR Repetition : Event ID = 3150
      - 2.3.a PCR Repetition : Event ID = 3117
    - 2.3.b PCR Discontinuity Indicator : Event ID = 3151

2.3.b PCR Discontinuity Indicator : Event ID = 3118
2.4 PCR Accuracy : Event ID = 3024
2.4 PCR Accuracy : Event ID = 3028
2.5 PTS : Event ID = 3025
2.5 PTS : Event ID = 3728
2.6 CAT : Event ID = 3026
2.6 CAT (Table ID) : Event ID = 3107
2.6 CAT (Scrambling) : Event ID = 3114
CAT max subtable RI : Event ID = 3115
Priority 3 : Event ID = 37f5
3.1.a NIT Actual : Event ID = 3140
3.1 NIT (Table ID) : Event ID = 3109
NIT Actual Min Section Reptn Int : Event ID = 3703
Event ID = 3729
NIT Actual Max Section Reptn Int : Event ID = 3705
NIT Actual Missing : Event ID = 3751
3.1b NIT Other : Event ID = 3708
Event ID = 372d
3.2 SI Repetition : Event ID = 3032
3.8 TDT (Timer) : Event ID = 3112
NIT Actual Min Section Reptn Int : Event ID = 3703
Event ID = 3729
NIT Actual Max Subtable Reptn Int : Event ID = 3704
Event ID = 372a
NIT Other Min Section Reptn Int : Event ID = 3706
Event ID = 372b
NIT Other Max Subtable Reptn Int : Event ID = 3707
Event ID = 372c
SDT Actual Min Section Reptn Int : Event ID = 3709
Event ID = 372e
SDT Actual Max Subtable Reptn Int : Event ID = 370a
Event ID = 372f
SDT Other Min Section Reptn Int : Event ID = 370c
Event ID = 3730
SDT Other Max Subtable Reptn Int : Event ID = 370d
Event ID = 3731
EIT Actual PF Min Sect Reptn Int : Event ID = 370f
Event ID = 3733
EIT Actual PF Max Subtable Reptn Int : Event ID = 3710
Event ID = 3734
EIT Other PF Min Sect Reptn Int : Event ID = 3713
Event ID = 3735

EIT Other PF Max Subtable Reptn Int : Event ID = 3714
Event ID = 3736
EIT Actual Sched Min Sect Reptn Int : Event ID = 3717
Event ID = 3737
EIT Actual Sched Max Subtable Reptn Int : Event ID = 3718
Event ID = 3738
EIT Other Sched Min Sect Reptn Int : Event ID = 3719
Event ID = 3739
EIT Other Sched Max Subtable Reptn Int : Event ID = 371a
Event ID = 373a
RST Min Sect Reptn Int : Event ID = 371b
Event ID = 373b
TDT Min Sect Reptn Int : Event ID = 371c
Event ID = 373c
TOT Min Sect Reptn Int : Event ID = 371e
Event ID = 373d
TOT Max Sect Reptn Int : Event ID = 371f
BAT Min Sect Reptn Int : Event ID = 3720
Event ID = 373e
BAT Max Subtable Reptn Int : Event ID = 3721
Event ID = 373f
3.1b NIT Other : Event ID = 3708
Event ID = 372d
3.5b SDT Other : Event ID = 370e
Event ID = 3732
CAT max subtable RI : Event ID = 3115
3.4.a Unref PID : Event ID = 303b
3.4.a Unref PID : Event ID = 303a
3.5.a SDT Actual : Event ID = 3142
3.5 SDT (Table ID) : Event ID = 3106
SDT Actual Min Section Reptn Int : Event ID = 3709
Event ID = 372e
SDT Actual Max Section Reptn Int : Event ID = 370b
SDT Actual Missing : Event ID = 3752
3.5b SDT Other : Event ID = 370e
Event ID = 3732
3.6.a EIT Actual : Event ID = 3143
3.6 EIT (Table ID) : Event ID = 3111
EIT Actual PF Min Sect Reptn Int : Event ID = 370f
Event ID = 3733
EIT Actual P Max Sect Reptn Int : Event ID = 3711
EIT Actual F Max Sect Reptn Int : Event ID = 3712

EIT Actual PF Missing : Event ID = 3753
3.6.b EIT Other : Event ID = 3144
EIT Other P Max Sect Reptn Int : Event ID = 3715
EIT Other F Max Sect Reptn Int : Event ID = 3716
3.6.c EIT PF : Event ID = 3333
Event ID = 3051
EIT PF Presence Error : Event ID = 3052
3.7 RST : Event ID = 3037
RST (Table ID) : Event ID = 3120
RST Min Sect Reptn Int : Event ID = 371b
Event ID = 373b
3.8 TDT : Event ID = 3038
3.8 TDT (Timer) : Event ID = 3112
3.8 TDT (Table ID) : Event ID = 3113
TDT Min Sect Reptn Int : Event ID = 371c
Event ID = 373c
TDT Missing : Event ID = 3754
Any DPI/SIT Errors : Event ID = 382A
DPI/SIT Missing : Event ID = 3826
Event ID = 3827
DPI/SIT Multiple (>1) PIDs per Program : Event ID = 3823
DPI/SIT Excess (>8) PIDs per Program : Event ID = 3824
DPI/SIT Ecryption failure : Event ID = 3825
DPI/SIT Syntax error : Event ID = 3828
DPI/SIT Max subtable repetion rate error : Event ID = 3829
Any DPI/SIT Information : Event ID = C01C
DPI/SIT Data : Event ID = C017
DPI/SIT Cancel : Event ID = C018
DPI/SIT Splice : Event ID = C019
DPI/SIT Program Splice : Event ID = C01A
DPI/SIT Component Splice : Event ID = C01B
Other : Event ID = 37f2
Table Tests : Event ID = 37f6
Any Table Syntax : Event ID = 3520
PAT Syntax : Event ID = 3500
PMT Syntax : Event ID = 3501
CAT Syntax : Event ID = 3502
NIT Syntax : Event ID = 3503
BAT Syntax : Event ID = 3504
SDT Syntax : Event ID = 3505
EIT Syntax : Event ID = 3506
TDT Syntax : Event ID = 3507

TOT Syntax : Event ID = 3508
RST Syntax : Event ID = 3509
Table Id Error : Event ID = 37fb
3.8 TDT (Table ID) : Event ID = 3113
RST (Table ID) : Event ID = 3120
Timer Error : Event ID = 37fc
3.8 TDT (Timer) : Event ID = 3112
EIT PF Presence Error : Event ID = 3052
PAT Missing : Event ID = 3750
NIT Actual Missing : Event ID = 3751
SDT Actual Missing : Event ID = 3752
EIT Actual PF Missing : Event ID = 3753
TDT Missing : Event ID = 3754
PAT/PMT Consistency : Event ID = 3330
PAT/SDT Consistency : Event ID = 3331
Miscellaneous : Event ID = 37f9
TS Availability : Event ID = 3053
PID Occupancy : Event ID = 2001
PID Occupancy : Event ID = 2004
Prog Occupancy : Event ID = 2002
Event ID = 3039
Prog Occupancy : Event ID = 3039
PCR Overall Jitter (PCR_OJ) : Event ID = 3040
PCR Overall Jitter (PCR_OJ) : Event ID = 3043
PCR Frequency Offset (PCR_FO) : Event ID = 3041
PCR Frequency Offset (PCR_FO) : Event ID = 3044
PCR Drift Rate (PCR_DR) : Event ID = 3042
PCR Drift Rate (PCR_DR) : Event ID = 3045
PID Group Occupancy : Event ID = 2005
Event ID = 2003
PID Bit Rate Variability : Event ID = 2010
PID Bit Rate Variability : Event ID = 2011
Discontinuity : Event ID = 3131
Discontinuity : Event ID = 3133
Transport Stream Occupancy : Event ID = 3600
Service Log Overflow : Event ID = 5200
Program Information : Event ID = c001
PTS/DTS Syntax Error : Event ID = 3054
Any Template Errors : Event ID = 6FFF
Template Header error : Event ID = 6000
Template Transport ID error : Event ID = 6010
Template Network ID error : Event ID = 6020

- Template Original Network ID error : Event ID = 6030
- Template Service ID error : Event ID = 6040
- Template Service error : Event ID = 6100
- Template Service PCR error : Event ID = 6110
- Template Service Type error : Event ID = 6120
- Template Service Name error : Event ID = 6130
- Template Service Constraint error : Event ID = 6140
- Template Service PID number error : Event ID = 6150
- Template _PID error : Event ID = 6200
- Template PID CA error : Event ID = 6210
- Template PID Scrambling error : Event ID = 6220
- Template PID Stream Type error : Event ID = 6230
- Template PID Constraint error : Event ID = 6240
- Template Rating error : Event ID = 6300
- Individual Template Rating error : Event ID = 6301
- Template Rating Region error : Event ID = 6310
- Template Rating Guidance error : Event ID = 6320
- SFN Error : Event ID = 3400
- SFN (No MIP) : Event ID = 3401
- SFN One MIP per M/F : Event ID = 3410
- SFN Repetition : Event ID = 3411
- SFN (Invalid MIP) : Event ID = 3403
- SFN MIP Length : Event ID = 3412
- SFN CRC : Event ID = 3413
- SFN MIP Coding : Event ID = 3414
- SFN Periodicity Consistency : Event ID = 3415
- SFN Pointer Consistency : Event ID = 3416
- SFN (Timer) : Event ID = 3404

ATSC Tests

- MPEG TR 101 290 : Event ID = 37f7
- Priority 1 : Event ID = 37f3
- 1.1 Sync : Event ID = 3011
- 1.2 Sync Byte : Event ID = 3012
- 1.3.a PAT : Event ID = 3018
- 1.3 PAT (Timer) : Event ID = 3100
- 1.3 PAT (Table ID) : Event ID = 3101
- 1.3 PAT (Scrambling) : Event ID = 3102
- PAT Missing : Event ID = 3750
- 1.4 Continuity : Event ID = 3014
- 1.4 Continuity : Event ID = 3132
- 1.5.a PMT : Event ID = 3019
- 1.5 PMT (Timer) : Event ID = 3103

- Event ID = 3160
  - 1.5 PMT (Timer) : Event ID = 3160
  - 1.5 PMT (Scrambling) : Event ID = 3104
- PAT/PMT Consistency : Event ID = 3330
- 1.6 PID : Event ID = 3016
- 1.6 PID : Event ID = 3017

Priority 2 : Event ID = 37f4

- 2.1 Transport : Event ID = 3021
- 2.2 CRC : Event ID = 3022
- 2.3.a PCR Repetition : Event ID = 3150
  - 2.3.a PCR Repetition : Event ID = 3117
  - 2.3.b PCR Discontinuity Indicator : Event ID = 3151
  - 2.3.b PCR Discontinuity Indicator : Event ID = 3118
  - 2.4 PCR Accuracy : Event ID = 3024
  - 2.4 PCR Accuracy : Event ID = 3028
  - 2.5 PTS : Event ID = 3025
  - 2.5 PTS : Event ID = 3728
  - 2.6 CAT : Event ID = 3026
  - 2.6 CAT (Scrambling) : Event ID = 3114
    - CAT max subtable RI : Event ID = 3115

Event ID = 37f2

- Table Tests : Event ID = 37f6
  - Any Table Syntax : Event ID = 3520
    - PAT Syntax : Event ID = 3500
      - PMT Syntax : Event ID = 3501
      - CAT Syntax : Event ID = 3502
      - MGT Syntax : Event ID = 350a
      - RRT Syntax : Event ID = 350b
      - VCT Syntax : Event ID = 350c
      - EIT-k Syntax : Event ID = 350d
      - STT Syntax : Event ID = 350e
      - ETT Syntax : Event ID = 350f
      - DCCT Syntax : Event ID = 3510
      - DCCSCT Syntax : Event ID = 3511
    - Table Id Error : Event ID = 37fb
  - Timer Error : Event ID = 37fc
    - A/65 VCT (Timer) : Event ID = 3210
      - Event ID = 374b
        - A/65 MGT (Timer) : Event ID = 3211
      - A/65 STT (Timer) : Event ID = 3212
      - A/65 RRT (Timer) : Event ID = 3213
    - A/65 MGT : Event ID = 3201

A/65 MGT (Timer) : Event ID = 3211
MGT Missing : Event ID = 3755
A/65 STT : Event ID = 3202
A/65 STT (Timer) : Event ID = 3212
STT Missing : Event ID = 3758
A/65 RRT : Event ID = 3203
A/65 RRT (Timer) : Event ID = 3213
RRT Missing : Event ID = 3757
A/65 EIT : Event ID = 3204
EIT-0,1,2,3 Max Sect Reptn Int : Event ID = 3727
EIT-0,1,2,3 Missing : Event ID = 3759
A/65 VCT : Event ID = 3205
A/65 VCT (Timer) : Event ID = 3210
Event ID = 374b
VCT Max Sect Reptn Int : Event ID = 374c
VCT Missing : Event ID = 3756
A/65 ETT : Event ID = 3206
MGT/EIT-k presence : Event ID = 3230
PAT Missing : Event ID = 3750
MGT Missing : Event ID = 3755
VCT Missing : Event ID = 3756
EIT-0,1,2,3 Missing : Event ID = 3759
STT Missing : Event ID = 3758
RRT Missing : Event ID = 3757
PAT/PMT Consistency : Event ID = 3330
PAT/VCT consistency : Event ID = 3332
EIT-0,1,2,3 Max Sect Reptn Int : Event ID = 3727

Miscellaneous : Event ID = 37f9
TS Availability : Event ID = 3053
PID Occupancy : Event ID = 2001
PID Occupancy : Event ID = 2004
Prog Occupancy : Event ID = 2002
Event ID = 3039
Prog Occupancy : Event ID = 3039
PCR Overall Jitter (PCR_OJ) : Event ID = 3040
PCR Overall Jitter (PCR_OJ) : Event ID = 3043
PCR Frequency Offset (PCR_FO) : Event ID = 3041
PCR Frequency Offset (PCR_FO) : Event ID = 3044
PCR Drift Rate (PCR_DR) : Event ID = 3042
PCR Drift Rate (PCR_DR) : Event ID = 3045
PID Group Occupancy : Event ID = 2005

Event ID = 2003
PID Bit Rate Variability : Event ID = 2010
PID Bit Rate Variability : Event ID = 2011
Discontinuity : Event ID = 3131
Discontinuity : Event ID = 3133
A/65 Base PID : Event ID = 3208
A/53 Prog P'digm : Event ID = 3320
Transport Stream Occupancy : Event ID = 3600
Service Log Overflow : Event ID = 5200
Program Information : Event ID = c001
PTS/DTS Syntax Error : Event ID = 3054

ISDB-S Tests

Priority Tests : Event ID = 37f7
Priority 1 : Event ID = 37f3
1.1 Sync : Event ID = 3011
1.2 Sync Byte : Event ID = 3012
1.3.a PAT : Event ID = 3018
1.3 PAT (Timer) : Event ID = 3100
1.3 PAT (Table ID) : Event ID = 3101
1.3 PAT (Scrambling) : Event ID = 3102
PAT Missing : Event ID = 3750
1.4 Continuity : Event ID = 3014
1.4 Continuity : Event ID = 3132
1.5.a PMT : Event ID = 3019
1.5 PMT (Timer) : Event ID = 3103
Event ID = 3160
1.5 PMT (Timer) : Event ID = 3160
1.5 PMT (Scrambling) : Event ID = 3104
PAT/PMT Consistency : Event ID = 3330
1.6 PID : Event ID = 3016
1.6 PID : Event ID = 3017
Priority 2 : Event ID = 37f4
2.1 Transport : Event ID = 3021
2.2 CRC : Event ID = 3022
2.3.a PCR Repetition : Event ID = 3150
2.3.a PCR Repetition : Event ID = 3117
2.3.b PCR Discontinuity Indicator : Event ID = 3151
2.3.b PCR Discontinuity Indicator : Event ID = 3118
2.4 PCR Accuracy : Event ID = 3024
2.4 PCR Accuracy : Event ID = 3028
2.5 PTS : Event ID = 3025
2.5 PTS : Event ID = 3728

2.6 CAT : Event ID = 3026
2.6 CAT (Table ID) : Event ID = 3107
2.6 CAT (Scrambling) : Event ID = 3114
CAT max subtable RI : Event ID = 3115
Priority 3 : Event ID = 37f5
3.1.a NIT Actual : Event ID = 3140
3.1 NIT (Table ID) : Event ID = 3109
NIT Actual Min Section Reptn Int : Event ID = 3703
Event ID = 3729
NIT Actual Max Section Reptn Int : Event ID = 3705
NIT Missing : Event ID = 3751
3.1.b NIT Other : Event ID = 3708
Event ID = 372d
3.2 SI Repetition : Event ID = 3032
NIT Actual Min Section Reptn Int : Event ID = 3703
Event ID = 3729
NIT Actual Max Subtable Reptn Int : Event ID = 3704
Event ID = 372a
SDT Actual Min Section Reptn Int : Event ID = 3709
Event ID = 372e
SDT Actual Max Subtable Reptn Int : Event ID = 370a
Event ID = 372f
SDT Other Min Section Reptn Int : Event ID = 370c
Event ID = 3730
SDT Other Max Subtable Reptn Int : Event ID = 370d
Event ID = 3731
EIT Actual PF Min Sect Reptn Int : Event ID = 370f
Event ID = 3733
EIT Actual PF Max Subtable Reptn Int : Event ID = 3710
Event ID = 3734
EIT Other PF Min Sect Reptn Int : Event ID = 3713
Event ID = 3735
EIT Other PF Max Subtable Reptn Int : Event ID = 3714
Event ID = 3736
EIT Actual Sched Min Sect Reptn Int : Event ID = 3717
Event ID = 3737
EIT Actual Sched Max Subtable Reptn Int : Event ID = 3718
Event ID = 3738
EIT Other Sched Min Sect Reptn Int : Event ID = 3719
Event ID = 3739
EIT Other Sched Max Subtable Reptn Int : Event ID = 371a
Event ID = 373a

TOT Min Section Reptn Int : Event ID = 371e
Event ID = 373d
TOT Max Section Reptn Int : Event ID = 371f
3.1.b NIT Other : Event ID = 3708
Event ID = 372d
3.5.b SDT Other : Event ID = 370e
Event ID = 3732
CAT max subtable RI : Event ID = 3115
SDTT Max Subtable Reptn Int : Event ID = 3761
Event ID = 3742
BIT Max Subtable Reptn Int : Event ID = 3763
Event ID = 3744
SDTT Min Sect Reptn Int : Event ID = 3760
Event ID = 3741
BIT Min Sect Reptn Int : Event ID = 3762
Event ID = 3743
3.4.a Unreferenced PID : Event ID = 303b
3.4.a Unreferenced PID : Event ID = 303a
3.5.a SDT Actual : Event ID = 3142
3.5 SDT (Table ID) : Event ID = 3106
SDT Actual Min Section Reptn Int : Event ID = 3709
Event ID = 372e
SDT Actual Max Section Reptn Int : Event ID = 370b
SDT Missing : Event ID = 3752
3.5.b SDT Other : Event ID = 370e
Event ID = 3732
3.6.a EIT Actual : Event ID = 3143
3.6 EIT (Table ID) : Event ID = 3111
EIT Actual PF Min Sect Reptn Int : Event ID = 370f
Event ID = 3733
EIT Actual P Max Sect Reptn Int : Event ID = 3711
EIT Actual F Max Sect Reptn Int : Event ID = 3712
EIT Missing : Event ID = 3753
3.6.b EIT Other : Event ID = 3144
EIT Other P Max Sect Reptn Int : Event ID = 3715
EIT Other F Max Sect Reptn Int : Event ID = 3716
3.6c EIT PF : Event ID = 3333
Event ID = 3051
DVB EIT P/F Presence Consistency : Event ID = 3052
Other : Event ID = 37f2
Table Tests : Event ID = 37f6
Any Table Syntax : Event ID = 3520

PAT Syntax : Event ID = 3500
PMT Syntax : Event ID = 3501
CAT Syntax : Event ID = 3502
NIT Syntax : Event ID = 3503
SDT Syntax : Event ID = 3505
EIT Syntax : Event ID = 3506
TOT Syntax : Event ID = 3508
SDTT Syntax : Event ID = 3791
BIT Syntax : Event ID = 3792
Table Id Error : Event ID = 37fb
SDTT (Table Id) : Event ID = 3780
BIT (Table Id) : Event ID = 3781
Timer Error : Event ID = 37fc
SDTT : Event ID = 3770
SDTT Min Sect Reptn Int : Event ID = 3760
Event ID = 3741
SDTT Max Subtable Reptn Int : Event ID = 3761
Event ID = 3742
SDTT (Table Id) : Event ID = 3780
BIT : Event ID = 3771
BIT Min Sect Reptn Int : Event ID = 3762
Event ID = 3743
BIT Max Subtable Reptn Int : Event ID = 3763
Event ID = 3744
BIT (Table Id) : Event ID = 3781
DVB EIT P/F Presence Consistency : Event ID = 3052
PAT Missing : Event ID = 3750
NIT Missing : Event ID = 3751
SDT Missing : Event ID = 3752
EIT Missing : Event ID = 3753
PAT/PMT Consistency : Event ID = 3330
PAT/SDT consistency : Event ID = 3331
Miscellaneous : Event ID = 37f9
TS Availability : Event ID = 3053
PID Occupancy : Event ID = 2001
PID Occupancy : Event ID = 2004
Prog Occupancy : Event ID = 2002
Event ID = 3039
<ProgramTest Description=”Prog Occupancy : Event ID = 3039
</ProgramTest>
PCR Overall Jitter (PCR_OJ) : Event ID = 3040
PCR Overall Jitter (PCR_OJ) : Event ID = 3043

PCR Frequency Offset (PCR_FO) : Event ID = 3041
PCR Frequency Offset (PCR_FO) : Event ID = 3044
PCR Drift Rate (PCR_DR) : Event ID = 3042
PCR Drift Rate (PCR_DR) : Event ID = 3045
PID Group Occupancy : Event ID = 2005
Event ID = 2003
PID Bit Rate Variability : Event ID = 2010
PID Bit Rate Variability : Event ID = 2011
Discontinuity : Event ID = 3131
Discontinuity : Event ID = 3133
Transport Stream Occupancy : Event ID = 3600
Service Log Overflow : Event ID = 5200
Program Information : Event ID = c001
PTS/DTS Syntax Error : Event ID = 3054

ISDB-T Tests

Priority Tests : Event ID = 37f7
Priority 1 : Event ID = 37f3
1.1 Sync : Event ID = 3011
1.2 Sync Byte : Event ID = 3012
1.3.a PAT : Event ID = 3018
1.3 PAT (Timer) : Event ID = 3100
1.3 PAT (Table ID) : Event ID = 3101
1.3 PAT (Scrambling) : Event ID = 3102
PAT Missing : Event ID = 3750
1.4 Continuity : Event ID = 3014
1.4 Continuity : Event ID = 3132
1.5.a PMT : Event ID = 3019
1.5 PMT (Timer) : Event ID = 3103
Event ID = 3160
1.5 PMT (Timer) : Event ID = 3160
1.5 PMT (Scrambling) : Event ID = 3104
PAT/PMT Consistency : Event ID = 3330
1.6 PID : Event ID = 3016
1.6 PID : Event ID = 3017
Priority 2 : Event ID = 37f4
2.1 Transport : Event ID = 3021
2.2 CRC : Event ID = 3022
2.3.a PCR Repetition : Event ID = 3150
2.3.a PCR Repetition : Event ID = 3117
2.3.b PCR Discontinuity Indicator : Event ID = 3151
2.3.b PCR Discontinuity Indicator : Event ID = 3118

2.4 PCR Accuracy : Event ID = 3024
2.4 PCR Accuracy : Event ID = 3028
2.5 PTS : Event ID = 3025
2.5 PTS : Event ID = 3728
2.6 CAT : Event ID = 3026
2.6 CAT (Table ID) : Event ID = 3107
2.6 CAT (Scrambling) : Event ID = 3114
CAT max subtable RI : Event ID = 3115
Priority 3 : Event ID = 37f5
3.1.a NIT : Event ID = 3140
3.1 NIT (Table ID) : Event ID = 3109
NIT Min Section Reptn Int : Event ID = 3703
Event ID = 3729
NIT Max Section Reptn Int : Event ID = 3705
NIT Missing : Event ID = 3751
3.2 SI Repetition : Event ID = 3032
NIT Min Section Reptn Int : Event ID = 3703
Event ID = 3729
NIT Max Subtable Reptn Int : Event ID = 3704
Event ID = 372a
SDT Min Section Reptn Int : Event ID = 3709
Event ID = 372e
SDT Max Subtable Reptn Int : Event ID = 370a
Event ID = 372f
TOT Min Sect Reptn Int : Event ID = 371e
Event ID = 373d
TOT Max Sect Reptn Int : Event ID = 371f
CAT max subtable RI : Event ID = 3115
BIT Max Subtable Reptn Int : Event ID = 3763
Event ID = 3744
CDT Max Subtable Reptn Int : Event ID = 3776
Event ID = 374d
BIT Min Section Reptn Int : Event ID = 3762
Event ID = 3743
CDT Min Sect Reptn Int : Event ID = 3775
Event ID = 374e
M-EIT Max Subtable Reptn Int : Event ID = 375c
L-EIT Max Subtable Reptn Int : Event ID = 375e
M-EIT Min Sect Reptn Int : Event ID = 375d
L-EIT Min Sect Reptn Int : Event ID = 375f
SDTT(H) max subtable RI : Event ID = 37e9
Event ID = 37eb

SDTT(H) min section RI : Event ID = 37e8
Event ID = 37ea
SDTT(L) max subtable RI : Event ID = 37ed
Event ID = 37ef
SDTT(L) min section RI : Event ID = 37ec
Event ID = 37ee
3.4.a Unref PID : Event ID = 303b
3.4.a Unref PID : Event ID = 303a
3.5.a SDT : Event ID = 3142
3.5 SDT (Table ID) : Event ID = 3106
SDT Min Section Reptn Int : Event ID = 3709
Event ID = 372e
SDT Max Section Reptn Int : Event ID = 370b
SDT Missing : Event ID = 3752
3.6.a EIT : Event ID = 3143
3.6c EIT PF : Event ID = 3333
Event ID = 3051
DVB EIT P/F Presence Consistency : Event ID = 3052
ISDB Tests : Event ID = 37f8
ISDBT NIT Terrestrial Delivery Validation : Event ID = 37a1
ISDBT Mode/Guard Interval Validation : Event ID = 379e
ISDBT Time Interleaving Validation : Event ID = 379f
ISDBT Modulation/Error Compensation Validation : Event ID = 37a0
ISDBT Partial Reception/TS Information Consistency : Event ID = 37a3
ISDBT Guard Interval Consistency : Event ID = 379a
ISDBT Transmission Mode Consistency : Event ID = 379b
ISDBT Partial Reception Consistency : Event ID = 379c
ISDBT Modulation Consistency : Event ID = 379d
ISDBT NIT Service List Consistency : Event ID = 37a2
ISDBT EIT Type Content Check : Event ID = 37a5
ISDBT EIT Unique Event Id : Event ID = 37a6
ISDBT SDT/EIT Consistency : Event ID = 37a7
Event ID = 37a8
ISBBT NIT/EIT Consistency : Event ID = 37aa
Event ID = 37ab
Event ID = 37ab
ISDBT NIT/SDT Consistency : Event ID = 37b1
ISDBT Any IIP CRC : Event ID = 37b4
ISDBT IIP MCCI CRC : Event ID = 37b2
ISDBT IIP SFN Sync CRC : Event ID = 37b3
ISDBT IIP Branching : Event ID = 37c1
ISDBT IIP Error : Event ID = 37c2

ISDBT TMCC Id Error : Event ID = 37c3
HEIT Schedule : Event ID = 37fd
H-EIT basic schedule max subtable RI for TV : Event ID = 37b5
Event ID = 37d0
Event ID = 37d1
Event ID = 37d2
Event ID = 37d3
H-EIT basic schedule max subtable RI for audio : Event ID = 37b6
Event ID = 37d4
Event ID = 37d5
Event ID = 37d6
Event ID = 37d7
H-EIT basic schedule max subtable RI for data : Event ID = 37b7
Event ID = 37d8
Event ID = 37d9
Event ID = 37da
Event ID = 37db
H-EIT extended schedule max subtable RI for TV : Event ID = 37b8
Event ID = 37dc
Event ID = 37dd
Event ID = 37de
Event ID = 37df
H-EIT extended schedule max subtable RI for audio : Event ID = 37b9
Event ID = 37e0
Event ID = 37e1
Event ID = 37e2
Event ID = 37e3
H-EIT extended schedule max subtable RI for data : Event ID = 37ba
Event ID = 37e4
Event ID = 37e5
Event ID = 37e6
Event ID = 37e7
Other : Event ID = 37f2
Table Tests : Event ID = 37f6
Any Table Syntax : Event ID = 3520
PAT Syntax : Event ID = 3500
PMT Syntax : Event ID = 3501
CAT Syntax : Event ID = 3502
NIT Syntax : Event ID = 3503
SDT Syntax : Event ID = 3505
EIT Syntax : Event ID = 3506
TOT Syntax : Event ID = 3508

BIT Syntax : Event ID = 3792
CDT Syntax : Event ID = 3799
SDTT(L) Syntax : Event ID = 37f1
SDTT(H) Syntax : Event ID = 37f0
Table Id Error : Event ID = 37fb
TOT (Table ID) : Event ID = 3119
H-EIT (Table ID) : Event ID = 311a
M-EIT (Table ID) : Event ID = 311b
L-EIT (Table ID) : Event ID = 311c
L-SDTT (Table ID) : Event ID = 311d
H-SDTT (Table ID) : Event ID = 311e
SIT (Table ID) : Event ID = 311f
DIT (Table ID) : Event ID = 3126
BIT (Table ID) : Event ID = 3781
Timer Error : Event ID = 37fc
TOT : Event ID = 3134
TOT Min Sect Reptn Int : Event ID = 371e
Event ID = 373d
TOT Max Sect Reptn Int : Event ID = 371f
TOT (Table ID) : Event ID = 3119
H-EIT : Event ID = 3127
H-EIT (Table ID) : Event ID = 311a
H-EIT PF Min Sect Reptn Int : Event ID = 370f
Event ID = 3733
H-EIT PF Max Subtable Reptn Int : Event ID = 3710
Event ID = 3734
M-EIT : Event ID = 3128
M-EIT (Table ID) : Event ID = 311b
M-EIT Max Subtable Reptn Int : Event ID = 375c
M-EIT Min Sect Reptn Int : Event ID = 375d
L-EIT : Event ID = 3129
L-EIT (Table ID) : Event ID = 311c
L-EIT Max Subtable Reptn Int : Event ID = 375e
L-EIT Min Sect Reptn Int : Event ID = 375f
L-SDTT : Event ID = 312b
SDTT(L) min section RI : Event ID = 37ec
Event ID = 37ee
SDTT(L) max subtable RI : Event ID = 37ed
Event ID = 37ef
L-SDTT (Table ID) : Event ID = 311d
H-SDTT : Event ID = 312a
SDTT(H) min section RI : Event ID = 37e8

- Event ID = 37ea
- SDTT(H) max subtable RI : Event ID = 37e9
- Event ID = 37eb
- H-SDTT (Table ID) : Event ID = 311e

SIT : Event ID = 312d
- SIT (Table ID) : Event ID = 311f

DIT : Event ID = 312c
- DIT (Table ID) : Event ID = 3126

CDT : Event ID = 3777
- CDT Min Sect Reptn Int : Event ID = 3775
  - Event ID = 374e
  - CDT Max Subtable Reptn Int : Event ID = 3776
  - Event ID = 374d
- BIT : Event ID = 3771
- BIT Min Section Reptn Int : Event ID = 3762
  - Event ID = 3743
  - BIT Max Subtable Reptn Int : Event ID = 3763
  - Event ID = 3744
  - BIT (Table ID) : Event ID = 3781

DVB EIT P/F Presence Consistency : Event ID = 3052
PAT Missing : Event ID = 3750
NIT Missing : Event ID = 3751
SDT Missing : Event ID = 3752
EIT Missing : Event ID = 3753
PAT/PMT Consistency : Event ID = 3330
PAT/SDT consistency : Event ID = 3331

Miscellaneous : Event ID = 37f9

TS Availability : Event ID = 3053
PID Occupancy : Event ID = 2001
- PID Occupancy : Event ID = 2004

Prog Occupancy : Event ID = 2002
- Event ID = 3039
- Prog Occupancy : Event ID = 3039

PCR Overall Jitter (PCR_OJ) : Event ID = 3040
- PCR Overall Jitter (PCR_OJ) : Event ID = 3043

PCR Frequency Offset (PCR_FO) : Event ID = 3041
- PCR Frequency Offset (PCR_FO) : Event ID = 3044

PCR Drift Rate (PCR_DR) : Event ID = 3042
- PCR Drift Rate (PCR_DR) : Event ID = 3045

PID Group Occupancy : Event ID = 2005
- Event ID = 2003

PID Bit Rate Variability : Event ID = 2010

PID Bit Rate Variability : Event ID = 2011
Discontinuity : Event ID = 3131
Discontinuity : Event ID = 3133
Transport Stream Occupancy : Event ID = 3600
Service Log Overflow : Event ID = 5200
Program Information : Event ID = c001
PTS/DTS Syntax Error : Event ID = 3054

China Tests

China Tests MTM
TR 101 290 : Event ID = 37f7
Priority 1 : Event ID = 37f3
1.1 Sync : Event ID = 3011
1.2 Sync Byte : Event ID = 3012
1.3.a PAT : Event ID = 3018
1.3 PAT (Timer) : Event ID = 3100
1.3 PAT (Table ID) : Event ID = 3101
1.3 PAT (Scrambling) : Event ID = 3102
PAT Missing : Event ID = 3750
1.4 Continuity : Event ID = 3014
1.4 Continuity : Event ID = 3132
1.5.a PMT : Event ID = 3019
1.5 PMT (Timer) : Event ID = 3103
EventID=”3160
1.5 PMT (Timer) : Event ID = 3160
1.5 PMT (Scrambling) : Event ID = 3104
PAT/PMT Consistency : Event ID = 3330
1.6 PID : Event ID = 3016
1.6 PID : Event ID = 3017
Priority 2 : Event ID = 37f4
2.1 Transport : Event ID = 3021
2.2 CRC : Event ID = 3022
2.3.a PCR Repetition : Event ID = 3150
2.3.a PCR Repetition : Event ID = 3117
2.3.b PCR Discontinuity Indicator : Event ID = 3151
2.3.b PCR Discontinuity Indicator : Event ID = 3118
2.4 PCR Accuracy : Event ID = 3024
2.4 PCR Accuracy : Event ID = 3028
2.5 PTS : Event ID = 3025
2.5 PTS : Event ID = 3728
2.6 CAT : Event ID = 3026
2.6 CAT (Table ID) : Event ID = 3107

2.6 CAT (Scrambling) : Event ID = 3114
CAT max subtable RI : Event ID = 3115
Priority 3 : Event ID = 37f5
3.1.a NIT Actual : Event ID = 3140
3.1 NIT (Table ID) : Event ID = 3109
NIT Actual Min Section Reptn Int : Event ID = 3703
Event ID = 3729
NIT Actual Max Section Reptn Int : Event ID = 3705
NIT Actual Missing : Event ID = 3751
3.1b NIT Other : Event ID = 3708
Event ID = 372d
3.2 SI Repetition : Event ID = 3032
3.8 TDT (Timer) : Event ID = 3112
NIT Actual Min Section Reptn Int : Event ID = 3703
Event ID = 3729
NIT Actual Max Subtable Reptn Int : Event ID = 3704
Event ID = 372a
NIT Other Min Section Reptn Int : Event ID = 3706
Event ID = 372b
NIT Other Max Subtable Reptn Int : Event ID = 3707
Event ID = 372c
SDT Actual Min Section Reptn Int : Event ID = 3709
Event ID = 372e
SDT Actual Max Subtable Reptn Int : Event ID = 370a
Event ID = 372f
SDT Other Min Section Reptn Int : Event ID = 370c
Event ID = 3730
SDT Other Max Subtable Reptn Int : Event ID = 370d
Event ID = 3731
EIT Actual PF Min Sect Reptn Int : Event ID = 370f
Event ID = 3733
EIT Actual PF Max Subtable Reptn Int : Event ID = 3710
Event ID = 3734
EIT Other PF Min Sect Reptn Int : Event ID = 3713
Event ID = 3735
EIT Other PF Max Subtable Reptn Int : Event ID = 3714
Event ID = 3736
EIT Actual Sched Min Sect Reptn Int : Event ID = 3717
Event ID = 3737
EIT Actual Sched Max Subtable Reptn Int : Event ID = 3718
Event ID = 3738
EIT Other Sched Min Sect Reptn Int : Event ID = 3719

Event ID = 3739
EIT Other Sched Max Subtable Reptn Int : Event ID = 371a
Event ID = 373a
RST Min Sect Reptn Int : Event ID = 371b
Event ID = 373b
TDT Min Sect Reptn Int : Event ID = 371c
Event ID = 373c
TOT Min Sect Reptn Int : Event ID = 371e
Event ID = 373d
TOT Max Sect Reptn Int : Event ID = 371f
BAT Min Sect Reptn Int : Event ID = 3720
Event ID = 373e
BAT Max Subtable Reptn Int : Event ID = 3721
Event ID = 373f
3.1b NIT Other : Event ID = 3708
Event ID = 372d
3.5b SDT Other : Event ID = 370e
Event ID = 3732
CAT max subtable RI : Event ID = 3115
3.4.a Unref PID : Event ID = 303b
3.4.a Unref PID : Event ID = 303a
3.5.a SDT Actual : Event ID = 3142
3.5 SDT (Table ID) : Event ID = 3106
SDT Actual Min Section Reptn Int : Event ID = 3709
Event ID = 372e
SDT Actual Max Section Reptn Int : Event ID = 370b
SDT Actual Missing : Event ID = 3752
3.5b SDT Other : Event ID = 370e
Event ID = 3732
3.6.a EIT Actual : Event ID = 3143
3.6 EIT (Table ID) : Event ID = 3111
EIT Actual PF Min Sect Reptn Int : Event ID = 370f
Event ID = 3733
EIT Actual P Max Sect Reptn Int : Event ID = 3711
EIT Actual F Max Sect Reptn Int : Event ID = 3712
EIT Actual PF Missing : Event ID = 3753
3.6.b EIT Other : Event ID = 3144
EIT Other P Max Sect Reptn Int : Event ID = 3715
EIT Other F Max Sect Reptn Int : Event ID = 3716
3.6.c EIT PF : Event ID = 3333
Event ID = 3051
EIT PF Presence Error : Event ID = 3052

- 3.7 RST : Event ID = 3037
  - RST (Table ID) : Event ID = 3120
  - RST Min Sect Reptn Int : Event ID = 371b
    - Event ID = 373b
- 3.8 TDT : Event ID = 3038
  - 3.8 TDT (Timer) : Event ID = 3112
  - 3.8 TDT (Table ID) : Event ID = 3113
  - TDT Min Sect Reptn Int : Event ID = 371c
    - Event ID = 373c
  - TDT Missing : Event ID = 3754

Other : Event ID = 37f2

- Table Tests : Event ID = 37f6
  - Any Table Syntax : Event ID = 3520
    - PAT Syntax : Event ID = 3500
    - PMT Syntax : Event ID = 3501
    - CAT Syntax : Event ID = 3502
    - NIT Syntax : Event ID = 3503
    - BAT Syntax : Event ID = 3504
    - SDT Syntax : Event ID = 3505
    - EIT Syntax : Event ID = 3506
    - TDT Syntax : Event ID = 3507
    - TOT Syntax : Event ID = 3508
    - RST Syntax : Event ID = 3509
  - Table Id Error : Event ID = 37fb
    - 3.8 TDT (Table ID) : Event ID = 3113
    - RST (Table ID) : Event ID = 3120
  - Timer Error : Event ID = 37fc
    - 3.8 TDT (Timer) : Event ID = 3112
  - EIT PF Presence Error : Event ID = 3052
  - PAT Missing : Event ID = 3750
  - NIT Actual Missing : Event ID = 3751
  - SDT Actual Missing : Event ID = 3752
  - EIT Actual PF Missing : Event ID = 3753
  - TDT Missing : Event ID = 3754
  - PAT/PMT Consistency : Event ID = 3330
  - PAT/SDT Consistency : Event ID = 3331
- Miscellaneous : Event ID = 37f9
  - TS Availability : Event ID = 3053
  - PID Occupancy : Event ID = 2001
    - PID Occupancy : Event ID = 2004
  - Prog Occupancy : Event ID = 2002
    - Event ID = 3039

Prog Occupancy : Event ID = 3039
PCR Overall Jitter (PCR_OJ) : Event ID = 3040
PCR Overall Jitter (PCR_OJ) : Event ID = 3043
PCR Frequency Offset (PCR_FO) : Event ID = 3041
PCR Frequency Offset (PCR_FO) : Event ID = 3044
PCR Drift Rate (PCR_DR) : Event ID = 3042
PCR Drift Rate (PCR_DR) : Event ID = 3045
PID Group Occupancy : Event ID = 2005
Event ID = 2003
PID Bit Rate Variability : Event ID = 2010
PID Bit Rate Variability : Event ID = 2011
Discontinuity : Event ID = 3131
Discontinuity : Event ID = 3133
Transport Stream Occupancy : Event ID = 3600
Service Log Overflow : Event ID = 5200
Program Information : Event ID = c001
PTS/DTS Syntax Error : Event ID = 3054
SFN Error : Event ID = 3400
SFN (No MIP) : Event ID = 3401
SFN One MIP per M/F : Event ID = 3410
SFN Repetition : Event ID = 3411
SFN (Invalid MIP) : Event ID = 3403
SFN MIP Length : Event ID = 3412
SFN CRC : Event ID = 3413
SFN MIP Coding : Event ID = 3414
SFN Periodicity Consistency : Event ID = 3415
SFN Pointer Consistency : Event ID = 3416
SFN (Timer) : Event ID = 3404

RF Tests

RF Metric Errors : Event ID = 3816
EVID_RF_LOCK : Event ID = 3800
EVID_RF_MER : Event ID = 3801
EVID_RF_MER_DRIFT : Event ID = 3802
EVID_RF_EVM : Event ID = 3803
EVID_RF_EVM_DRIFT : Event ID = 3804
EVID_RF_BER_PRE_RS : Event ID = 3805
EVID_RF_BER_PRE_RS_DRIFT : Event ID = 3806
EVID_RF_BER_PRE_VITERBI : Event ID = 3807
EVID_RF_BER_PRE_VITERBI_DRIFT : Event ID = 3808
EVID_RF_BER_POST_RS : Event ID = 3809
EVID_RF_BER_POST_RS_DRIFT : Event ID = 380A
EVID_RF_TEF : Event ID = 380B

EVID_RF_TEF_DRIFT : Event ID = 380C
EVID_RF_POWER_HIGH : Event ID = 380D
EVID_RF_POWER_LOW : Event ID = 380E
EVID_RF_POWER_DRIFT : Event ID = 380F
EVID_RF_SNR : Event ID = 3810
EVID_RF_SNR_DRIFT : Event ID = 3811
EVID_RF_CNR : Event ID = 3812
EVID_RF_CNR_DRIFT : Event ID = 3813
EVID_RF_CARRIER_OFFSET : Event ID = 3814
EVID_RF_CARRIER_OFFSET_DRIFT : Event ID = 3815
RF Metric Warnings : Event ID = C01E" >
RF_MER_W : Event ID = C002
RF_MER_DRIFT_W : Event ID = C003
RF_EVM_W : Event ID = C004
RF_EVM_DRIFT_W : Event ID = C005
RF_BER_PRE_RS_W : Event ID = C006
RF_BER_PRE_RS_DRIFT_W : Event ID = C007
RF_BER_PRE_VITERBI_W : Event ID = C008
RF_BER_PRE_VITERBI_DRIFT_W : Event ID = C009
RF_BER_POST_RS_W : Event ID = C00A
RF_BER_POST_RS_DRIFT_W : Event ID = C00B
RF_TEF_W : Event ID = C00C
RF_TEF_DRIFT_W : Event ID = C00D
RF_POWER_HIGH_W : Event ID = C00E
RF_POWER_LOW_W : Event ID = C00F
RF_POWER_DRIFT_W : Event ID = C010
RF_SNR_W : Event ID = C011
RF_SNR_DRIFT_W : Event ID = C012
RF_CNR_W : Event ID = C013
RF_CNR_DRIFT_W : Event ID = C014
RF_CARRIER_OFFSET_W : Event ID = C015
RF_CARRIER_OFFSET_DRIFT_W : Event ID = C016

Template Tests

- Any Template Errors : Event ID = 6FFF
  - Template Header error : Event ID = 6000
    - Template Transport ID error : Event ID = 6010
    - Template Network ID error : Event ID = 6020
    - Template Original Network ID error : Event ID = 6030
    - Template Service ID error : Event ID = 6040
  - Template Service error : Event ID = 6100
    - Template Service PCR error : Event ID = 6110
    - Template Service Type error : Event ID = 6120
    - Template Service Name error : Event ID = 6130
    - Template Service Constraint error : Event ID = 6140
    - Template Service PID number error : Event ID = 6150
  - Template _PID error : Event ID = 6200
    - Template PID CA error : Event ID = 6210
    - Template PID Scrambling error : Event ID = 6220
    - Template PID Stream Type error : Event ID = 6230
    - Template PID Constraint error : Event ID = 6240
  - Template Rating error : Event ID = 6300
    - Individual Template Rating error : Event ID = 6301
    - Template Rating Region error : Event ID = 6310
    - Template Rating Guidance error : Event ID = 6320

Event Identity to Test Name

This section provides a cross-reference between event identities and test names. Details of the associated parameters can be found in Table 2–3.

4096 (Hex: 0x1000) **Any Box Error**

Description: The state of any box error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4097 (Hex: 0x1001) **Fan State**

Description: The current state of the fan

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4098 (Hex: 0x1002) **EVID_HARD_DISK**

Description: EVID_HARD_DISK

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4099 (Hex: 0x1003) **EVID_FLOPPY_DISK**

Description: EVID_FLOPPY_DISK

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4100 (Hex: 0x1004) **Temperature**

Description: Indicates whether temperature is within operating range

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4101 (Hex: 0x1005) **EVID_DCVOLTAGE test change**

Description: EVID_DCVOLTAGE

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4128 (Hex: 0x1020) **EVID_PLUS_FIVE_VOLTS**

Description: EVID_PLUS_FIVE_VOLTS

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4129 (Hex: 0x1021) **EVID_PLUS_TWELVE_VOLTS**

Description: EVID_PLUS_TWELVE_VOLTS

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4130 (Hex: 0x1022) **EVID_MINUS_FIVE_VOLTS**

Description: EVID_MINUS_FIVE_VOLTS

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4131 (Hex: 0x1023) **EVID_MINUS_TWELVE_VOLTS**

Description: EVID_MINUS_TWELVE_VOLTS

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4144 (Hex: 0x1030) **Local Temperature**

Description: Local Temperature

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4145 (Hex: 0x1031) **Remote Temperature**

Description: Remote Temperature

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4146 (Hex: 0x1032) **System Card Temperature**

Description: System Card Temperature

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4160 (Hex: 0x1040) **Fan 1**

Description: The current state of fan 1 test change

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4161 (Hex: 0x1041) **Fan 2**

Description: The current state of fan 2

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4162 (Hex: 0x1042) **Fan 3**

Description: The current state of fan 3

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4163 (Hex: 0x1043) **Fan 4**

Description: The current state of fan 4

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4164 (Hex: 0x1044) **Fan Monitor**

Description: The current state of the fan monitor

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4352 (Hex: 0x1100) **EVID_SV_START**

Description: EVID_SV_START

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4353 (Hex: 0x1101) **EVID_SV_STOP**

Description: EVID_SV_STOP

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4354 (Hex: 0x1102) **EVID_SV_INIT_FAIL**

Description: EVID_SV_INIT_FAIL

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4355 (Hex: 0x1103) **EVID_ALARM_RESET**

Description: EVID_ALARM_RESET

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4356 (Hex: 0x1104) **EVID_EVENT_RESET**

Description: EVID_EVENT_RESET

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4357 (Hex: 0x1105) **EVID_CLEAR_LOG**

Description: EVID_CLEAR_LOG

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4608 (Hex: 0x1200) **EVID_SV_DEBUG**

Description: EVID_SV_DEBUG

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4609 (Hex: 0x1201) **I2C**

Description: I2C communications state

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4610 (Hex: 0x1202) **Battery**

Description: Battery state

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4611 (Hex: 0x1203) **EVID_BOX_CONFIG**

Description: EVID_BOX_CONFIG

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4612 (Hex: 0x1204) **EVID_INTERFACE_FIRMWARE**

Description: EVID_INTERFACE_FIRMWARE

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4613 (Hex: 0x1205) **EVID_ASSERTION**

Description: EVID_ASSERTION

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4614 (Hex: 0x1206) **Real Time Clock**

Description: The current state of the RTC

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4615 (Hex: 0x1207) **EVID_FIRMWARE_UPLOAD**

Description: EVID_FIRMWARE_UPLOAD

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4616 (Hex: 0x1208) **EVID_NETWORK**

Description: EVID_NETWORK

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4617 (Hex: 0x1209) **EVID_LOGIC**

Description: EVID_LOGIC

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4624 (Hex: 0x1210) **EVID_MISC_HARDWARE**

Description: EVID_MISC_HARDWARE

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4625 (Hex: 0x1211) **LTC Clock**

Description: Longitudinal Time Clock

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4626 (Hex: 0x1212) **Network Clock**

Description: Simple Network Time Protocol Clock

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4627 (Hex: 0x1213) **Time Source**

Description: Time Source state

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4628 (Hex: 0x1214) **Front Panel**

Description: Front Panel state

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4629 (Hex: 0x1215) **EVID_FRONT_PANEL_ITEM**

Description: EVID_FRONT_PANEL_ITEM

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4630 (Hex: 0x1216) System Card

Description: System Card state

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

4631 (Hex: 0x1217) EVID_BOX_TIME_SET

Description: EVID_BOX_TIME_SET

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

8192 (Hex: 0x2000) Any Stream Error

Description: The state of any event on this stream

Applicable Standards: DVB

Associated Parameters:

PP1	PID bit rate limit and missing test integration count
PS10	PAT/PMT obsolescence count
PS4	PID bit rate bin duration (bit rate is over 10 bins)
PS57	PID reference transition time
PS6	PID bit rate bin count for service log

8193 (Hex: 0x2001) PID Occupancy

Description: PID occupancy exceeds limits

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP6	Min pid bit rate
PP7	Max pid bit rate

8194 (Hex: 0x2002) **Program Occupancy**

Description: Program occupancy exceeds limits

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

8195 (Hex: 0x2003) **EVID_PIDGROUP_OCC_LIM**

Description: PID Group occupancy exceeds limits

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

8196 (Hex: 0x2004) **PID Occupancy**

Description: PID Occupancy

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP6	Min pid bit rate
PP7	Max pid bit rate

8197 (Hex: 0x2005) **PID Group Occupancy**

Description: The bit rate of this PID Group exceeds the set limits.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

8208 (Hex: 0x2010) **PID Bit Rate Variability**

Description: PID bitrate variability exceeds limits

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP8	PID bit rate variability integration count
PP9	PID bit rate variability fraction
PS5	PID bit rate bin count for variability

8209 (Hex: 0x2011) **PID Bit Rate Variability**

Description: PID Bit Rate Variability

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP8	PID bit rate variability integration count
PP9	PID bit rate variability fraction

12305 (Hex: 0x3011) **1.1 Sync Loss**

Description: Sync (DVB test 1.1)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12306 (Hex: 0x3012) **1.2 Sync Byte**

Description: Sync Byte (DVB test 1.2)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12308 (Hex: 0x3014) **1.4 Continuity**

Description: Continuity Error (DVB test 1.4)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12310 (Hex: 0x3016) **1.6 PID**

Description: Pid (DVB test 1.6)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12311 (Hex: 0x3017) **1.6 PID**

Description: 1.6 PID

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12312 (Hex: 0x3018) **1.3a PAT**

Description: PAT Table (DVB test 1.3)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PS8 PAT section max repetition interval

12313 (Hex: 0x3019) **1.5a PMT**

Description: PMT (DVB test 1.5)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PS9 PMT section max repetition interval

12321 (Hex: 0x3021) **2.1 Transport**

Description: Transport (DVB test 2.1)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12322 (Hex: 0x3022) **2.2 CRC**

Description: CRC (DVB test 2.2)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12324 (Hex: 0x3024) **2.4 PCR Accuracy**

Description: PCR Accuracy (DVB test 2.4)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP20	VSB Max PCR accuracy error
PP30	PSK Max PCR accuracy error
PP4	Max PCR accuracy error
PP40	QAM Max PCR accuracy error
PP50	COFDM Max PCR accuracy error
PP60	IP Max PCR accuracy error
PS11	PCR accuracy/jitter history length
PS180	PCR nominal bitrate (0 for use average)
PS181	PCR_OJ/AC high−pass filter cutoff (0 for same as DR/FO filter cutoff)

12325 (Hex: 0x3025) **2.5 PTS**

Description: PTS (DVB test 2.5)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP5	Max PTS repetition interval
PS103	PTS arrival history length

12326 (Hex: 0x3026) **2.6 CAT**

Description: CAT (DVB test 2.6)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PS105	CAT max subtable repetition interval
PS13	CAT present timer
PS61	CAT obsolescence count

12328 (Hex: 0x3028) 2.4 PCR Accuracy

Description: 2.4 PCR Accuracy

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP20	VSB Max PCR accuracy error
PP30	PSK Max PCR accuracy error
PP4	Max PCR accuracy error
PP40	QAM Max PCR accuracy error
PP50	COFDM Max PCR accuracy error
PP60	IP Max PCR accuracy error

12338 (Hex: 0x3032) 3.2 SI Repetition

Description: SI Repetition (DVB test 3.2)

Applicable Standards: MPEG, DVB, ISDB, Chinese, DCII

Associated Parameters:

PS179	SDT actual max subtable repetition interval
PS29	EIT other PF min section repetition interval
PS30	EIT other PF max repetition interval
PS31	EIT other PF obsolescence count
PS32	EIT actual schedule min section repetition interval
PS33	EIT actual schedule max repetition interval
PS41	TOT min repetition interval
PS42	TOT max repetition interval
PS43	BAT min section repetition interval
PS44	BAT max repetition interval
PS45	BAT obsolescence count
PS52	ETT max repetition interval
PS53	ETT obsolescence count
PS62	TSDT max repetition interval
PS63	TSDT obsolescence count
PS68	PCAT obsolescence count
PS69	PCAT max repetition interval
PS7	Repetition interval history length
PS80	LIT obsolescence count
PS81	LIT max repetition interval
PS82	ERT obsolescence count
PS83	ERT max repetition interval
PS84	ITT obsolescence count
PS85	ITT max repetition interval

12343 (Hex: 0x3037) **3.7 RST**

Description: RST Error (DVB test 3.7)

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters:
PS38 RST min section repetition interval

12344 (Hex: 0x3038) **3.8 TDT**

Description: TDT Error (DVB test 3.8)

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters:
PS39 TDT min section repetition interval
PS40 TDT max repetition interval

12345 (Hex: 0x3039) **Prog Occupancy**

Description: Indicates Program occupancy exceeds limits

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12346 (Hex: 0x303A) **3.4a Unref PID**

Description: PID (other than PMT_PIDs, PIDs with numbers between 0x00 and 0x1F or PIDs user defined as private data streams) not referred to by a PMT or a CAT within 0.5 s

Applicable Standards: MPEG, DVB, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12347 (Hex: 0x303B) **3.4a Unref PID**

Description: Unreferenced PID (DVB test 3.4)

Applicable Standards: MPEG, DVB, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12352 (Hex: 0x3040) PCR Overall Jitter (PCR_OJ)

Description: This test only applies to PIDs that are indicated as PCR_PIDs in a current PMT. Passes if the most recent PCR overall jitter PCR_OJ measurement is less than the limit.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP11	Max PCR overall jitter
PP21	VSB Max PCR overall jitter
PP31	PSK Max PCR overall jitter
PP41	QAM Max PCR overall jitter
PP51	COFDM Max PCR overall jitter
PP61	IP Max PCR overall jitter
PS181	PCR_OJ/AC high−pass filter cutoff (0 for same as DR/FO filter cutoff)

12353 (Hex: 0x3041) PCR Frequency Offset (PCR_FO)

Description: This test only applies to PIDs that are indicated as PCR_PIDs in a current PMT. Passes if the most recent PCR frequency offset PCR_FO measurement is less than the limit.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP12	Maximum PCR frequency offset
PP22	VSB Maximum PCR frequency offset
PP32	PSK Maximum PCR frequency offset
PP42	QAM Maximum PCR frequency offset
PP52	COFDM Maximum PCR frequency offset
PP62	IP Maximum PCR frequency offset
PS174	PCR_FO/DR low−pass filter cutoff frequency
PS178	PCR trend graph sample period

12354 (Hex: 0x3042) PCR Drift Rate (PCR_DR)

Description: This test only applies to PIDs which are indicated as PCR_PID in a current PMT. Passes if the average of the most recent PP14 PCR frequency drift rate measurements is less than the limit.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP13	Maximum PCR frequency drift rate
PP14	PCR frequency drift rate integration count
PP23	VSB Maximum PCR frequency drift rate
PP33	PSK Maximum PCR frequency drift rate
PP43	QAM Maximum PCR frequency drift rate
PP53	COFDM Maximum PCR frequency drift rate
PP63	IP Maximum PCR frequency drift rate
PS174	PCR_FO/DR low−pass filter cutoff frequency
PS178	PCR trend graph sample period

12355 (Hex: 0x3043) PCR Overall Jitter (PCR_OJ)

Description: This test applies only to PIDs that are indicated as PCR_PID in the current PMT.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP11	Max PCR overall jitter
PP21	VSB Max PCR overall jitter
PP31	PSK Max PCR overall jitter
PP41	QAM Max PCR overall jitter
PP51	COFDM Max PCR overall jitter
PP61	IP Max PCR overall jitter

12356 (Hex: 0x3044) PCR Frequency Offset (PCR_FO)

Description: PCR Frequency Offset (PCR_FO)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP12	Maximum PCR frequency offset
PP22	VSB Maximum PCR frequency offset
PP32	PSK Maximum PCR frequency offset
PP42	QAM Maximum PCR frequency offset

PP52 COFDM Maximum PCR frequency offset
PP62 IP Maximum PCR frequency offset

12357 (Hex: 0x3045) PCR Drift Rate (PCR_DR)

Description: This test applies only to PIDs that carry an elementary stream expected to contain PTS.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PP13 Maximum PCR frequency drift rate
PP14 PCR frequency drift rate integration count
PP23 VSB Maximum PCR frequency drift rate
PP33 PSK Maximum PCR frequency drift rate
PP43 QAM Maximum PCR frequency drift rate
PP53 COFDM Maximum PCR frequency drift rate
PP63 IP Maximum PCR frequency drift rate

12369 (Hex: 0x3051) EVID_INDIVIDUAL_DVBEIT_PF_PRESENCE

Description: Ind No EIT actual table was found for a Near VOD program.

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

12370 (Hex: 0x3052) EIT PF Presence Error

Description: DVB EIT P/F Presence Consistency

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

12371 (Hex: 0x3053) TS Availability

Description: Transport Stream Availability Error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS59 Min stream bit rate for processing

12372 (Hex: 0x3054) **PTS/DTS Syntax Error**

Description: PTS/DTS Syntax Error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12544 (Hex: 0x3100) **1.3 PAT (Timer)**

Description: PAT Error Timer

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12545 (Hex: 0x3101) **1.3 PAT (Table ID)**

Description: PAT Error Table Id

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12546 (Hex: 0x3102) **1.3 PAT (Scrambling)**

Description: PAT Error Scrambling

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12547 (Hex: 0x3103) **1.5 PMT (Timer)**

Description: PMT Error Timer

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12548 (Hex: 0x3104) **1.5 PMT (Scrambling)**

Description: PMT Error Scrambling

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12550 (Hex: 0x3106) **3.5 SDT (Table ID)**

Description: SDT Error Table Id

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

12551 (Hex: 0x3107) **CAT Table Id**

Description: CAT Error Table Id

Applicable Standards: MPEG, DVB, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12553 (Hex: 0x3109) **3.1 NIT (Table ID)**

Description: NIT Error Table Id

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

12561 (Hex: 0x3111) **3.6 EIT (Table ID)**

Description: EIT Error Table Id

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

12562 (Hex: 0x3112) **TDT Timer**

Description: TDT Error Timer

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

12563 (Hex: 0x3113) **3.8 TDT (Table ID)**

Description: TDT Error Table Id

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

12564 (Hex: 0x3114) **CAT Scrambling**

Description: CAT Error Scrambling

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12565 (Hex: 0x3115) **CAT max subtable RI**

Description: PCR Error Timer

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12567 (Hex: 0x3117) **2.3a PCR Repetition**

Description: EVID_INDIVIDUAL_PCR_ERR_TIMER

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP2 PCR max repetition interval

12568 (Hex: 0x3118) **2.3b PCR Discontinuity Indicator**

Description: This test applies only to PIDs that are indicated as PCR_PID in the current PMT.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP3 Max PCR discontinuity

12569 (Hex: 0x3119) **TOT (Table ID)**

Description: TOT Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

12570 (Hex: 0x311A) **H–EIT (Table ID)**

Description: H–EIT Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

12571 (Hex: 0x311B) **M–EIT (Table ID)**

Description: M–EIT Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

12572 (Hex: 0x311C) **L–EIT (Table ID)**

Description: L–EIT Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

12573 (Hex: 0x311D) **L–SDTT (Table ID)**

Description: SDTT(L) Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

12574 (Hex: 0x311E) **H–SDTT (Table ID)**

Description: SDTT(H) Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

12575 (Hex: 0x311F) **SIT (Table ID)**

Description: SIT Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

12576 (Hex: 0x3120) **RST (Table ID)**

Description: non–RST table on PID 0x0013

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

12582 (Hex: 0x3126) **DIT (Table ID)**

Description: DIT Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

12583 (Hex: 0x3127) **H–EIT**

Description: Collection event for all H–EIT errors

Applicable Standards: ISDB

Associated Parameters:

PS26	EIT actual PF min section repetition interval
PS27	EIT actual PF max repetition interval
PS28	EIT actual PF obsolescence count

12584 (Hex: 0x3128) **M–EIT**

Description: Collection event for all M–EIT errors

Applicable Standards: ISDB

Associated Parameters:

PS113	M–EIT max repetition interval
PS115	M–EIT min section repetition interval
PS51	EIT obsolescence count

12585 (Hex: 0x3129) **L–EIT**

Description: Collection event for all L–EIT errors

Applicable Standards: ISDB

Associated Parameters:

PS114	L–EIT max repetition interval
PS116	L–EIT min section repetition interval
PS51	EIT obsolescence count

12586 (Hex: 0x312A) **H–SDTT**

Description: Collection event for all SDTT(H) errors

Applicable Standards: ISDB

Associated Parameters:

PS169	SDTT(H) max repetition interval
PS170	SDTT(H) min section repetition interval
PS70	SDTT obsolescence count

12587 (Hex: 0x312B) **L–SDTT**

Description: Collection event for all SDTT(L) errors

Applicable Standards: ISDB

Associated Parameters:

PS171	SDTT(L) max repetition interval
PS172	SDTT(L) min section repetition interval
PS70	SDTT obsolescence count

12588 (Hex: 0x312C) **DIT**

Description: Collection event for all DIT errors

Applicable Standards: ISDB

Associated Parameters: No parameters required

12589 (Hex: 0x312D) **SIT**

Description: Collection event for all SIT errors

Applicable Standards: ISDB

Associated Parameters: No parameters required

12593 (Hex: 0x3131) **Discontinuity**

Description: The discontinuity_indicator must not be set to '1' in three consecutive transport stream packets of that same PID.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12594 (Hex: 0x3132) **1.4 Continuity**

Description: 1.4 Continuity

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12595 (Hex: 0x3133) Discontinuity

Description: Discontinuity

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12596 (Hex: 0x3134) TOT

Description: Collection event for all TOT errors

Applicable Standards: ISDB

Associated Parameters: No parameters required

12608 (Hex: 0x3140) 3.1a NIT Actual

Description: Section with table_id other than 0x40 or 0x41 or 0x72 (not an NIT or ST) found on PID 0x0010. No section with table_id 0x40 (an NIT_actual) in PID value 0x0010 for more than 10s. Any two sections with table_id = 0x40 (NIT_actual) occur on PID 0x0010 within a specified value (25ms or lower).

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters:

PS14	NIT actual network min section repetition interval
PS15	NIT actual network max repetition interval
PS16	NIT actual network obsolescence count

12610 (Hex: 0x3142) 3.5a SDT Actual

Description: Sections with table_id = 0x42 (SDT, actual TS) not present on PID 0x0011 for more than 2 s. Sections with table_ids other than 0x42, 0x46, 0x4A or 0x72 found on PID 0x0011. Any two sections with table_id = 0x42 (SDT_actual) occur on PID 0x0011 within a specified value (25 ms or lower).

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters:

PS20	SDT actual min section repetition interval
PS21	SDT actual max repetition interval
PS22	SDT actual obsolescence count

12611 (Hex: 0x3143) 3.6a EIT Actual

Description: Section ‘0’ with table_id = 0x4E (EIT−P, actual transport stream) not present on PID 0x0012 for more than 2s. Section ‘1’ with table_id = 0x4E (EIT−F, actual transport stream) not present on PID 0x0012 for more than 2s Sections with table_ids other than in the range 0x4E − 0x6F or 0x72 found on PID 0x0012. Any two sections with table_id = 0x4E (EIT−P/F, actual transport stream) occur on PID 0x0012 within a specified value (25ms)

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters:

PS175	EIT Schedule segment size setting (size = 2^x)
PS26	EIT actual PF min section repetition interval
PS27	EIT actual PF max repetition interval
PS28	EIT actual PF obsolescence count
PS32	EIT actual schedule min section repetition interval
PS33	EIT actual schedule max repetition interval
PS34	EIT actual schedule obsolescence count

12612 (Hex: 0x3144) 3.6b EIT Other

Description: Interval between sections ‘0’ with table_id = 0x4F (EIT−P, other transport stream) on PID 0x0012 longer than a specified value (10s or higher). Interval between sections ‘1’ with table_id = 0x4F (EIT−F, other transport stream) on PID 0x0012 longer than a specified value (10s or higher).

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters:

PS175	EIT Schedule segment size setting (size = 2^x)
PS29	EIT other PF min section repetition interval
PS30	EIT other PF max repetition interval
PS31	EIT other PF obsolescence count
PS35	EIT other schedule min section repetition interval
PS36	EIT other schedule max repetition interval
PS37	EIT other schedule obsolescence count

12624 (Hex: 0x3150) **2.3a PCR Repetition**

Description: PCR Error Timer

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP2 PCR max repetition interval

12625 (Hex: 0x3151) **2.3b PCR Discontinuity Indicator**

Description: The difference between two consecutive PCR values (PCRi + 1 –PCRi) is outside the range of 0ms to 100 ms without the discontinuity_ indicator set.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP3 Max PCR discontinuity

12640 (Hex: 0x3160) **1.5 PMT (Timer)**

Description: Ind PMT Error Timer

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

12801 (Hex: 0x3201) **A/65 MGT**

Description: A/65 MGT Error

Applicable Standards: ATSC

Associated Parameters:

PS47 MGT max section repetition interval

PS64 MGT obsolescence count

12802 (Hex: 0x3202) **A/65 STT**

Description: A/65 STT Error

Applicable Standards: ATSC

Associated Parameters:

PS46 STT max section repetition interval

12803 (Hex: 0x3203) **A/65 RRT**

Description: A/65 RRT Error

Applicable Standards: ATSC

Associated Parameters:

PS49	RRT max section repetition interval
PS66	RRT obsolescence count

12804 (Hex: 0x3204) **A/65 EIT**

Description: A/65 EIT Error

Applicable Standards: ATSC

Associated Parameters:

PS167	EIT 1 max repetition interval
PS168	EIT 2/3 max repetition interval
PS50	EIT 0 max repetition interval
PS51	EIT obsolescence count

12805 (Hex: 0x3205) **A/65 VCT**

Description: A/65 VCT Error

Applicable Standards: ATSC

Associated Parameters:

PS48	VCT max subtable repetition interval
PS65	VCT obsolescence count
PS91	VCT max section repetition interval

12806 (Hex: 0x3206) **A/65 ETT**

Description: ETT Error

Applicable Standards: ATSC

Associated Parameters: No parameters required

12808 (Hex: 0x3208) **A/65 Base PID**

Description: A/65 Base Pid Error

Applicable Standards: ATSC

Associated Parameters: No parameters required

12816 (Hex: 0x3210) **A/65 VCT (Timer)**

Description: VCT Timer Error

Applicable Standards: ATSC

Associated Parameters: No parameters required

12817 (Hex: 0x3211) **A/65 MGT (Timer)**

Description: MGT Timer Error

Applicable Standards: ATSC

Associated Parameters: No parameters required

12818 (Hex: 0x3212) **A/65 STT (Timer)**

Description: STT Timer Error

Applicable Standards: ATSC

Associated Parameters: No parameters required

12819 (Hex: 0x3213) **A/65 RRT (Timer)**

Description: RRT Timer Error

Applicable Standards: ATSC

Associated Parameters: No parameters required

12848 (Hex: 0x3230) **MGT/EIT–k presence**

Description: Passes if the current version of the MGT contains entries for table_types EIT–0, EIT–1, EIT–2 and EIT–3 or if the MGT contains no table_type entry for TVCT.

Applicable Standards: ATSC

Associated Parameters: No parameters required

13088 (Hex: 0x3320) **A/53 Prog P'digm**

Description: A/53 Program Paradigm

Applicable Standards: ATSC

Associated Parameters: No parameters required

13104 (Hex: 0x3330) **PAT/PMT Consistency**

Description: Passes if, for all programs listed in the PAT, there is a PMT on the correct program_map_PID whose program_number matches that in the PAT.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

13105 (Hex: 0x3331) **PAT/SDT Consistency**

Description: Passes if, for all programs listed in the PAT, there is an entry in the SDT actual_transport_stream subtable whose service_id matches the program_number in the PAT and whose transport_stream_id matches the PAT.

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

13106 (Hex: 0x3332) **PAT/VCT Consistency**

Description: Passes if, for all programs listed in the PAT, there is an entry in the VCT whose program_number matches that in the PAT and whose channel_TSID matches the PAT.

Applicable Standards: ATSC

Associated Parameters: No parameters required

13107 (Hex: 0x3333) **3.6c EIT PF**

Description: If either section (‘0’ or ‘1’) of each EIT P/F subtable is present both must exist. Otherwise EIT_PF_error should be indicated

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

13312 (Hex: 0x3400) **SFN Error**

Description: SFN Error

Applicable Standards: DVB, Chinese

Associated Parameters:

PS54	MIP max repetition interval
PS55	MIP synch time stamp jitter limit

13313 (Hex: 0x3401) **SFN (No MIP)**

Description: No SFN Mip

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13315 (Hex: 0x3403) **SFN (Invalid MIP)**

Description: Invalid SFN Mip

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13316 (Hex: 0x3404) **SFN (Timer)**

Description: Error in SFN Timer

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13328 (Hex: 0x3410) **SFN One MIP per M/F**

Description: One SFN MIP allowed per mega−frame

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13329 (Hex: 0x3411) **SFN Repetition**

Description: SFN MIP packets are turning up too slowly

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13330 (Hex: 0x3412) **SFN MIP Length**

Description: SFN MIP decode syntax check – length error

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13331 (Hex: 0x3413) **SFN CRC**

Description: SFN MIP decode syntax check – crc error

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13332 (Hex: 0x3414) **SFN MIP Coding**

Description: SFN MIP decode syntax check – invalid coding

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13333 (Hex: 0x3415) **SFN Periodicity Consistency**

Description: SFN MIP decode syntax check – inconsistent periodicity

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13334 (Hex: 0x3416) **SFN Pointer Consistency**

Description: SFN MIP decode syntax check – inconsistent pointer

Applicable Standards: DVB, Chinese

Associated Parameters: No parameters required

13568 (Hex: 0x3500) **PAT Syntax**

Description: Syntax Error decoding PAT table

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

13569 (Hex: 0x3501) **PMT Syntax**

Description: Syntax Error decoding PMT table

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

13570 (Hex: 0x3502) **CAT Syntax**

Description: Syntax Error decoding CAT table

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

13571 (Hex: 0x3503) **NIT Syntax**

Description: Syntax error in any NIT table

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

13572 (Hex: 0x3504) **BAT Syntax**

Description: Syntax error in BAT table

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

13573 (Hex: 0x3505) **SDT Syntax**

Description: Syntax error in any SDT table

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

13574 (Hex: 0x3506) **EIT Syntax**

Description: Syntax error in any EIT table

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

13575 (Hex: 0x3507) **TDT Syntax**

Description: Syntax error in TDT table

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

13576 (Hex: 0x3508) **TOT Syntax**

Description: Syntax error in TOT table

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

13577 (Hex: 0x3509) **RST Syntax**

Description: Syntax error in RST table

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

13578 (Hex: 0x350A) **MGT Syntax**

Description: Syntax error in MGT table

Applicable Standards: ATSC

Associated Parameters: No parameters required

13579 (Hex: 0x350B) **RRT Syntax**

Description: Syntax error in RRT table

Applicable Standards: ATSC

Associated Parameters: No parameters required

13580 (Hex: 0x350C) **VCT Syntax**

Description: Syntax error in VCT table

Applicable Standards: ATSC

Associated Parameters: No parameters required

13581 (Hex: 0x350D) **EIT–k Syntax**

Description: Syntax error in ATSC EIT table

Applicable Standards: ATSC

Associated Parameters: No parameters required

13582 (Hex: 0x350E) **STT Syntax**

Description: Syntax error in STT table

Applicable Standards: ATSC

Associated Parameters: No parameters required

13583 (Hex: 0x350F) **ETT Syntax**

Description: Syntax error in ETT table

Applicable Standards: ATSC

Associated Parameters: No parameters required

13584 (Hex: 0x3510) **DCCT Syntax**

Description: Syntax error in DCCT table

Applicable Standards: ATSC

Associated Parameters: No parameters required

13585 (Hex: 0x3511) **DCCSCT Syntax**

Description: Syntax error in DCCSCT table

Applicable Standards: ATSC

Associated Parameters: No parameters required

13587 (Hex: 0x3513) **PIM Syntax**

Description: Syntax error in PIM message

Applicable Standards: DCII

Associated Parameters: No parameters required

13588 (Hex: 0x3514) **PNM Syntax**

Description: Syntax error in PNM message

Applicable Standards: DCII

Associated Parameters: No parameters required

13589 (Hex: 0x3515) **NIM Syntax**

Description: Syntax error in NIM message

Applicable Standards: DCII

Associated Parameters: No parameters required

13590 (Hex: 0x3516) **NTM Syntax**

Description: Syntax error in NTM message

Applicable Standards: DCII

Associated Parameters: No parameters required

13591 (Hex: 0x3517) **VCM Syntax**

Description: Syntax error in VCM message

Applicable Standards: DCII

Associated Parameters: No parameters required

13592 (Hex: 0x3518) STM Syntax

Description: Syntax error in STM message

Applicable Standards: DCII

Associated Parameters: No parameters required

13600 (Hex: 0x3520) Any Table Syntax

Description: A long list of checks on the reserved bits, lengths, section numbers and indicators of table sections, which depending on the severity of the error faults may be tolerated or result in the section being discarded.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

13824 (Hex: 0x3600) Transport Stream Occupancy

Description: Passes if the bit rate of the Transport Stream is within the expected limits.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PS1	Measurement interval for overall bit rate
PS2	Min overall bit rate
PS3	Max overall bit rate

14083 (Hex: 0x3703) NIT Actual Min Section Reptn Int

Description: NIT actual_network minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14084 (Hex: 0x3704) NIT Actual Max Subtable Reptn Int

Description: NIT actual_network maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14085 (Hex: 0x3705) NIT Actual Max Section Reptn Int

Description: NIT actual_network maximum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14086 (Hex: 0x3706) NIT Other Min Section Reptn Int

Description: NIT other_network minimum section repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14087 (Hex: 0x3707) NIT Other Max Subtable Reptn Int

Description: NIT other_network maximum subtable repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14088 (Hex: 0x3708) 3.1b NIT Other

Description: Interval between sections with the same section_number and table_id = 0x41 (NIT_other) on PID 0x0010 longer than a specified value (10s or higher).

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters:

PS17	NIT other network min section repetition interval
PS18	NIT other network max repetition interval
PS19	NIT other network obsolescence count

14089 (Hex: 0x3709) SDT Actual Min Section Reptn Int

Description: SDT actual_transport_stream minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14090 (Hex: 0x370A) SDT Actual Max Subtable Reptn Int

Description: SDT actual_transport_stream maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters:

PS179 SDT actual max subtable repetition interval

14091 (Hex: 0x370B) SDT Actual Max Section Reptn Int

Description: SDT actual_transport_stream maximum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14092 (Hex: 0x370C) SDT Other Min Section Reptn Int

Description: SDT other_transport_stream minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14093 (Hex: 0x370D) SDT Other Max Subtable Reptn Int

Description: SDT other_transport_stream maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14094 (Hex: 0x370E) 3.5b SDT Other

Description: Interval between sections with the same section_number and table_id = 0x46 (SDT, other TS) on PID 0x0011 longer than a specified value (10s or higher).

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters:

PS23 SDT other min section repetition interval
PS24 SDT other max repetition interval
PS25 SDT other obsolescence count

14095 (Hex: 0x370F) **EIT Actual PF Min Sect Reptn Int**

Description: DVB EIT actual_transport_stream present/following minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14096 (Hex: 0x3710) **EIT Actual PF Max Subtable Reptn Int**

Description: DVB EIT actual_transport_stream present/following maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14097 (Hex: 0x3711) **EIT Actual P Max Sect Reptn Int**

Description: DVB EIT actual_transport_stream present maximum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14098 (Hex: 0x3712) **EIT Actual F Max Sect Reptn Int**

Description: DVB EIT actual_transport_stream following maximum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14099 (Hex: 0x3713) **EIT Other PF Min Sect Reptn Int**

Description: DVB EIT other_transport_stream present/following minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14100 (Hex: 0x3714) EIT Other PF Max Subtable Reptn Int

Description: DVB EIT other_transport_stream present/following maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14101 (Hex: 0x3715) EIT Other P Max Sect Reptn Int

Description: DVB EIT other_transport_stream present maximum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14102 (Hex: 0x3716) EIT Other F Max Sect Reptn Int

Description: DVB EIT other_transport_stream following maximum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14103 (Hex: 0x3717) EIT Actual Sched Min Sect Reptn Int

Description: DVB EIT actual_transport_stream schedule minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14104 (Hex: 0x3718) EIT Actual Sched Max Subtable Reptn Int

Description: DVB EIT actual_transport_stream schedule maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14105 (Hex: 0x3719) **EIT Other Sched Min Sect Reptn Int**

Description: DVB EIT other_transport_stream schedule minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14106 (Hex: 0x371A) **EIT Other Sched Max Subtable Reptn Int**

Description: DVB EIT other_transport_stream schedule maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14107 (Hex: 0x371B) **RST Min Sect Reptn Int**

Description: RST minimum section repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14108 (Hex: 0x371C) **TDT Min Sect Reptn Int**

Description: TDT minimum section repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14110 (Hex: 0x371E) **TOT Min Sect Reptn Int**

Description: TOT minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14111 (Hex: 0x371F) **TOT Max Sect Reptn Int**

Description: TOT maximum repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14112 (Hex: 0x3720) **BAT Min Sect Reptn Int**

Description: BAT minimum section repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14113 (Hex: 0x3721) **BAT Max Subtable Reptn Int**

Description: BAT maximum subtable repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14119 (Hex: 0x3727) **EIT–0,1,2,3 Max Sect Reptn Int**

Description: ATSC EIT–0, EIT–1, EIT–2 and EIT–3 maximum section repetition interval

Applicable Standards: ATSC

Associated Parameters: No parameters required

14120 (Hex: 0x3728) **2.5 PTS**

Description: 2.5 PTS

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:

PP5 Max PTS repetition interval

14121 (Hex: 0x3729) **EVID_INDIVIDUAL_NIT_ACTUAL_MIN_SECTION_R**

Description: Ind NIT actual_network minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14122 (Hex: 0x372A) **EVID_INDIVIDUAL_NIT_ACTUAL_MAX_SUBTABLE**

Description: Ind NIT actual_network maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14123 (Hex: 0x372B) **EVID_INDIVIDUAL_NIT_OTHER_MIN_SECTION_RI**

Description: Ind NIT other_network minimum section repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14124 (Hex: 0x372C) **EVID_INDIVIDUAL_NIT_OTHER_MAX_SUBTABLE_**

Description: Ind NIT other_network maximum subtable repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14125 (Hex: 0x372D) **EVID_INDIVIDUAL_NIT_OTHER_MAX_SECTION_RI**

Description: Ind NIT other_network maximum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14126 (Hex: 0x372E) **EVID_INDIVIDUAL_SDT_ACTUAL_MIN_SECTION_**

Description: Ind SDT actual_transport_stream minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14127 (Hex: 0x372F) **EVID_INDIVIDUAL_SDT_ACTUAL_MAX_SUBTABL**

Description: Ind SDT actual_transport_stream maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14128 (Hex: 0x3730) **EVID_INDIVIDUAL_SDT_OTHER_MIN_SECTION_RI**

Description: Ind SDT other_transport_stream minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14129 (Hex: 0x3731) **EVID_INDIVIDUAL_SDT_OTHER_MAX_SUBTABLE**

Description: Ind SDT other_transport_stream maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14130 (Hex: 0x3732) **EVID_INDIVIDUAL_SDT_OTHER_MAX_SECTION_R**

Description: Ind SDT other_transport_stream maximum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14131 (Hex: 0x3733) **EVID_INDIVIDUAL_DVBEIT_ACTUAL_PF_MIN_SEC**

Description: Ind DVB EIT actual_transport_stream present/following minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14132 (Hex: 0x3734) **EVID_INDIVIDUAL_DVBEIT_ACTUAL_PF_MAX_SU**

Description: Ind DVB EIT actual_transport_stream present/following maximum subtable repetition

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14133 (Hex: 0x3735) **EVID_INDIVIDUAL_DVBEIT_OTHER_PF_MIN_SECT**

Description: Ind DVB EIT other_transport_stream present/following minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14134 (Hex: 0x3736) **EVID_INDIVIDUAL_DVBEIT_OTHER_PF_MAX_SUB**

Description: Ind DVB EIT other_transport_stream present/following maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14135 (Hex: 0x3737) **EVID_INDIVIDUAL_DVBEIT_ACTUAL_S_MIN_SEC**

Description: Ind DVB EIT actual_transport_stream schedule minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14136 (Hex: 0x3738) **EVID_INDIVIDUAL_DVBEIT_ACTUAL_S_MAX_SUB**

Description: Ind DVB EIT actual_transport_stream schedule maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14137 (Hex: 0x3739) **EVID_INDIVIDUAL_DVBEIT_OTHER_S_MIN_SECTI**

Description: Ind DVB EIT other_transport_stream schedule minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14138 (Hex: 0x373A) **EVID_INDIVIDUAL_DVBEIT_OTHER_S_MAX_SUBT**

Description: Ind DVB EIT other_transport_stream schedule maximum subtable repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14139 (Hex: 0x373B) **EVID_INDIVIDUAL_RST_MIN_SECTION_RI**

Description: Ind RST minimum section repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14140 (Hex: 0x373C) **EVID_INDIVIDUAL_TDT_MIN_SECTION_RI**

Description: Ind TDT minimum section repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14141 (Hex: 0x373D) **EVID_INDIVIDUAL_TOT_MIN_SECTION_RI**

Description: Ind TOT minimum section repetition interval

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14142 (Hex: 0x373E) **EVID_INDIVIDUAL_BAT_MIN_SECTION_RI**

Description: Ind BAT minimum section repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14143 (Hex: 0x373F) **EVID_INDIVIDUAL_BAT_MAX_SUBTABLE_RI**

Description: Ind BAT maximum subtable repetition interval

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14145 (Hex: 0x3741) **EVID_INDIVIDUAL_SDTT_MIN_SECTION_RI**

Description: Ind SDTT minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14146 (Hex: 0x3742) **EVID_INDIVIDUAL_SDTT_MAX_SUBTABLE_RI**

Description: Ind SDTT maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14147 (Hex: 0x3743) **EVID_INDIVIDUAL_BIT_MIN_SECTION_RI**

Description: Ind BIT minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14148 (Hex: 0x3744) **EVID_INDIVIDUAL_BIT_MAX_SUBTABLE_RI**

Description: Ind BIT maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14155 (Hex: 0x374B) **EVID_INDIVIDUAL_VCT_MAX_SUBTABLE_RI**

Description: Ind VCT maximum subtable repetition error

Applicable Standards: ATSC

Associated Parameters: No parameters required

14156 (Hex: 0x374C) **VCT Max Sect Reptn Int**

Description: VCT maximum section repetition error

Applicable Standards: ATSC

Associated Parameters:

PS91 VCT max section repetition interval

14157 (Hex: 0x374D) **EVID_INDIVIDUAL_CDT_MAX_SUBTABLE_RI**

Description: Ind CDT maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14158 (Hex: 0x374E) **EVID_INDIVIDUAL_CDT_MIN_SECTION_RI**

Description: Ind CDT minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14160 (Hex: 0x3750) **PAT Missing**

Description: PAT Table not detected

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14161 (Hex: 0x3751) **NIT Actual Missing**

Description: NIT Table not detected

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14162 (Hex: 0x3752) **SDT Actual Missing**

Description: SDT Table not detected

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14163 (Hex: 0x3753) **EIT Actual PF Missing**

Description: EIT Table not detected

Applicable Standards: MPEG, DVB, ISDB, Chinese

Associated Parameters: No parameters required

14164 (Hex: 0x3754) **TDT Missing**

Description: TDT Table not detected

Applicable Standards: MPEG, DVB, Chinese

Associated Parameters: No parameters required

14165 (Hex: 0x3755) **MGT Missing**

Description: MGT Table not detected

Applicable Standards: ATSC

Associated Parameters: No parameters required

14166 (Hex: 0x3756) **VCT Missing**

Description: VCT Table not detected

Applicable Standards: ATSC

Associated Parameters: No parameters required

14167 (Hex: 0x3757) **RRT Missing**

Description: RRT Table not detected

Applicable Standards: ATSC

Associated Parameters: No parameters required

14168 (Hex: 0x3758) **STT Missing**

Description: STT Table not detected

Applicable Standards: ATSC

Associated Parameters: No parameters required

14169 (Hex: 0x3759) **EIT–0,1,2,3 Missing**

Description: ATSCEIT0123 Tables not detected

Applicable Standards: ATSC

Associated Parameters: No parameters required

14172 (Hex: 0x375C) **M–EIT Max Subtable Reptn Int**

Description: M–EIT Max Subtable Reptn Int

Applicable Standards: ISDB

Associated Parameters: No parameters required

14173 (Hex: 0x375D) **M–EIT Min Sect Reptn Int**

Description: M–EIT Min Sect Reptn Int

Applicable Standards: ISDB

Associated Parameters: No parameters required

14174 (Hex: 0x375E) **L–EIT Max Subtable Reptn Int**

Description: L–EIT Max Subtable Reptn Int

Applicable Standards: ISDB

Associated Parameters: No parameters required

14175 (Hex: 0x375F) **L–EIT Min Sect Reptn Int**

Description: L–EIT Min Sect Reptn Int

Applicable Standards: ISDB

Associated Parameters: No parameters required

14176 (Hex: 0x3760) **SDTT Min Sect Reptn Int**

Description: SDTT minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14177 (Hex: 0x3761) **SDTT Max Subtable Reptn Int**

Description: SDTT maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14178 (Hex: 0x3762) **BIT Min Section Reptn Int**

Description: BIT minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14179 (Hex: 0x3763) **BIT Max Subtable Reptn Int**

Description: BIT maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14192 (Hex: 0x3770) **SDTT**

Description: Collection event for all SDTT errors

Applicable Standards: ISDB

Associated Parameters:

PS70	SDTT obsolescence count
PS71	SDTT max repetition interval
PS86	SDTT min section repetition interval

14193 (Hex: 0x3771) **BIT**

Description: Collection event for all BIT errors

Applicable Standards: ISDB

Associated Parameters:

PS72	BIT obsolescence count
PS73	BIT max subtable repetition interval
PS87	BIT min section repetition interval

14197 (Hex: 0x3775) **CDT Min Sect Reptn Int**

Description: CDT minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14198 (Hex: 0x3776) **CDT Max Subtable Reptn Int**

Description: CDT maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14199 (Hex: 0x3777) **CDT**

Description: Collection event for all CDT errors

Applicable Standards: ISDB

Associated Parameters:

PS94	CDT obsolescence count
PS95	CDT max subtable repetition interval
PS96	CDT min section repetition interval

14208 (Hex: 0x3780) **SDTT (Table ID)**

Description: SDTT Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

14209 (Hex: 0x3781) **BIT (Table ID)**

Description: BIT Err Table Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

14225 (Hex: 0x3791) **SDTT Syntax**

Description: Syntax error in SDTT table

Applicable Standards: ISDB

Associated Parameters: No parameters required

14226 (Hex: 0x3792) **BIT Syntax**

Description: Syntax error in BIT table

Applicable Standards: ISDB

Associated Parameters: No parameters required

14233 (Hex: 0x3799) **CDT Syntax**

Description: Syntax error in CDT table

Applicable Standards: ISDB

Associated Parameters: No parameters required

14234 (Hex: 0x379A) **ISDBT Guard Interval Consistency**

Description: ISDBT Guard Interval Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14235 (Hex: 0x379B) **ISDBT Transmission Mode Consistency**

Description: ISDBT Transmission Mode Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14236 (Hex: 0x379C) **ISDBT Partial Reception Consistency**

Description: ISDBT Partial Reception Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14237 (Hex: 0x379D) **ISDBT Modulation Consistency**

Description: ISDBT Modulation Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14238 (Hex: 0x379E) **ISDBT Mode/Guard Interval Validation**

Description: ISDBT Mode/Guard Interval Validation

Applicable Standards: ISDB

Associated Parameters: No parameters required

14239 (Hex: 0x379F) **ISDBT Time Interleaving Validation**

Description: ISDBT Time Interleaving Validation

Applicable Standards: ISDB

Associated Parameters: No parameters required

14240 (Hex: 0x37A0) **ISDBT Modulation/Error Compensation Validation**

Description: ISDBT Modulation/Error Compensation Validation

Applicable Standards: ISDB

Associated Parameters: No parameters required

14241 (Hex: 0x37A1) **ISDBT NIT Terrestrial Delivery Validation**

Description: ISDBT NIT Terrestrial Delivery Validation

Applicable Standards: ISDB

Associated Parameters: No parameters required

14242 (Hex: 0x37A2) **ISDBT NIT Service List Consistency**

Description: ISDBT NIT Service Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14243 (Hex: 0x37A3) **ISDBT Partial Reception/TS Information Consistency**

Description: ISDBT Partial Reception/TS Information Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14245 (Hex: 0x37A5) **ISDBT EIT Type Content Check**

Description: ISDBT NIT Service Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14246 (Hex: 0x37A6) **ISDBT EIT Unique Event Id**

Description: ISDBT EIT Unique Event Id

Applicable Standards: ISDB

Associated Parameters: No parameters required

14247 (Hex: 0x37A7) **ISDBT SDT/EIT Consistency**

Description: ISDBT SDT/EIT Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14248 (Hex: 0x37A8) **EVID_ISDBT_INDIVIDUAL_SDT_EIT_CONSISTENC**

Description: Ind ISDBT SDT/EIT Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14250 (Hex: 0x37AA) **ISBBT NIT/EIT Consistency**

Description: ISDBT NIT/EIT Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14251 (Hex: 0x37AB) **EVID_ISDBT_INDIVIDUAL_NIT_EIT_CONSISTENCY**

Description: Ind ISDBT NIT/EIT Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14257 (Hex: 0x37B1) **ISDBT NIT/SDT Consistency**

Description: ISDBT NIT/SDT Consistency

Applicable Standards: ISDB

Associated Parameters: No parameters required

14258 (Hex: 0x37B2) **ISDBT IIP MCCI CRC**

Description: ISDBT IIP MCCI CRC

Applicable Standards: ISDB

Associated Parameters: No parameters required

14259 (Hex: 0x37B3) **ISDBT IIP SFN Sync CRC**

Description: ISDBT IIP SFN Sync CRC

Applicable Standards: ISDB

Associated Parameters: No parameters required

14260 (Hex: 0x37B4) **ISDBT Any IIP CRC**

Description: ISDBT Any IIP CRC

Applicable Standards: ISDB

Associated Parameters: No parameters required

14261 (Hex: 0x37B5) **H–EIT basic schedule max subtable RI for TV**

Description: H–EIT basic schedule maximum subtable repetition interval for television services

Applicable Standards: ISDB

Associated Parameters:

PS117	EIT basic schedule (TV) number of segments in cycle group 1
PS118	EIT basic schedule (TV) number of segments in cycle group 2
PS119	EIT basic schedule (TV) number of segments in cycle group 3
PS135	EIT basic schedule (TV) max basic repetition interval
PS136	EIT basic schedule (TV) max cycle group 1 repetition interval
PS137	EIT basic schedule (TV) max cycle group 2 repetition interval

PS138 EIT basic schedule (TV) max cycle group 3 repetition interval
PS160 EIT basic schedule (TV) range

14262 (Hex: 0x37B6) H–EIT basic schedule max subtable RI for audio

Description: H–EIT basic schedule maximum subtable repetition interval for audio services

Applicable Standards: ISDB

Associated Parameters:

PS120 EIT basic schedule (Sound) number of segments in cycle group 1
PS121 EIT basic schedule (Sound) number of segments in cycle group 2
PS122 EIT basic schedule (Sound) number of segments in cycle group 3
PS139 EIT basic schedule (Sound) max basic repetition interval
PS140 EIT basic schedule (Sound) max cycle group 1 repetition interval
PS141 EIT basic schedule (Sound) max cycle group 2 repetition interval
PS142 EIT basic schedule (Sound) max cycle group 3 repetition interval
PS161 EIT basic schedule (Sound) range

14263 (Hex: 0x37B7) H–EIT basic schedule max subtable RI for data

Description: H–EIT basic schedule maximum subtable repetition interval for data services

Applicable Standards: ISDB

Associated Parameters:

PS123 EIT basic schedule (Data) number of segments in cycle group 1
PS124 EIT basic schedule (Data) number of segments in cycle group 2
PS125 EIT basic schedule (Data) number of segments in cycle group 3
PS143 EIT basic schedule (Data) max basic repetition interval
PS144 EIT basic schedule (Data) max cycle group 1 repetition interval
PS145 EIT basic schedule (Data) max cycle group 2 repetition interval
PS146 EIT basic schedule (Data) max cycle group 3 repetition interval
PS162 EIT basic schedule (Data) range

14264 (Hex: 0x37B8) H–EIT extended schedule max subtable RI for TV

Description: H–EIT extended schedule maximum subtable repetition interval for television services

Applicable Standards: ISDB

Associated Parameters:

PS126 EIT extended schedule (TV) number of segments in cycle group 1
PS127 EIT extended schedule (TV) number of segments in cycle group 2
PS128 EIT extended schedule (TV) number of segments in cycle group 3
PS147 EIT extended schedule (TV) max basic repetition interval
PS148 EIT extended schedule (TV) max cycle group 1 repetition interval
PS149 EIT extended schedule (TV) max cycle group 2 repetition interval
PS150 EIT extended schedule (TV) max cycle group 3 repetition interval
PS163 EIT extended schedule (TV) range

14265 (Hex: 0x37B9) H–EIT extended schedule max subtable RI for audio

Description: H–EIT basic schedule maximum subtable repetition interval for audio services

Applicable Standards: ISDB

Associated Parameters:

PS129 EIT extended schedule (Sound) number of segments in cycle group 1
PS130 EIT extended schedule (Sound) number of segments in cycle group 2
PS131 EIT extended schedule (Sound) number of segments in cycle group 3
PS151 EIT extended schedule (Sound) max basic repetition interval
PS152 EIT extended schedule (Sound) max cycle group 1 repetition interval
PS153 EIT extended schedule (Sound) max cycle group 2 repetition interval
PS154 EIT extended schedule (Sound) max cycle group 3 repetition interval
PS164 EIT extended schedule (Sound) range

14266 (Hex: 0x37BA) H–EIT extended schedule max subtable RI for data

Description: H–EIT basic schedule maximum subtable repetition interval for data services

Applicable Standards: ISDB

Associated Parameters:

PS132 EIT extended schedule (Data) number of segments in cycle group 1
PS133 EIT extended schedule (Data) number of segments in cycle group 2
PS134 EIT extended schedule (Data) number of segments in cycle group 3

PS155 EIT extended schedule (Data) max basic repetition interval
PS156 EIT extended schedule (Data) max cycle group 1 repetition interval
PS157 EIT extended schedule (Data) max cycle group 2 repetition interval
PS158 EIT extended schedule (Data) max cycle group 3 repetition interval
PS165 EIT extended schedule (Data) range

14273 (Hex: 0x37C1) ISDBT IIP Branching

Description: ISDBT IIP Branching

Applicable Standards: ISDB

Associated Parameters: No parameters required

14274 (Hex: 0x37C2) EVIDISDBT IIP Min RI

Description: ISDBT IIP Error

Applicable Standards: ISDB

Associated Parameters:
PS166 IIP minimum repetition interval

14275 (Hex: 0x37C3) ISDBT TMCC Id Error

Description: ISDBT TMCC Id Error

Applicable Standards: ISDB

Associated Parameters: No parameters required

14288 (Hex: 0x37D0) EVID_INDIVIDUAL_HEIT_BASIC_SCD_TV_MAX_RI

Description: Ind H−EIT basic schedule maximum subtable repetition interval for television services Cycle Group 1.

Applicable Standards: ISDB

Associated Parameters: No parameters required

14289 (Hex: 0x37D1) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_TV_MAX_RI**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for television services Cycle Group 2

Applicable Standards: ISDB

Associated Parameters: No parameters required

14290 (Hex: 0x37D2) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_TV_MAX_RI**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for television services Cycle Group 3

Applicable Standards: ISDB

Associated Parameters: No parameters required

14291 (Hex: 0x37D3) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_TV_MAX_RI**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for television services Cycle Group Base

Applicable Standards: ISDB

Associated Parameters: No parameters required

14292 (Hex: 0x37D4) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_AUDIO_MA**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for audio services Cycle Group 1

Applicable Standards: ISDB

Associated Parameters: No parameters required

14293 (Hex: 0x37D5) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_AUDIO_MA**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for audio services Cycle Group 2

Applicable Standards: ISDB

Associated Parameters: No parameters required

14294 (Hex: 0x37D6) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_AUDIO_MA**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for audio services Cycle Group 3

Applicable Standards: ISDB

Associated Parameters: No parameters required

14295 (Hex: 0x37D7) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_AUDIO_MA**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for audio services Cycle Group Base

Applicable Standards: ISDB

Associated Parameters: No parameters required

14296 (Hex: 0x37D8) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_DATA_MAX**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for data services Cycle Group 1

Applicable Standards: ISDB

Associated Parameters: No parameters required

14297 (Hex: 0x37D9) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_DATA_MAX**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for data services Cycle Group 2

Applicable Standards: ISDB

Associated Parameters: No parameters required

14298 (Hex: 0x37DA) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_DATA_MAX**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for data services Cycle Group 3

Applicable Standards: ISDB

Associated Parameters: No parameters required

14299 (Hex: 0x37DB) **EVID_INDIVIDUAL_HEIT_BASIC_SCD_DATA_MAX**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for data services Cycle Group Base

Applicable Standards: ISDB

Associated Parameters: No parameters required

14300 (Hex: 0x37DC) **EVID_INDIVIDUAL_HEIT_EXT_SCD_TV_MAX_RI_C**

Description: Ind H−EIT extended schedule maximum subtable repetition interval for television services Cycle Group 1

Applicable Standards: ISDB

Associated Parameters: No parameters required

14301 (Hex: 0x37DD) **EVID_INDIVIDUAL_HEIT_EXT_SCD_TV_MAX_RI_C**

Description: Ind H−EIT extended schedule maximum subtable repetition interval for television services Cycle Group 2

Applicable Standards: ISDB

Associated Parameters: No parameters required

14302 (Hex: 0x37DE) **EVID_INDIVIDUAL_HEIT_EXT_SCD_TV_MAX_RI_C**

Description: Ind H−EIT extended schedule maximum subtable repetition interval for television services Cycle Group 3

Applicable Standards: ISDB

Associated Parameters: No parameters required

14303 (Hex: 0x37DF) **EVID_INDIVIDUAL_HEIT_EXT_SCD_TV_MAX_RI_B**

Description: Ind H−EIT extended schedule maximum subtable repetition interval for television services Cycle Group Base

Applicable Standards: ISDB

Associated Parameters: No parameters required

14304 (Hex: 0x37E0) **EVID_INDIVIDUAL_HEIT_EXT_SCD_AUDIO_MAX_**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for audio services Cycle Group 1

Applicable Standards: ISDB

Associated Parameters: No parameters required

14305 (Hex: 0x37E1) **EVID_INDIVIDUAL_HEIT_EXT_SCD_AUDIO_MAX_**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for audio services Cycle Group 2

Applicable Standards: ISDB

Associated Parameters: No parameters required

14306 (Hex: 0x37E2) **EVID_INDIVIDUAL_HEIT_EXT_SCD_AUDIO_MAX_**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for audio services Cycle Group 3

Applicable Standards: ISDB

Associated Parameters: No parameters required

14307 (Hex: 0x37E3) **EVID_INDIVIDUAL_HEIT_EXT_SCD_AUDIO_MAX_**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for audio services Cycle Group Base

Applicable Standards: ISDB

Associated Parameters: No parameters required

14308 (Hex: 0x37E4) **EVID_INDIVIDUAL_HEIT_EXT_SCD_DATA_MAX_R**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for data services Cycle Group 1

Applicable Standards: ISDB

Associated Parameters: No parameters required

14309 (Hex: 0x37E5) **EVID_INDIVIDUAL_HEIT_EXT_SCD_DATA_MAX_R**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for data services Cycle Group 2

Applicable Standards: ISDB

Associated Parameters: No parameters required

14310 (Hex: 0x37E6) **EVID_INDIVIDUAL_HEIT_EXT_SCD_DATA_MAX_R**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for data services Cycle Group 3

Applicable Standards: ISDB

Associated Parameters: No parameters required

14311 (Hex: 0x37E7) **EVID_INDIVIDUAL_HEIT_EXT_SCD_DATA_MAX_R**

Description: Ind H−EIT basic schedule maximum subtable repetition interval for data services Cycle Group Base

Applicable Standards: ISDB

Associated Parameters: No parameters required

14312 (Hex: 0x37E8) **SDTT(H) min section RI**

Description: SDTT(H) minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14313 (Hex: 0x37E9) **SDTT(H) max subtable RI**

Description: SDTT(H) maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14314 (Hex: 0x37EA) **EVID_INDIVIDUAL_HSDTT_MIN_SECTION_RI**

Description: Ind SDTT(H) minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14315 (Hex: 0x37EB) **EVID_INDIVIDUAL_HSDTT_MAX_SUBTABLE_RI**

Description: Ind SDTT(H) maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14316 (Hex: 0x37EC) **SDTT(L) min section RI**

Description: SDTT(L) minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14317 (Hex: 0x37ED) **SDTT(L) max subtable RI**

Description: SDTT(L) maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14318 (Hex: 0x37EE) **EVID_INDIVIDUAL_LSDTT_MIN_SECTION_RI**

Description: Ind SDTT(L) minimum section repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14319 (Hex: 0x37EF) **EVID_INDIVIDUAL_LSDTT_MAX_SUBTABLE_RI**

Description: Ind SDTT(L) maximum subtable repetition interval

Applicable Standards: ISDB

Associated Parameters: No parameters required

14320 (Hex: 0x37F0) **SDTT(H) Syntax**

Description: SDTT(H) Syntax error

Applicable Standards: ISDB

Associated Parameters: No parameters required

14321 (Hex: 0x37F1) **SDTT(L) Syntax**

Description: SDTT(L) Syntax error

Applicable Standards: ISDB

Associated Parameters: No parameters required

14322 (Hex: 0x37F2) **Other**

Description: Other

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14323 (Hex: 0x37F3) **Priority 1**

Description: Priority 1

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14324 (Hex: 0x37F4) **Priority 2**

Description: Priority 2

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14325 (Hex: 0x37F5) **Priority 3**

Description: Priority 3

Applicable Standards: MPEG, DVB, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14326 (Hex: 0x37F6) **Table Tests**

Description: Table Tests

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14327 (Hex: 0x37F7) **TR 101 290**

Description: TR 101 290

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14328 (Hex: 0x37F8) **ISDB Tests**

Description: ISDB Tests

Applicable Standards: ISDB

Associated Parameters: No parameters required

14329 (Hex: 0x37F9) **Miscellaneous**

Description: Miscellaneous

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14331 (Hex: 0x37FB) **Table Id Error**

Description: Table Id Error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese

Associated Parameters: No parameters required

14332 (Hex: 0x37FC) **Timer Error**

Description: Timer Error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese

Associated Parameters: No parameters required

14333 (Hex: 0x37FD) **HEIT Schedule**

Description: HEIT Schedule

Applicable Standards: ISDB

Associated Parameters: No parameters required

14336 (Hex: 0x3800) **EVID_RF_LOCK**

Description: RF out of lock error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS200 Lock Limit

14337 (Hex: 0x3801) **EVID_RF_MER**

Description: RF MER limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS201 MER abs limit

14338 (Hex: 0x3802) **EVID_RF_MER_DRIFT**

Description: RF MER drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS202 MER drift Limit

14339 (Hex: 0x3803) **EVID_RF_EVM**

Description: RF EVM limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS203 EVM abs limit

14340 (Hex: 0x3804) **EVID_RF_EVM_DRIFT**

Description: RF EVM drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS204 EVM drift limit

14341 (Hex: 0x3805) **EVID_RF_BER_PRE_RS**

Description: RF pre RS BER limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS205 BER Pre RS abs

14342 (Hex: 0x3806) **EVID_RF_BER_PRE_RS_DRIFT**

Description: RF pre RS BER drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS206 BER pre RS drift

14343 (Hex: 0x3807) **EVID_RF_BER_PRE_VITERBI**

Description: RF pre Viterbi limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS207 BER PRE Viterbi abs Limit

14344 (Hex: 0x3808) **EVID_RF_BER_PRE_VITERBI_DRIFT**

Description: RF pre Viterbi drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS208 BER pre viterbi drift limit

14345 (Hex: 0x3809) **EVID_RF_BER_POST_RS**

Description: RF post RS BER limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS209 BER post RS abs limit

14346 (Hex: 0x380A) **EVID_RF_BER_POST_RS_DRIFT**

Description: RF post RS BER drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS210 BER Post RS drift limit

14347 (Hex: 0x380B) **EVID_RF_TEF**

Description: RF TEF rate limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS211 TEF abs limit

14348 (Hex: 0x380C) **EVID_RF_TEF_DRIFT**

Description: RF TEF rate drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS212 TEF drift limit

14349 (Hex: 0x380D) **EVID_RF_POWER_HIGH**

Description: RF High Power limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS213 power high limit

14350 (Hex: 0x380E) **EVID_RF_POWER_LOW**

Description: RF Low Power limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS214 power low limit

14351 (Hex: 0x380F) **EVID_RF_POWER_DRIFT**

Description: RF Power drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS215 power drift limit

14352 (Hex: 0x3810) **EVID_RF_SNR**

Description: RF SNR limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS216 SNR limit

14353 (Hex: 0x3811) **EVID_RF_SNR_DRIFT**

Description: RF SNR drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS217 SNR drift

14354 (Hex: 0x3812) **EVID_RF_CNR**

Description: RF CNR limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS218 CNR limit

14355 (Hex: 0x3813) **EVID_RF_CNR_DRIFT**

Description: RF CNR drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS219 CNR drift

14356 (Hex: 0x3814) **EVID_RF_CARRIER_OFFSET**

Description: RF Carrier offset limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS220 carrier offset limit

14357 (Hex: 0x3815) **EVID_RF_CARRIER_OFFSET_DRIFT**

Description: RF Carrier offset drift limit error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS221 carrier offset drift limit

14358 (Hex: 0x3816) **RF Metric Errors**

Description: RF Metric Errors

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

14371 (Hex: 0x3823) **DPI/SIT Single PID test**

Description: SCTE 35 2001 limit of 1 DPI PIDs per program

Applicable Standards: DVB

Associated Parameters: No parameters required

14372 (Hex: 0x3824) **DPI/SIT Multi PID Test**

Description: SCTE 35 2004 limit of 8 DPI PIDs per program

Applicable Standards: DVB

Associated Parameters: No parameters required

14373 (Hex: 0x3825) **DPI/SIT Ecryption failure**

Description: Cannot decode encrypted DPI messages

Applicable Standards: DVB

Associated Parameters: No parameters required

14374 (Hex: 0x3826) **DPI/SIT Missing**

Description: Signalled DPI information has not arrived

Applicable Standards: DVB

Associated Parameters:
PS176 Splice information table missing test interval

14375 (Hex: 0x3827) **DPI/SIT Missing**

Description: Signalled DPI information has not arrived

Applicable Standards: DVB

Associated Parameters: No parameters required

14376 (Hex: 0x3828) **DPI/SIT Syntax error**

Description: DPI table syntax error

Applicable Standards: DVB

Associated Parameters: No parameters required

14377 (Hex: 0x3829) **DPI/SIT Max repetion rate error**

Description: DPI information repetion rate is too low

Applicable Standards: DVB

Associated Parameters:
PS177 Splice information table max repetition interval

14378 (Hex: 0x382A) **Any DPI/SIT Errors**

Description: DPI heading for DPI errors not set/sent

Applicable Standards: DVB

Associated Parameters: No parameters required

14384 (Hex: 0x3830) **PIM Message Missing**

Description: PIM DCII Message not detected

Applicable Standards: DCII

Associated Parameters:

PS243 PIM max repetition interval
PS244 PIM obsolescence count

14385 (Hex: 0x3831) **PNM Message Missing**

Description: PNM DCII Message not detected

Applicable Standards: DCII

Associated Parameters:

PS245 PNM max repetition interval
PS246 PNM obsolescence count

14386 (Hex: 0x3832) **NIM Message Missing**

Description: NIM DCII Message not detected

Applicable Standards: DCII

Associated Parameters:

PS247 NIM max repetition interval
PS248 NIM obsolescence count

14387 (Hex: 0x3833) **NTM Message Missing**

Description: NTM DCII Message not detected

Applicable Standards: DCII

Associated Parameters:

PS249 NTM max repetition interval
PS250 NTM obsolescence count

14388 (Hex: 0x3834) **VCM Message Missing**

Description: VCM DCII Message not detected

Applicable Standards: DCII

Associated Parameters:
PS251 VCM max repetition interval
PS252 VCM obsolescence count

14389 (Hex: 0x3835) **STM Message Missing**

Description: STM DCII Message not detected

Applicable Standards: DCII

Associated Parameters:
PS253 STM max repetition interval
PS254 STM obsolescence count

14592 (Hex: 0x3900) **Script Validation Error**

Description: Script Validation Error

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese

Associated Parameters: No parameters required

14593 (Hex: 0x3901) **Script Conformance Warning**

Description: Script Conformance Warning

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese

Associated Parameters: No parameters required

14594 (Hex: 0x3902) **EventID_0x3902**

Description: EventID_0x3902

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese

Associated Parameters: No parameters required

14595 (Hex: 0x3903) **EventID_0x3903**

Description: EventID_0x3903

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese

Associated Parameters: No parameters required

20992 (Hex: 0x5200) **Service Log Overflow**

Description: Svc Log info not collected fast enough, resolution reduced

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

20993 (Hex: 0x5201) **Processing Strained**

Description: Occurs when the monitoring system has to discard some information in order to keep up with events on the Transport Stream; however, monitoring continues.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

20994 (Hex: 0x5202) **Processing Overwhelmed**

Description: Occurs when, in spite of discarding some information, the monitoring system is unable to keep up with the Transport Stream. Results from the monitoring should be considered unreliable in this state. The monitoring system will recover when conditions improve.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

20995 (Hex: 0x5203) **Service Information Strained**

Description: In the MTM400, received tables are held in a fixed sized database. This is large enough for the majority of streams, but if the stream contains too much SI, some will be discarded and this test will indicate an error. The tables are discarded in a priority order that ensures that analysis is very unlikely to be affected. Once raised the priority will not fall until either the stream is reapplied, or a manual reset of this test is performed.

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

20996 (Hex: 0x5204) **EVID_TRAPS_THROTTLED**

Description: Requested Traps exceed throttle limit

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

24576 (Hex: 0x6000) **Template Header Error**

Description: Error in header block of template

Applicable Standards: DVB

Associated Parameters: No parameters required

24592 (Hex: 0x6010) **Template TS Err**

Description: Template Error in Transport Stream

Applicable Standards: DVB

Associated Parameters: No parameters required

24608 (Hex: 0x6020) **Template NetID Err**

Description: Template Error in Network ID

Applicable Standards: DVB

Associated Parameters: No parameters required

24624 (Hex: 0x6030) **Template Orig NetID Error**

Description: Template Error in Original Network ID

Applicable Standards: DVB

Associated Parameters: No parameters required

24640 (Hex: 0x6040) **Template Service Number Error**

Description: Template Error in Program Number

Applicable Standards: DVB

Associated Parameters: No parameters required

24832 (Hex: 0x6100) **Template Service Error**

Description: Error in any service header block of template

Applicable Standards: DVB

Associated Parameters: No parameters required

24848 (Hex: 0x6110) **Template Service PCR Error**

Description: Template Error with Service PCR PID

Applicable Standards: DVB

Associated Parameters: No parameters required

24864 (Hex: 0x6120) **Template Service Type Error**

Description: Template Error with Service Type

Applicable Standards: DVB

Associated Parameters: No parameters required

24880 (Hex: 0x6130) **Template Service Name Err**

Description: Template Error with Service Name

Applicable Standards: DVB

Associated Parameters: No parameters required

24896 (Hex: 0x6140) **Template Service Constraint Err**

Description: Template Error with Service Constraint

Applicable Standards: DVB

Associated Parameters: No parameters required

24912 (Hex: 0x6150) **Template Service Pid Number Err**

Description: Template Error with Service PID Number

Applicable Standards: DVB

Associated Parameters: No parameters required

25088 (Hex: 0x6200) **Template PID Error**

Description: Error in any pid block of template

Applicable Standards: DVB

Associated Parameters: No parameters required

25104 (Hex: 0x6210) **Template Pid CA Err**

Description: Template Error with PID CA Descriptor

Applicable Standards: DVB

Associated Parameters: No parameters required

25120 (Hex: 0x6220) **Template PID Scramble Err**

Description: Template Error with PID Scrambled

Applicable Standards: DVB

Associated Parameters: No parameters required

25136 (Hex: 0x6230) **Template PID Stream Type Err**

Description: Template Error with PID Stream Type

Applicable Standards: DVB

Associated Parameters: No parameters required

25152 (Hex: 0x6240) **Template PID Constraint Err**

Description: Template Error with PID constraint

Applicable Standards: DVB

Associated Parameters: No parameters required

25344 (Hex: 0x6300) **Template Rating Error**

Description: Error in any rating block of template

Applicable Standards: DVB

Associated Parameters: No parameters required

25345 (Hex: 0x6301) **EVID_INDIVIDUAL_TEMPLATE_RATING_ERR**

Description: Template DVB/ATSC Ratings error

Applicable Standards: DVB

Associated Parameters: No parameters required

25360 (Hex: 0x6310) **Template Rating Region Err**

Description: Template Error with Rating Region

Applicable Standards: DVB

Associated Parameters: No parameters required

25376 (Hex: 0x6320) **Template Rating Guidance Err**

Description: Template Error with Rating Guidance

Applicable Standards: DVB

Associated Parameters: No parameters required

28671 (Hex: 0x6FFF) **Template Master Error**

Description: Any Template Error

Applicable Standards: DVB

Associated Parameters: No parameters required

45072 (Hex: 0xB010) **EVID_SCHEDULER**

Description: Schedule/Holdoff manager (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

45312 (Hex: 0xB100) **EVID_RECORDING_COMPLETE**

Description: A stream recording has been completed (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

49153 (Hex: 0xC001) **Program Information**

Description: Program Information PAT/PMT version change (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

49154 (Hex: 0xC002) **RF_MER_W**

Description: RF MER limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS222 MER abs warning limit

49155 (Hex: 0xC003) **RF_MER_DRIFT_W**

Description: RF MER drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS223 MER drift warning limit

49156 (Hex: 0xC004) **RF_EVM_W**

Description: RF EVM limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS224 EVM warning limit

49157 (Hex: 0xC005) **RF_EVM_DRIFT_W**

Description: RF EVM drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS225 EVM drift warning limit

49158 (Hex: 0xC006) **RF_BER_PRE_RS_W**

Description: RF pre RS BER limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS226 BER PRE RS warning limit

49159 (Hex: 0xC007) **RF_BER_PRE_RS_DRIFT_W**

Description: RF pre RS BER drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS227 BER PRE RS drift warning

49160 (Hex: 0xC008) **RF_BER_PRE_VITERBI_W**

Description: RF pre Viterbi BER limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS228 BER PRE viterbi warning limit

49161 (Hex: 0xC009) **RF_BER_PRE_VITERBI_DRIFT_W**

Description: RF pre Viterbi BER drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS229 BER PRE viterbi drift warning limit

49162 (Hex: 0xC00A) **RF_BER_POST_RS_W**

Description: RF post RS BER limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS230 BER POST RS warning limit

49163 (Hex: 0xC00B) **RF_BER_POST_RS_DRIFT_W**

Description: RF post RS BER drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS231 BER POST RS drift warning limit

49164 (Hex: 0xC00C) **RF_TEF_W**

Description: RF TEF rate limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS232 TEF rate warning limit

49165 (Hex: 0xC00D) **RF_TEF_DRIFT_W**

Description: RF TEF rate drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS233 TEF rate drift warning limit

49166 (Hex: 0xC00E) **RF_POWER_HIGH_W**

Description: RF High Power limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS234 Power high warning limit

49167 (Hex: 0xC00F) **RF_POWER_LOW_W**

Description: RF Low Power limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS235 Power low warning limit

49168 (Hex: 0xC010) **RF_POWER_DRIFT_W**

Description: RF Power drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS236 power drift warning limit

49169 (Hex: 0xC011) **RF_SNR_W**

Description: RF SNR limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS237 SNR warning limit

49170 (Hex: 0xC012) **RF_SNR_DRIFT_W**

Description: RF SNR drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS238 SNR drift warning limit

49171 (Hex: 0xC013) **RF_CNR_W**

Description: RF CNR limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS239 CNR warning limit

49172 (Hex: 0xC014) **RF_CNR_DRIFT_W**

Description: RF CNR drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS240 CNR drift warning limit

49173 (Hex: 0xC015) **RF_CARRIER_OFFSET_W**

Description: RF Carrier offset limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS241 Carrier offset warning limit

49174 (Hex: 0xC016) **RF_CARRIER_OFFSET_DRIFT_W**

Description: RF Carrier offset drift limit warning (info only)

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters:
PS242 Carrier offset drift warning limit

49175 (Hex: 0xC017) **RF Metric Warnings**

Description: RF Metric Warnings

Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

49176 (Hex: 0xC018) **DPI/SIT Cancel**

Description: DPI Cancel has been recieved (info only)

Applicable Standards: DVB

Associated Parameters: No parameters required

49177 (Hex: 0xC019) **DPI/SIT Splice**

Description: DPI Splice has been recieved (info only)

Applicable Standards: DVB

Associated Parameters: No parameters required

49178 (Hex: 0xC01A) **DPI/SIT Program Splice**

Description: DPI Prg Splice has been recieved (info only)

Applicable Standards: DVB

Associated Parameters: No parameters required

49179 (Hex: 0xC01B) **DPI/SIT Component Splice**

Description: DPI Cmp Splice has been recieved (info only)

Applicable Standards: DVB

Associated Parameters: No parameters required

49180 (Hex: 0xC01C) **Any DPI/SIT Information**

Description: Any DPI/SIT Information

Applicable Standards: DVB

Associated Parameters: No parameters required

49182 (Hex: 0xC01E) **RF Metric Warnings**

Description: RF Metric Warnings

Applicable Standards: Applicable Standards: MPEG, DVB, ATSC, ISDB, Chinese, DCII

Associated Parameters: No parameters required

Test Name to Event Identity

Table 2–1 provides a cross-reference between the test name and the associated event identity (in decimal and hex format).

Table 2–1: Test name to event identity

Test name	Event identity (Decimal)	Event identity (Hex)
	14375	0x3827
1.1 Sync Loss	12305	0x3011
1.2 Sync Byte	12306	0x3012
1.3 PAT (Scrambling)	12546	0x3102
1.3 PAT (Table ID)	12545	0x3101
1.3 PAT (Timer)	12544	0x3100
1.3a PAT	12312	0x3018
1.4 Continuity	12594	0x3132
1.4 Continuity	12308	0x3014
1.5 PMT (Scrambling)	12548	0x3104
1.5 PMT (Timer)	12547	0x3103
1.5 PMT (Timer)	12640	0x3160
1.5a PMT	28672	0x7000
1.5a PMT	12313	0x3019
1.6 PID	12311	0x3017
1.6 PID	12310	0x3016
2.1 Transport	12321	0x3021
2.2 CRC	12322	0x3022
2.3a PCR Repetition	12567	0x3117
2.3a PCR Repetition	12624	0x3150
2.3b PCR Discontinuity Indicator	12568	0x3118
2.3b PCR Discontinuity Indicator	12625	0x3151
2.4 PCR Accuracy	12328	0x3028
2.4 PCR Accuracy	12324	0x3024
2.5 PTS	12325	0x3025
2.5 PTS	14120	0x3728
2.6 CAT	12326	0x3026

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
3.1 NIT (Table ID)	12553	0x3109
3.1a NIT Actual	12608	0x3140
3.1b NIT Other	14088	0x3708
3.2 SI Repetition	12338	0x3032
3.4a Unref PID	12346	0x303A
3.4a Unref PID	12347	0x303B
3.5 SDT (Table ID)	12550	0x3106
3.5a SDT Actual	12610	0x3142
3.5b SDT Other	14094	0x370E
3.6 EIT (Table ID)	12561	0x3111
3.6a EIT Actual	12611	0x3143
3.6b EIT Other	12612	0x3144
3.6c EIT PF	13107	0x3333
3.7 RST	12343	0x3037
3.8 TDT	12344	0x3038
3.8 TDT (Table ID)	12563	0x3113
A/53 Prog P'digm	13088	0x3320
A/65 Base PID	12808	0x3208
A/65 EIT	12804	0x3204
A/65 ETT	12806	0x3206
A/65 MGT	12801	0x3201
A/65 MGT (Timer)	12817	0x3211
A/65 RRT	12803	0x3203
A/65 RRT (Timer)	12819	0x3213
A/65 STT	12802	0x3202
A/65 STT (Timer)	12818	0x3212
A/65 VCT	12805	0x3205
A/65 VCT (Timer)	12816	0x3210
Any Box Error	4096	0x1000
Any DPI/SIT Errors	14378	0x382A
Any DPI/SIT Information	49180	0xC01C
Any Program Error	8200	0x2008

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
Any Stream Error	8192	0x2000
Any Table Syntax	13600	0x3520
BAT Max Subtable Reptn Int	14113	0x3721
BAT Min Sect Reptn Int	14112	0x3720
BAT Syntax	13572	0x3504
Battery	4610	0x1202
BIT	14193	0x3771
BIT (Table ID)	14209	0x3781
BIT Max Subtable Reptn Int	14179	0x3763
BIT Min Section Reptn Int	14178	0x3762
BIT Syntax	14226	0x3792
CAT max subtable RI	12565	0x3115
CAT Scrambling	12564	0x3114
CAT Syntax	13570	0x3502
CAT Table Id	12551	0x3107
CDT	14199	0x3777
CDT Max Subtable Reptn Int	14198	0x3776
CDT Min Sect Reptn Int	14197	0x3775
CDT Syntax	14233	0x3799
DCCSCT Syntax	13585	0x3511
DCCT Syntax	13584	0x3510
Discontinuity	12593	0x3131
Discontinuity	12595	0x3133
DIT	12588	0x312C
DIT (Table ID)	12582	0x3126
DPI/SIT Cancel	49176	0xC018
DPI/SIT Component Splice	49179	0xC01B
DPI/SIT Ecryption failure	14373	0x3825
DPI/SIT Max repetion rate error	14377	0x3829
DPI/SIT Missing	14374	0x3826
DPI/SIT Multi PID Test	14372	0x3824
DPI/SIT Program Splice	49178	0xC01A

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
DPI/SIT Single PID test	14371	0x3823
DPI/SIT Splice	49177	0xC019
DPI/SIT Syntax error	14376	0x3828
DSMCC DDB	12591	0x312F
DSMCC DDB Max Subtable Reptn Int	14188	0x376C
DSMCC UN	12590	0x312E
DSMCC UN Max Subtable Reptn Int	14186	0x376A
EIT	12342	0x3036
EIT Actual F Max Sect Reptn Int	14098	0x3712
EIT Actual P Max Sect Reptn Int	14097	0x3711
EIT Actual PF Max Subtable Reptn Int	14096	0x3710
EIT Actual PF Min Sect Reptn Int	14095	0x370F
EIT Actual PF Missing	14163	0x3753
EIT Actual Sched Max Subtable Reptn Int	14104	0x3718
EIT Actual Sched Min Sect Reptn Int	14103	0x3717
EIT Err Timer	12560	0x3110
EIT Other F Max Sect Reptn Int	14102	0x3716
EIT Other P Max Sect Reptn Int	14101	0x3715
EIT Other PF Max Subtable Reptn Int	14100	0x3714
EIT Other PF Min Sect Reptn Int	14099	0x3713
EIT Other Sched Max Subtable Reptn Int	14106	0x371A
EIT Other Sched Min Sect Reptn Int	14105	0x3719
EIT PF Presence Error	12370	0x3052
EIT Syntax	13574	0x3506
EIT-0,1,2,3 Max Sect Reptn Int	14119	0x3727
EIT-0,1,2,3 Missing	14169	0x3759
EIT-k Syntax	13581	0x350D
ETT Syntax	13583	0x350F
EventID_0x3902	14594	0x3902
EventID_0x3903	14595	0x3903
EVID_ALARM_RESET	4355	0x1103
EVID_ANY_ALARM_ON	16	0x10

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
EVID_ANY_ERR	0	0x0
EVID_ANY_PID_ERR	8199	0x2007
EVID_ASSERTION	4613	0x1205
EVID_ATSCEIT0123_MAX_INSTANCE_RI	14118	0x3726
EVID_BOX_CONFIG	4611	0x1203
EVID_BOX_TIME_SET	4631	0x1217
EVID_CDT_ERR_TABLE_ID	14211	0x3783
EVID_CLEAR_LOG	4357	0x1105
EVID_CONTINUITY_COUNT_ERROR	12592	0x3130
EVID_DCVOLTAGE test change	4101	0x1005
EVID_EVENT_RESET	4356	0x1104
EVID_FIRMWARE_UPLOAD	4615	0x1207
EVID_FLOPPY_DISK	4099	0x1003
EVID_FRONT_PANEL_ITEM	4629	0x1215
EVID_GLOBAL_MMODE	20481	0x5001
EVID_HARD_DISK	4098	0x1002
EVID_INDIVIDUAL_ATS-CEIT0123_MAX_INSTANCE_RI	14144	0x3740
EVID_INDIVIDUAL_BAT_MAX_SUBTABLE_RI	14143	0x373F
EVID_INDIVIDUAL_BAT_MIN_SECTION_RI	14142	0x373E
EVID_INDIVIDUAL_BIT_MAX_SUBTABLE_RI	14148	0x3744
EVID_INDIVIDUAL_BIT_MIN_SECTION_RI	14147	0x3743
EVID_INDIVIDUAL_CDT_MAX_SUBTABLE_RI	14157	0x374D
EVID_INDIVIDUAL_CDT_MIN_SECTION_RI	14158	0x374E
EVID_INDIVIDUAL_DSMCC_DDB_MAX_SUBT-ABLE_RI	14187	0x376B
EVID_INDIVIDUAL_DSMCC_UN_MAX_SUBT-ABLE_RI	14189	0x376D
EVID_INDIVIDUAL_DVBEIT_ACTU-AL_PF_MAX_SUBTABLE_RI	14132	0x3734
EVID_INDIVIDUAL_DVBEIT_ACTU-AL_PF_MIN_SECTION_RI	14131	0x3733
EVID_INDIVIDUAL_DVBEIT_ACTU-AL_S_MAX_SUBTABLE_RI	14136	0x3738

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
EVID_INDIVIDUAL_DVBEIT_ACTUAL_S_MIN_SEC - TION_RI	14135	0x3737
EVID_INDIVIDUAL_DVBEIT_OTH - ER_PF_MAX_SUBTABLE_RI	14134	0x3736
EVID_INDIVIDUAL_DVBEIT_OTH - ER_PF_MIN_SECTION_RI	14133	0x3735
EVID_INDIVIDUAL_DVBEIT_OTH - ER_S_MAX_SUBTABLE_RI	14138	0x373A
EVID_INDIVIDUAL_DVBEIT_OTHER_S_MIN_SEC - TION_RI	14137	0x3739
EVID_INDIVIDUAL_DVBEIT_PF_PRESENCE	12369	0x3051
EVID_INDIVIDUAL_HEIT_BASIC_SCD_AU - DIO_MAX_RI_BASE	14295	0x37D7
EVID_INDIVIDUAL_HEIT_BASIC_SCD_AU - DIO_MAX_RI_CYC1	14292	0x37D4
EVID_INDIVIDUAL_HEIT_BASIC_SCD_AU - DIO_MAX_RI_CYC2	14293	0x37D5
EVID_INDIVIDUAL_HEIT_BASIC_SCD_AU - DIO_MAX_RI_CYC3	14294	0x37D6
EVID_INDIVIDUAL_HEIT_BA - SIC_SCD_DATA_MAX_RI_BASE	14299	0x37DB
EVID_INDIVIDUAL_HEIT_BA - SIC_SCD_DATA_MAX_RI_CYC1	14296	0x37D8
EVID_INDIVIDUAL_HEIT_BA - SIC_SCD_DATA_MAX_RI_CYC2	14297	0x37D9
EVID_INDIVIDUAL_HEIT_BA - SIC_SCD_DATA_MAX_RI_CYC3	14298	0x37DA
EVID_INDIVIDUAL_HEIT_BA - SIC_SCD_TV_MAX_RI_BASE	14291	0x37D3
EVID_INDIVIDUAL_HEIT_BA - SIC_SCD_TV_MAX_RI_CYC1	14288	0x37D0
EVID_INDIVIDUAL_HEIT_BA - SIC_SCD_TV_MAX_RI_CYC2	14289	0x37D1
EVID_INDIVIDUAL_HEIT_BA - SIC_SCD_TV_MAX_RI_CYC3	14290	0x37D2
EVID_INDIVIDUAL_HEIT_EXT_SCD_AU - DIO_MAX_RI_BASE	14307	0x37E3

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
EVID_INDIVIDUAL_HEIT_EXT_SCD_AU - DIO_MAX_RI_CYC1	14304	0x37E0
EVID_INDIVIDUAL_HEIT_EXT_SCD_AU - DIO_MAX_RI_CYC2	14305	0x37E1
EVID_INDIVIDUAL_HEIT_EXT_SCD_AU - DIO_MAX_RI_CYC3	14306	0x37E2
EVID_INDIVID - UAL_HEIT_EXT_SCD_DATA_MAX_RI_BASE	14311	0x37E7
EVID_INDIVID - UAL_HEIT_EXT_SCD_DATA_MAX_RI_CYC1	14308	0x37E4
EVID_INDIVID - UAL_HEIT_EXT_SCD_DATA_MAX_RI_CYC2	14309	0x37E5
EVID_INDIVID - UAL_HEIT_EXT_SCD_DATA_MAX_RI_CYC3	14310	0x37E6
EVID_INDIVID - UAL_HEIT_EXT_SCD_TV_MAX_RI_BASE	14303	0x37DF
EVID_INDIVID - UAL_HEIT_EXT_SCD_TV_MAX_RI_CYC1	14300	0x37DC
EVID_INDIVID - UAL_HEIT_EXT_SCD_TV_MAX_RI_CYC2	14301	0x37DD
EVID_INDIVID - UAL_HEIT_EXT_SCD_TV_MAX_RI_CYC3	14302	0x37DE
EVID_INDIVIDUAL_HSDTT_MAX_SUBTABLE_RI	14315	0x37EB
EVID_INDIVIDUAL_HSDTT_MIN_SECTION_RI	14314	0x37EA
EVID_INDIVIDUAL_LDT_MAX_SUBTABLE_RI	14154	0x374A
EVID_INDIVIDUAL_LDT_MIN_SECTION_RI	14153	0x3749
EVID_INDIVIDUAL_LEIT_MAX_SUBTABLE_RI	14171	0x375B
EVID_INDIVIDUAL_LEIT_MIN_SECTION_RI	14201	0x3779
EVID_INDIVIDUAL_LSDTT_MAX_SUBTABLE_RI	14319	0x37EF
EVID_INDIVIDUAL_LSDTT_MIN_SECTION_RI	14318	0x37EE
EVID_INDIVIDUAL_MEIT_MAX_SUBTABLE_RI	14170	0x375A
EVID_INDIVIDUAL_MEIT_MIN_SECTION_RI	14191	0x376F
EVID_INDIVIDUAL_NBIT_LINK_INFO_MAX_SUBT - ABLE_RI	14152	0x3748
EVID_INDIVIDUAL_NBIT_LINK_INFO_MIN_SEC - TION_RI	14151	0x3747

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
EVID_INDIVIDUAL_NBIT_MAX_SUBTABLE_RI	14150	0x3746
EVID_INDIVIDUAL_NBIT_MIN_SECTION_RI	14149	0x3745
EVID_INDIVIDUAL_NIT_ACTUAL_MAX_SUBT - ABLE_RI	14122	0x372A
EVID_INDIVIDUAL_NIT_ACTUAL_MIN_SEC - TION_RI	14121	0x3729
EVID_INDIVIDUAL_NIT_OTHER_MAX_SEC - TION_RI	14125	0x372D
EVID_INDIVIDUAL_NIT_OTHER_MAX_SUBT - ABLE_RI	14124	0x372C
EVID_INDIVIDUAL_NIT_OTHER_MIN_SECTION_RI	14123	0x372B
EVID_INDIVIDUAL_PCR_ERR	12327	0x3027
EVID_INDIVIDUAL_RST_MIN_SECTION_RI	14139	0x373B
EVID_INDIVIDUAL_SDT_ACTUAL_MAX_SUBT - ABLE_RI	14127	0x372F
EVID_INDIVIDUAL_SDT_ACTUAL_MIN_SEC - TION_RI	14126	0x372E
EVID_INDIVIDUAL_SDT_OTHER_MAX_SEC - TION_RI	14130	0x3732
EVID_INDIVIDUAL_SDT_OTHER_MAX_SUBT - ABLE_RI	14129	0x3731
EVID_INDIVIDUAL_SDT_OTHER_MIN_SEC - TION_RI	14128	0x3730
EVID_INDIVIDUAL_SDTT_MAX_SUBTABLE_RI	14146	0x3742
EVID_INDIVIDUAL_SDTT_MIN_SECTION_RI	14145	0x3741
EVID_INDIVIDUAL_TDT_MIN_SECTION_RI	14140	0x373C
EVID_INDIVIDUAL_TEMPLATE_RATING_ERR	25345	0x6301
EVID_INDIVIDUAL_TOT_MIN_SECTION_RI	14141	0x373D
EVID_INDIVIDUAL_VCT_MAX_SUBTABLE_RI	14155	0x374B
EVID_INTERFACE_FIRMWARE	4612	0x1204
EVID_ISDBT_INDIVIDUAL_NIT_EIT_CONSISTEN - CY	14251	0x37AB
EVID_ISDBT_INDIVIDUAL_SDT_EIT_CONSISTEN - CY	14248	0x37A8
EVID_ISDBT_NIT_SDT_SERVICE_CONSISTENCY	14249	0x37A9
EVID_ISDBT_TSP_ERROR	14256	0x37B0

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
EVID_LDT_MAX_SUBTABLE_RI	14185	0x3769
EVID_LDT_MIN_SECTION_RI	14184	0x3768
EVID_LOGIC	4617	0x1209
EVID_MINUS_FIVE_VOLTS	4130	0x1022
EVID_MINUS_TWELVE_VOLTS	4131	0x1023
EVID_MISC_HARDWARE	4624	0x1210
EVID_NBIT_LINK_INFO_MAX_SUBTABLE_RI	14183	0x3767
EVID_NBIT_LINK_INFO_MIN_SECTION_RI	14182	0x3766
EVID_NBIT_MAX_SUBTABLE_RI	14181	0x3765
EVID_NBIT_MIN_SECTION_RI	14180	0x3764
EVID_NETWORK	4616	0x1208
EVID_PIDGROUP_OCC_LIM	8195	0x2003
EVID_PLUS_FIVE_VOLTS	4128	0x1020
EVID_PLUS_TWELVE_VOLTS	4129	0x1021
EVID_RECORDING_COMPLETE	45312	0xB100
EVID_RF_BER_POST_RS	14345	0x3809
EVID_RF_BER_POST_RS_DRIFT	14346	0x380A
EVID_RF_BER_PRE_RS	14341	0x3805
EVID_RF_BER_PRE_RS_DRIFT	14342	0x3806
EVID_RF_BER_PRE_VITERBI	14343	0x3807
EVID_RF_BER_PRE_VITERBI_DRIFT	14344	0x3808
EVID_RF_CARRIER_OFFSET	14356	0x3814
EVID_RF_CARRIER_OFFSET_DRIFT	14357	0x3815
EVID_RF_CNR	14354	0x3812
EVID_RF_CNR_DRIFT	14355	0x3813
EVID_RF_EVM	14339	0x3803
EVID_RF_EVM_DRIFT	14340	0x3804
EVID_RF_LOCK	14336	0x3800
EVID_RF_MER	14337	0x3801
EVID_RF_MER_DRIFT	14338	0x3802
EVID_RF_POWER_DRIFT	14351	0x380F
EVID_RF_POWER_HIGH	14349	0x380D

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
EVID_RF_POWER_LOW	14350	0x380E
EVID_RF_SNR	14352	0x3810
EVID_RF_SNR_DRIFT	14353	0x3811
EVID_RF_TEF	14347	0x380B
EVID_RF_TEF_DRIFT	14348	0x380C
EVID_SCHEDULER	45072	0xB010
EVID_STREAM_CONFIG	45056	0xB000
EVID_STREAM_MISC_ERR	8450	0x2102
EVID_STREAM_MISC_INF	8448	0x2100
EVID_STREAM_MISC_WARN	8449	0x2101
EVID_SV_DEBUG	4608	0x1200
EVID_SV_INIT_FAIL	4354	0x1102
EVID_SV_START	4352	0x1100
EVID_SV_STOP	4353	0x1101
EVID_SYNTAX_ERT	14231	0x3797
EVID_SYNTAX_ITT	14232	0x3798
EVID_SYNTAX_LDT	14229	0x3795
EVID_SYNTAX_LIT	14230	0x3796
EVID_SYNTAX_NBIT	14227	0x3793
EVID_SYNTAX_NBIT_LINK_INFO	14228	0x3794
EVID_SYNTAX_PCAT	14224	0x3790
EVID_TEMPLATE_MATCH	13056	0x3300
EVID_TIME_SET	49152	0xC000
EVID_TRAPS_THROTTLED	20996	0x5204
EVID_TS_SYNC_STATE	12368	0x3050
EVIDANY_INDIVIDUAL_ERROR	12580	0x3124
EVIDDCCSCT_MAX_SECTION_RI	14159	0x374F
EVIDDCCT_MAX_SUBTABLE_RI	14200	0x3778
EVIDECM_ERR	8198	0x2006
EVIDISDBT_IIP_MIN_RI	14274	0x37C2
EVIDLDT_ERR	14196	0x3774
EVIDNBIT_ERR	14194	0x3772

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
EVIDNBIT_LINK_INFO_ERR	14195	0x3773
EVIDPID_DSMCC_DDB_MAX_SUBTABLE_RI	14190	0x376E
Fan 1	4160	0x1040
Fan 2	4161	0x1041
Fan 3	4162	0x1042
Fan 4	4163	0x1043
Fan Monitor	4164	0x1044
Fan State	4097	0x1001
Front Panel	4628	0x1214
H-EIT	12583	0x3127
H-EIT (Table ID)	12570	0x311A
H-EIT basic schedule max subtable RI for audio	14262	0x37B6
H-EIT basic schedule max subtable RI for data	14263	0x37B7
H-EIT basic schedule max subtable RI for TV	14261	0x37B5
H-EIT extended schedule max subtable RI for audio	14265	0x37B9
H-EIT extended schedule max subtable RI for data	14266	0x37BA
H-EIT extended schedule max subtable RI for TV	14264	0x37B8
HEIT Schedule	14333	0x37FD
H-SDTT	12586	0x312A
H-SDTT (Table ID)	12574	0x311E
I2C	4609	0x1201
ISBBT NIT/EIT Consistency	14250	0x37AA
ISDB Tests	14328	0x37F8
ISDBT Any IIP CRC	14260	0x37B4
ISDBT EIT Type Content Check	14245	0x37A5
ISDBT EIT Unique Event Id	14246	0x37A6
ISDBT Guard Interval Consistency	14234	0x379A
ISDBT IIP Branching	14273	0x37C1
ISDBT IIP MCCI CRC	14258	0x37B2
ISDBT IIP SFN Sync CRC	14259	0x37B3
ISDBT Mode/Guard Interval Validation	14238	0x379E
ISDBT Modulation Consistency	14237	0x379D

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
ISDBT Modulation/Error Compensation Validation	14240	0x37A0
ISDBT NIT Service List Consistency	14242	0x37A2
ISDBT NIT Terrestrial Delivery Validation	14241	0x37A1
ISDBT NIT/SDT Consistency	14257	0x37B1
ISDBT Partial Reception Consistency	14236	0x379C
ISDBT Partial Reception/TS Information Consistency	14243	0x37A3
ISDBT SDT/EIT Consistency	14247	0x37A7
ISDBT Time Interleaving Validation	14239	0x379F
ISDBT TMCC Id Error	14275	0x37C3
ISDBT Transmission Mode Consistency	14235	0x379B
L-EIT	12585	0x3129
L-EIT (Table ID)	12572	0x311C
L-EIT Max Subtable Reptn Int	14174	0x375E
L-EIT Min Sect Reptn Int	14175	0x375F
Local Temperature	4144	0x1030
L-SDTT	12587	0x312B
L-SDTT (Table ID)	12573	0x311D
LTC Clock	4625	0x1211
M-EIT	12584	0x3128
M-EIT (Table ID)	12571	0x311B
M-EIT Max Subtable Reptn Int	14172	0x375C
M-EIT Min Sect Reptn Int	14173	0x375D
MGT Missing	14165	0x3755
MGT Syntax	13578	0x350A
MGT/EIT-k presence	12848	0x3230
Miscellaneous	14329	0x37F9
NBIT (Table ID)	14210	0x3782
Network Clock	4626	0x1212
NIM Message Missing	14386	0x3832
NIM Syntax	13589	0x3515
NIT	12337	0x3031
NIT Actual Max Section Reptn Int	14085	0x3705

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
NIT Actual Max Subtable Reptn Int	14084	0x3704
NIT Actual Min Section Reptn Int	14083	0x3703
NIT Actual Missing	14161	0x3751
NIT Err Timer	12552	0x3108
NIT Other Max Subtable Reptn Int	14087	0x3707
NIT Other Min Section Reptn Int	14086	0x3706
NIT Syntax	13571	0x3503
NTM Message Missing	14387	0x3833
NTM Syntax	13590	0x3516
Other	14322	0x37F2
PAT Missing	14160	0x3750
PAT Syntax	13568	0x3500
PAT/PMT Consistency	13104	0x3330
PAT/SDT Consistency	13105	0x3331
PAT/VCT Consistency	13106	0x3332
PCR	12323	0x3023
PCR Drift Rate (PCR_DR)	12354	0x3042
PCR Drift Rate (PCR_DR)	12357	0x3045
PCR Frequency Offset (PCR_FO)	12353	0x3041
PCR Frequency Offset (PCR_FO)	12356	0x3044
PCR Overall Jitter (PCR_OJ)	12355	0x3043
PCR Overall Jitter (PCR_OJ)	12352	0x3040
PID Bit Rate Variability	8209	0x2011
PID Bit Rate Variability	8208	0x2010
PID Group Occupancy	8197	0x2005
PID Occupancy	8193	0x2001
PID Occupancy	8196	0x2004
PIM Message Missing	14384	0x3830
PIM Syntax	13587	0x3513
PMT Syntax	13569	0x3501
PNM Message Missing	14385	0x3831
PNM Syntax	13588	0x3514

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
Priority 1	14323	0x37F3
Priority 2	14324	0x37F4
Priority 3	14325	0x37F5
Processing Overwhelmed	20994	0x5202
Processing Strained	20993	0x5201
Prog Occupancy	12345	0x3039
Program Information	49153	0xC001
Program Information	14244	0x37A4
Program Occupancy	8194	0x2002
PTS/DTS Syntax Error	12372	0x3054
Real Time Clock	4614	0x1206
Remote Temperature	4145	0x1031
RF Metric Errors	14358	0x3816
RF Metric Warnings	49175	0xC017
RF Metric Warnings	49182	0xC01E
RF_BER_POST_RS_DRIFT_W	49163	0xC00B
RF_BER_POST_RS_W	49162	0xC00A
RF_BER_PRE_RS_DRIFT_W	49159	0xC007
RF_BER_PRE_RS_W	49158	0xC006
RF_BER_PRE_VITERBI_DRIFT_W	49161	0xC009
RF_BER_PRE_VITERBI_W	49160	0xC008
RF_CARRIER_OFFSET_DRIFT_W	49174	0xC016
RF_CARRIER_OFFSET_W	49173	0xC015
RF_CNR_DRIFT_W	49172	0xC014
RF_CNR_W	49171	0xC013
RF_EVM_DRIFT_W	49157	0xC005
RF_EVM_W	49156	0xC004
RF_MER_DRIFT_W	49155	0xC003
RF_MER_W	49154	0xC002
RF_POWER_DRIFT_W	49168	0xC010
RF_POWER_HIGH_W	49166	0xC00E
RF_POWER_LOW_W	49167	0xC00F

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
RF_SNR_DRIFT_W	49170	0xC012
RF_SNR_W	49169	0xC011
RF_TEF_DRIFT_W	49165	0xC00D
RF_TEF_W	49164	0xC00C
RRT Missing	14167	0x3757
RRT Syntax	13579	0x350B
RST (Table ID)	12576	0x3120
RST Min Sect Reptn Int	14107	0x371B
RST Syntax	13577	0x3509
Script Conformance Warning	14593	0x3901
Script Conformance Warning	14335	0x37FF
Script Validation Error	14334	0x37FE
Script Validation Error	14592	0x3900
SDT	12341	0x3035
SDT Actual Max Section Reptn Int	14091	0x370B
SDT Actual Max Subtable Reptn Int	14090	0x370A
SDT Actual Min Section Reptn Int	14089	0x3709
SDT Actual Missing	14162	0x3752
SDT Err Timer	12549	0x3105
SDT Other Max Subtable Reptn Int	14093	0x370D
SDT Other Min Section Reptn Int	14092	0x370C
SDT Syntax	13573	0x3505
SDTT	14192	0x3770
SDTT (Table ID)	14208	0x3780
SDTT Max Subtable Reptn Int	14177	0x3761
SDTT Min Sect Reptn Int	14176	0x3760
SDTT Syntax	14225	0x3791
SDTT(H) max subtable RI	14313	0x37E9
SDTT(H) min section RI	14312	0x37E8
SDTT(H) Syntax	14320	0x37F0
SDTT(L) max subtable RI	14317	0x37ED
SDTT(L) min section RI	14316	0x37EC

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
SDTT(L) Syntax	14321	0x37F1
Service Information Strained	20995	0x5203
Service Log Overflow	20992	0x5200
SFN (Invalid MIP)	13315	0x3403
SFN (No MIP)	13313	0x3401
SFN (Timer)	13316	0x3404
SFN CRC	13331	0x3413
SFN Error	13312	0x3400
SFN MIP Coding	13332	0x3414
SFN MIP Length	13330	0x3412
SFN One MIP per M/F	13328	0x3410
SFN Packet Cout Err	13314	0x3402
SFN Periodicity Consistency	13333	0x3415
SFN Pointer Consistency	13334	0x3416
SFN Repetition	13329	0x3411
SIT	12589	0x312D
SIT (Table ID)	12575	0x311F
STM Message Missing	14389	0x3835
STM Syntax	13592	0x3518
Stream Mmode	20480	0x5000
STT Missing	14168	0x3758
STT Syntax	13582	0x350E
System Card	4630	0x1216
System Card Temperature	4146	0x1032
Table Id Error	14331	0x37FB
Table Tests	14326	0x37F6
TDT Min Sect Reptn Int	14108	0x371C
TDT Missing	14164	0x3754
TDT Syntax	13575	0x3507
TDT Timer	12562	0x3112
Temperature	4100	0x1004
Template Header Error	24576	0x6000

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
Template Master Error	28671	0x6FFF
Template NetID Err	24608	0x6020
Template Orig NetID Err	24624	0x6030
Template Pid CA Err	25104	0x6210
Template PID Constraint Err	25152	0x6240
Template PID Error	25088	0x6200
Template PID Scramble Err	25120	0x6220
Template PID Stream Type Err	25136	0x6230
Template Rating Error	25344	0x6300
Template Rating Guidance Err	25376	0x6320
Template Rating Region Err	25360	0x6310
Template Service Constraint Err	24896	0x6140
Template Service Error	24832	0x6100
Template Service Name Err	24880	0x6130
Template Service Number Err	24640	0x6040
Template Service PCR Err	24848	0x6110
Template Service Pid Number Err	24912	0x6150
Template Service Type Err	24864	0x6120
Template TS Err	24592	0x6010
Time Source	4627	0x1213
Timer Error	14332	0x37FC
TOT	12596	0x3134
TOT (Table ID)	12569	0x3119
TOT Max Sect Reptn Int	14111	0x371F
TOT Min Sect Reptn Int	14110	0x371E
TOT Syntax	13576	0x3508
TR 101 290	14327	0x37F7
Transport Stream Occupancy	13824	0x3600
TS Availability	12371	0x3053
VCM Message Missing	14388	0x3834
VCM Syntax	13591	0x3517
VCT Max Sect Reptn Int	14156	0x374C

Table 2–1: Test name to event identity (Cont.)

Test name	Event identity (Decimal)	Event identity (Hex)
VCT Missing	14166	0x3756
VCT Syntax	13580	0x350C

Parameter Reference

The values given in Table 2–2 are relevant for all standards unless otherwise indicated.

Table 2–2: Parameter reference

Parameter Identity:	PP1	Description:	PID bit rate limit and missing test integration count		
		Nominal	Maximum	Minimum	Units
		1	60	1	integer > 0
Parameter Identity:	PP11	Description:	Max PCR overall jitter		
		Nominal	Maximum	Minimum	Units
		25000	250000	250	ns
Parameter Identity:	PP12	Description:	Maximum PCR frequency offset		
		Nominal	Maximum	Minimum	Units
		800	10000	50	Hz
Parameter Identity:	PP13	Description:	Maximum PCR frequency drift rate		
		Nominal	Maximum	Minimum	Units
		75	1500	10	mHz/s
Parameter Identity:	PP14	Description:	PCR frequency drift rate integration count		
		Nominal	Maximum	Minimum	Units
		25	250	1	integer > 0
Parameter Identity:	PP15	Description:	DSMCC DDB max section repetition interval		
		Nominal	Maximum	Minimum	Units
		2000	2000000	10	ms
Parameter Identity:	PP2	Description:	PCR max repetition interval		
		Nominal	Maximum	Minimum	Units
		40	500	10	ms
	ATSC|ISDB_T	100	500	10	ms
Parameter Identity:	PP20	Description:	VSB Max PCR accuracy error		
		Nominal	Maximum	Minimum	Units
		500	10000	100	ns
Parameter Identity:	PP21	Description:	VSB Max PCR overall jitter		
		Nominal	Maximum	Minimum	Units
		25000	250000	250	ns
Parameter Identity:	PP22	Description:	VSB Maximum PCR frequency offset		
		Nominal	Maximum	Minimum	Units

Table 2–2: Parameter reference (Cont.)

		75	10000	50	Hz
Parameter Identity:	PP23	Description:	VSB Maximum PCR frequency drift rate		
		Nominal	Maximum	Minimum	Units
		750	1500	10	mHz/s
Parameter Identity:	PP3	Description:	Max PCR discontinuity		
		Nominal	Maximum	Minimum	Units
		100	1000	10	ms
Parameter Identity:	PP30	Description:	PSK Max PCR accuracy error		
		Nominal	Maximum	Minimum	Units
		500	10000	100	ns
Parameter Identity:	PP31	Description:	PSK Max PCR overall jitter		
		Nominal	Maximum	Minimum	Units
		25000	250000	250	ns
Parameter Identity:	PP32	Description:	PSK Maximum PCR frequency offset		
		Nominal	Maximum	Minimum	Units
		800	10000	50	Hz
Parameter Identity:	PP33	Description:	PSK Maximum PCR frequency drift rate		
		Nominal	Maximum	Minimum	Units
		75	1500	10	mHz/s
Parameter Identity:	PP4	Description:	Max PCR accuracy error		
		Nominal	Maximum	Minimum	Units
		500	10000	100	ns
Parameter Identity:	PP40	Description:	QAM Max PCR accuracy error		
		Nominal	Maximum	Minimum	Units
		500	10000	100	ns
Parameter Identity:	PP41	Description:	QAM Max PCR overall jitter		
		Nominal	Maximum	Minimum	Units
		25000	250000	250	ns
Parameter Identity:	PP42	Description:	QAM Maximum PCR frequency offset		
		Nominal	Maximum	Minimum	Units
		800	10000	50	Hz
Parameter Identity:	PP43	Description:	QAM Maximum PCR frequency drift rate		
		Nominal	Maximum	Minimum	Units
		75	1500	10	mHz/s
Parameter Identity:	PP5	Description:	Max PTS repetition interval		
		Nominal	Maximum	Minimum	Units

Table 2–2: Parameter reference (Cont.)

		700	5000	100	ms
	ISDB_T	1300	5000	100	ms
Parameter Identity:	PP50	Description:	COFDM Max PCR accuracy error		
		Nominal	Maximum	Minimum	Units
		500	10000	100	ns
Parameter Identity:	PP51	Description:	COFDM Max PCR overall jitter		
		Nominal	Maximum	Minimum	Units
		25000	250000	250	ns
Parameter Identity:	PP52	Description:	COFDM Maximum PCR frequency offset		
		Nominal	Maximum	Minimum	Units
		800	10000	50	Hz
Parameter Identity:	PP53	Description:	COFDM Maximum PCR frequency drift rate		
		Nominal	Maximum	Minimum	Units
		350	1500	10	mHz/s
Parameter Identity:	PP6	Description:	Min pid bit rate		
		Nominal	Maximum	Minimum	Units
		0	300000000	0	bps
Parameter Identity:	PP60	Description:	IP Max PCR accuracy error		
		Nominal	Maximum	Minimum	Units
		500	10000	100	ns
Parameter Identity:	PP61	Description:	IP Max PCR overall jitter		
		Nominal	Maximum	Minimum	Units
		25000	250000	250	ns
Parameter Identity:	PP62	Description:	IP Maximum PCR frequency offset		
		Nominal	Maximum	Minimum	Units
		800	10000	50	Hz
Parameter Identity:	PP63	Description:	IP Maximum PCR frequency drift rate		
		Nominal	Maximum	Minimum	Units
		75	1500	10	mHz/s
Parameter Identity:	PP7	Description:	Max pid bit rate		
		Nominal	Maximum	Minimum	Units
		–1	300000000	0	bps
Parameter Identity:	PP8	Description:	PID bit rate variability integration count		
		Nominal	Maximum	Minimum	Units
		10	30	2	integer > 0
Parameter Identity:	PP9	Description:	PID bit rate variability fraction		

Table 2–2: Parameter reference (Cont.)

		Nominal	Maximum	Minimum	Units
		0	1	0	fraction
Parameter Identity:	PS1	Description:	Measurement interval for overall bit rate		
		Nominal	Maximum	Minimum	Units
		1000	60000	100	ms
Parameter Identity:	PS10	Description:	PAT/PMT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS103	Description:	PTS arrival history length		
		Nominal	Maximum	Minimum	Units
		32	80	1	integer > 0
	ISDB_T	32	64	1	integer > 0
Parameter Identity:	PS104	Description:	DSMCC UN max subtable repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	2000000	50	ms
	ISDB_T	10000	100000	50	ms
Parameter Identity:	PS105	Description:	CAT max subtable repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	100000	100	ms
Parameter Identity:	PS106	Description:	DSMCC obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS11	Description:	PCR accuracy/jitter history length		
		Nominal	Maximum	Minimum	Units
		32	256	1	integer > 0
Parameter Identity:	PS111	Description:	SDT/EIT Consistency Timer Interval		
		Nominal	Maximum	Minimum	Units
		100000	300000	1000	ms
Parameter Identity:	PS113	Description:	M-EIT max repetition interval		
		Nominal	Maximum	Minimum	Units
		7800	30000	100	ms
	ISDB_T	2000	30000	100	ms
Parameter Identity:	PS114	Description:	L-EIT max repetition interval		
		Nominal	Maximum	Minimum	Units
		7800	30000	100	ms
	ISDB_T	2000	30000	100	ms

Table 2–2: Parameter reference (Cont.)

Parameter Identity:	PS115	Description:	M–EIT min section repetition interval		
		Nominal	Maximum	Minimum	Units
		0	100	0	ms
Parameter Identity:	PS116	Description:	L–EIT min section repetition interval		
		Nominal	Maximum	Minimum	Units
		0	100	0	ms
Parameter Identity:	PS117	Description:	EIT basic schedule(TV) number of segments in cycle group 1		
		Nominal	Maximum	Minimum	Units
		3	255	0	Integer >= 0
Parameter Identity:	PS118	Description:	EIT basic schedule(TV) number of segments in cycle group 2		
		Nominal	Maximum	Minimum	Units
		13	255	0	Integer >= 0
Parameter Identity:	PS119	Description:	EIT basic schedule(TV) number of segments in cycle group 3		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS120	Description:	EIT basic schedule(Sound) number of segments in cycle group 1		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS121	Description:	EIT basic schedule(Sound) number of segments in cycle group 2		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS122	Description:	EIT basic schedule(Sound) number of segments in cycle group 3		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS123	Description:	EIT basic schedule(Data) number of segments in cycle group 1		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS124	Description:	EIT basic schedule(Data) number of segments in cycle group 2		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS125	Description:	EIT basic schedule(Data) number of segments in cycle group 3		
		Nominal	Maximum	Minimum	Units
	0	255	0	Integer >= 0	
Parameter Identity:	PS126	Description:	EIT extended schedule(TV) number of segments in cycle group 1		
		Nominal	Maximum	Minimum	Units
		3	255	0	Integer >= 0

Table 2–2: Parameter reference (Cont.)

Parameter Identity:	PS127	Description:	EIT extended schedule(TV) number of segments in cycle group 2		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
	ISDB_T	0	255	0	Integer >= 0
Parameter Identity:	PS128	Description:	EIT extended schedule(TV) number of segments in cycle group 3		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS129	Description:	EIT extended schedule(Sound) number of segments in cycle group 1		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS13	Description:	CAT present timer		
		Nominal	Maximum	Minimum	Units
		2000	30000	100	ms
Parameter Identity:	PS130	Description:	EIT extended schedule(Sound) number of segments in cycle group 2		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS131	Description:	EIT extended schedule(Sound) number of segments in cycle group 3		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS132	Description:	EIT extended schedule(Data) number of segments in cycle group 1		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS133	Description:	EIT extended schedule(Data) number of segments in cycle group 2		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS134	Description:	EIT extended schedule(Data) number of segments in cycle group 3		
		Nominal	Maximum	Minimum	Units
		0	255	0	Integer >= 0
Parameter Identity:	PS135	Description:	EIT basic schedule(TV) max basic repetition interval		
		Nominal	Maximum	Minimum	Units
		120000	468000	1000	ms

Table 2–2: Parameter reference (Cont.)

Parameter Identity:	PS136	Description:	EIT basic schedule(TV) max cycle group 1 repetition interval		
		Nominal	Maximum	Minimum	Units
		6000	468000	1000	ms
Parameter Identity:	PS137	Description:	EIT basic schedule(TV) max cycle group 2 repetition interval		
		Nominal	Maximum	Minimum	Units
		20000	468000	1000	ms
Parameter Identity:	PS138	Description:	EIT basic schedule(TV) max cycle group 3 repetition interval		
		Nominal	Maximum	Minimum	Units
	30000	468000	1000	ms	
Parameter Identity:	PS139	Description:	EIT basic schedule(Sound) max basic repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS14	Description:	NIT actual network min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS140	Description:	EIT basic schedule(Sound) max cycle group 1 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS141	Description:	EIT basic schedule(Sound) max cycle group 2 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS142	Description:	EIT basic schedule(Sound) max cycle group 3 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS143	Description:	EIT basic schedule(Data) max basic repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
	ISDB_T	120000	468000	1000	ms
Parameter Identity:	PS144	Description:	EIT basic schedule(Data) max cycle group 1 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
	ISDB_T	6000	468000	1000	ms
Parameter Identity:	PS145	Description:	EIT basic schedule(Data) max cycle group 2 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms

Table 2–2: Parameter reference (Cont.)

Parameter Identity:	PS146	Description:	EIT basic schedule(Data) max cycle group 3 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS147	Description:	EIT extended schedule(TV) max basic repetition interval		
		Nominal	Maximum	Minimum	Units
		120000	468000	1000	ms
Parameter Identity:	PS148	Description:	EIT extended schedule(TV) max cycle group 1 repetition interval		
		Nominal	Maximum	Minimum	Units
		40000	468000	1000	ms
Parameter Identity:	PS149	Description:	EIT extended schedule(TV) max cycle group 2 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS15	Description:	NIT actual network max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	30000	1000	ms
	ISDB_T	1300	30000	1000	ms
Parameter Identity:	PS150	Description:	EIT extended schedule(TV) max cycle group 3 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS151	Description:	EIT extended schedule(Sound) max basic repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS152	Description:	EIT extended schedule(Sound) max cycle group 1 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS153	Description:	EIT extended schedule(Sound) max cycle group 2 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS154	Description:	EIT extended schedule(Sound) max cycle group 3 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS155	Description:	EIT extended schedule(Data) max basic repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms

Table 2–2: Parameter reference (Cont.)

	ISDB_T	120000	468000	1000	ms
Parameter Identity:	PS156	Description:	EIT extended schedule(Data) max cycle group 1 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
	ISDB_T	40000	468000	1000	ms
Parameter Identity:	PS157	Description:	EIT extended schedule(Data) max cycle group 2 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS158	Description:	EIT extended schedule(Data) max cycle group 3 repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	468000	1000	ms
Parameter Identity:	PS16	Description:	NIT actual network obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS160	Description:	EIT basic schedule(TV) range		
		Nominal	Maximum	Minimum	Units
		8	32	0	Integer >= 0
Parameter Identity:	PS161	Description:	EIT basic schedule(Sound) range		
		Nominal	Maximum	Minimum	Units
		1	32	0	Integer >= 0
Parameter Identity:	PS162	Description:	EIT basic schedule(Data) range		
		Nominal	Maximum	Minimum	Units
		1	32	0	Integer >= 0
	ISDB_T	8	32	0	Integer >= 0
Parameter Identity:	PS163	Description:	EIT extended schedule(TV) range		
		Nominal	Maximum	Minimum	Units
		8	32	0	Integer >= 0
Parameter Identity:	PS164	Description:	EIT extended schedule(Sound) range		
		Nominal	Maximum	Minimum	Units
		1	32	0	Integer >= 0
Parameter Identity:	PS165	Description:	EIT extended schedule(Data) range		
		Nominal	Maximum	Minimum	Units
		1	32	0	Integer >= 0
	ISDB_T	8	32	0	Integer >= 0
Parameter Identity:	PS166	Description:	IIP min repetition interval		
		Nominal	Maximum	Minimum	Units

Table 2–2: Parameter reference (Cont.)

		1000	100000	50	ms
Parameter Identity:	PS167	Description:	EIT 1 max repetition interval		
		Nominal	Maximum	Minimum	Units
		3000	20000	100	ms
Parameter Identity:	PS168	Description:	EIT 2/3 max repetition interval		
		Nominal	Maximum	Minimum	Units
		60000	120000	100	ms
Parameter Identity:	PS169	Description:	SDTT(H) max repetition interval		
		Nominal	Maximum	Minimum	Units
		234000	400000	1000	ms
	ISDB_T	360000	400000	1000	ms
Parameter Identity:	PS17	Description:	NIT other network min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
Parameter Identity:	PS170	Description:	SDTT(H) min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS171	Description:	SDTT(L) max repetition interval		
		Nominal	Maximum	Minimum	Units
		234000	400000	1000	ms
	ISDB_T	360000	400000	1000	ms
Parameter Identity:	PS172	Description:	SDTT(L) min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS174	Description:	PCR_FO/DR low-pass filter cutoff frequency		
		Nominal	Maximum	Minimum	Units
		10	10000	1	mHz
Parameter Identity:	PS175	Description:	EIT Schedule segment size setting (size = 2^x)		
		Nominal	Maximum	Minimum	Units
		3	6	3	Integer >= 0
Parameter Identity:	PS176	Description:	Splice information table missing test interval		
		Nominal	Maximum	Minimum	Units
		600000	1200000	1000	ms
Parameter Identity:	PS177	Description:	Splice information table max repetition interval		

Table 2–2: Parameter reference (Cont.)

		Nominal	Maximum	Minimum	Units
		600000	1200000	1000	ms
Parameter Identity:	PS178	Description:	PCR trend graph sample period		
		Nominal	Maximum	Minimum	Units
		1000	60000	500	ms
Parameter Identity:	PS179	Description:	SDT actual max subtable repetition interval		
		Nominal	Maximum	Minimum	Units
		2000	30000	500	ms
Parameter Identity:	PS18	Description:	NIT other network max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	30000	1000	ms
Parameter Identity:	PS180	Description:	PCR nominal bitrate (0 for use average)		
		Nominal	Maximum	Minimum	Units
		0	214000000	0	Integer >= 0
Parameter Identity:	PS181	Description:	PCR_OJ/AC high-pass filter cutoff (0 for same as DR/FO filter cutoff)		
		Nominal	Maximum	Minimum	Units
		100	10000	0	mHz
Parameter Identity:	PS19	Description:	NIT other network obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS2	Description:	Min overall bit rate		
		Nominal	Maximum	Minimum	Units
		64000	300000000	64000	bps
Parameter Identity:	PS20	Description:	SDT actual min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS200	Description:	Lock Limit		
		Nominal	Maximum	Minimum	Units
		1	1	0	Integer >= 0
Parameter Identity:	PS201	Description:	MER abs limit		
		Nominal	Maximum	Minimum	Units
		0	60	0	dB
Parameter Identity:	PS202	Description:	MER drift Limit		
		Nominal	Maximum	Minimum	Units

Table 2–2: Parameter reference (Cont.)

		30000	30000	0	mdB/hr
Parameter Identity:	PS203	Description:	EVM abs limit		
		Nominal	Maximum	Minimum	Units
		100	100	1	%
Parameter Identity:	PS204	Description:	EVM drift limit		
		Nominal	Maximum	Minimum	Units
		30000	30000	0	m%/hour
Parameter Identity:	PS205	Description:	BER Pre RS abs		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9
Parameter Identity:	PS206	Description:	BER pre RS drift		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9/hr
Parameter Identity:	PS207	Description:	BER PRE Viterbi abs Limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9
Parameter Identity:	PS208	Description:	BER pre viterbi drift limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9/hr
Parameter Identity:	PS209	Description:	BER post RS abs limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9
Parameter Identity:	PS21	Description:	SDT actual max repetition interval		
		Nominal	Maximum	Minimum	Units
		2000	30000	500	ms
	ISDB_T	2600	30000	500	ms
Parameter Identity:	PS210	Description:	BER Post RS drift limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9/hr
Parameter Identity:	PS211	Description:	TEF abs limit		
		Nominal	Maximum	Minimum	Units
		10000000	10000000	0	TEFs/hr
Parameter Identity:	PS212	Description:	TEF drift limit		
		Nominal	Maximum	Minimum	Units
		10000000	10000000	0	TEFs/hr/hr
Parameter Identity:	PS213	Description:	power high limit		

Table 2–2: Parameter reference (Cont.)

		Nominal	Maximum	Minimum	Units
		0	10	–40	dBm
Parameter Identity:	PS214	Description:	power low limit		
		Nominal	Maximum	Minimum	Units
		–120	0	–120	dBm
Parameter Identity:	PS215	Description:	power drift limit		
		Nominal	Maximum	Minimum	Units
		100000	100000	0	mdBm/hr
Parameter Identity:	PS216	Description:	SNR limit		
		Nominal	Maximum	Minimum	Units
		0	100	0	dB
Parameter Identity:	PS217	Description:	SNR drift		
		Nominal	Maximum	Minimum	Units
		100000	100000	0	mdB/hr
Parameter Identity:	PS218	Description:	CNR limit		
		Nominal	Maximum	Minimum	Units
		0	100	0	dB
Parameter Identity:	PS219	Description:	CNR drift		
		Nominal	Maximum	Minimum	Units
		100000	100000	0	mdB/hr
Parameter Identity:	PS22	Description:	SDT actual obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS220	Description:	carrier offset limit		
		Nominal	Maximum	Minimum	Units
		1000000	1000000	0	Hz
Parameter Identity:	PS221	Description:	carrier offset drift limit		
		Nominal	Maximum	Minimum	Units
		10000	10000	0	Hz/hr
Parameter Identity:	PS222	Description:	MER abs warning limit		
		Nominal	Maximum	Minimum	Units
		0	60	0	dB
Parameter Identity:	PS223	Description:	MER drift warning limit		
		Nominal	Maximum	Minimum	Units
		30000	30000	0	mdB/hr
Parameter Identity:	PS224	Description:	EVM warning limit		

Table 2–2: Parameter reference (Cont.)

		Nominal	Maximum	Minimum	Units
		100	100	1	%
Parameter Identity:	PS225	Description:	EVM drift warning limit		
		Nominal	Maximum	Minimum	Units
		30000	30000	0	m%/hour
Parameter Identity:	PS226	Description:	BER PRE RS warning limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9
Parameter Identity:	PS227	Description:	BER PRE RS drift warning		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9/hr
Parameter Identity:	PS228	Description:	BER PRE viterbi warning limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9
Parameter Identity:	PS229	Description:	BER PRE viterbi drift warning limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9/hr
Parameter Identity:	PS23	Description:	SDT other min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS230	Description:	BER POST RS warning limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9
Parameter Identity:	PS231	Description:	BER POST RS drift warning limit		
		Nominal	Maximum	Minimum	Units
		100000000	100000000	1	per 10e9/hr
Parameter Identity:	PS232	Description:	TEF rate warning limit		
		Nominal	Maximum	Minimum	Units
		10000000	10000000	0	TEFs/hr
Parameter Identity:	PS233	Description:	TEF rate drift warning limit		
		Nominal	Maximum	Minimum	Units
		10000000	10000000	0	TEFs/hr/hr
Parameter Identity:	PS234	Description:	Power high warning limit		
		Nominal	Maximum	Minimum	Units
		0	10	-40	dBm

Table 2–2: Parameter reference (Cont.)

Parameter Identity:	PS235	Description:	Power low warning limit		
		Nominal	Maximum	Minimum	Units
		–120	0	–120	dBm
Parameter Identity:	PS236	Description:	power drift warning limit		
		Nominal	Maximum	Minimum	Units
		100000	100000	0	mdBm/hr
Parameter Identity:	PS237	Description:	SNR warning limit		
		Nominal	Maximum	Minimum	Units
		0	100	0	dB
Parameter Identity:	PS238	Description:	SNR drift warning limit		
		Nominal	Maximum	Minimum	Units
		100000	100000	0	mdB/hr
Parameter Identity:	PS239	Description:	CNR warning limit		
		Nominal	Maximum	Minimum	Units
		0	100	0	dB
Parameter Identity:	PS24	Description:	SDT other max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	30000	1000	ms
Parameter Identity:	PS240	Description:	CNR drift warning limit		
		Nominal	Maximum	Minimum	Units
		100000	100000	0	mdB/hr
Parameter Identity:	PS241	Description:	Carrier offset warning limit		
		Nominal	Maximum	Minimum	Units
		1000000	1000000	0	Hz
Parameter Identity:	PS242	Description:	Carrier offset drift warning limit		
		Nominal	Maximum	Minimum	Units
		10000	10000	0	Hz/hr
Parameter Identity:	PS243	Description:	PIM max repetition interval		
		Nominal	Maximum	Minimum	Units
		1500	30000	1000	ms
Parameter Identity:	PS244	Description:	PIM obsolescence count		
		Nominal	Maximum	Minimum	Units
		10	100	5	integer > 0
Parameter Identity:	PS245	Description:	PNM max repetition interval		
		Nominal	Maximum	Minimum	Units
		1500	30000	1000	ms

Table 2–2: Parameter reference (Cont.)

Parameter Identity:	PS246	Description:	PNM obsolescence count		
		Nominal	Maximum	Minimum	Units
		10	100	5	integer > 0
Parameter Identity:	PS247	Description:	NIM max repetition interval		
		Nominal	Maximum	Minimum	Units
		1500	30000	1000	ms
Parameter Identity:	PS248	Description:	NIM obsolescence count		
		Nominal	Maximum	Minimum	Units
		10	100	5	integer > 0
Parameter Identity:	PS249	Description:	NTM max repetition interval		
		Nominal	Maximum	Minimum	Units
		1500	30000	1000	ms
Parameter Identity:	PS25	Description:	SDT other obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS250	Description:	NTM obsolescence count		
		Nominal	Maximum	Minimum	Units
		10	100	5	integer > 0
Parameter Identity:	PS251	Description:	VCM max repetition interval		
		Nominal	Maximum	Minimum	Units
		1500	30000	1000	ms
Parameter Identity:	PS252	Description:	VCM obsolescence count		
		Nominal	Maximum	Minimum	Units
		10	100	5	integer > 0
Parameter Identity:	PS253	Description:	STM max repetition interval		
		Nominal	Maximum	Minimum	Units
		1500	30000	1000	ms
Parameter Identity:	PS254	Description:	STM obsolescence count		
		Nominal	Maximum	Minimum	Units
		10	100	5	integer > 0
Parameter Identity:	PS26	Description:	EIT actual PF min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS27	Description:	EIT actual PF max repetition interval		
		Nominal	Maximum	Minimum	Units

Table 2–2: Parameter reference (Cont.)

		2000	30000	500	ms
Parameter Identity:	PS28	Description:	EIT actual PF obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS29	Description:	EIT other PF min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS3	Description:	Max overall bit rate		
		Nominal	Maximum	Minimum	Units
		300000000	300000000	64000	bps
Parameter Identity:	PS30	Description:	EIT other PF max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	100000	1000	ms
Parameter Identity:	PS31	Description:	EIT other PF obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS32	Description:	EIT actual schedule min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS33	Description:	EIT actual schedule max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	120000	2000	ms
	ISDB_T	120000	120000	2000	ms
Parameter Identity:	PS34	Description:	EIT actual schedule obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS35	Description:	EIT other schedule min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS36	Description:	EIT other schedule max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	600000	2000	ms
	ISDB_T	360000	600000	2000	ms

Table 2–2: Parameter reference (Cont.)

Parameter Identity:	PS37	Description:	EIT other schedule obsolescence count		
		Nominal	Maximum	Minimum	Units
	25	100	5	integer > 0	
Parameter Identity:	PS38	Description:	RST min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
Parameter Identity:	PS39	Description:	TDT min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
Parameter Identity:	PS4	Description:	PID bit rate bin duration (bit rate is over 10 bins)		
		Nominal	Maximum	Minimum	Units
		100	310	20	ms
Parameter Identity:	PS40	Description:	TDT max repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	120000	5000	ms
Parameter Identity:	PS41	Description:	TOT min repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	10	ms
	ISDB_T	0	100	10	ms
Parameter Identity:	PS42	Description:	TOT max repetition interval		
		Nominal	Maximum	Minimum	Units
		30000	120000	5000	ms
Parameter Identity:	PS43	Description:	BAT min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
Parameter Identity:	PS44	Description:	BAT max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	50000	2000	ms
Parameter Identity:	PS45	Description:	BAT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS46	Description:	STT max section repetition interval		
		Nominal	Maximum	Minimum	Units
		1000	60000	250	ms
Parameter Identity:	PS47	Description:	MGT max section repetition interval		
		Nominal	Maximum	Minimum	Units

Table 2–2: Parameter reference (Cont.)

		150	2000	50	ms
Parameter Identity:	PS48	Description:	VCT max subtable repetition interval		
		Nominal	Maximum	Minimum	Units
		400	3000	50	ms
Parameter Identity:	PS49	Description:	RRT max section repetition interval		
		Nominal	Maximum	Minimum	Units
		60000	120000	5000	ms
Parameter Identity:	PS5	Description:	PID bit rate bin count for variability		
		Nominal	Maximum	Minimum	Units
	3	10	1	integer > 0	
Parameter Identity:	PS50	Description:	EIT 0 max repetition interval		
		Nominal	Maximum	Minimum	Units
		500	20000	50	ms
Parameter Identity:	PS51	Description:	EIT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS52	Description:	ETT max repetition interval		
		Nominal	Maximum	Minimum	Units
		500	20000	50	ms
Parameter Identity:	PS53	Description:	ETT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS54	Description:	MIP max repetition interval		
		Nominal	Maximum	Minimum	Units
		1500	3000	500	ms
Parameter Identity:	PS55	Description:	MIP synch time stamp jitter limit		
		Nominal	Maximum	Minimum	Units
		300	20000	100	ns
Parameter Identity:	PS57	Description:	PID reference transition time		
		Nominal	Maximum	Minimum	Units
		1000	5000	200	ms
Parameter Identity:	PS59	Description:	Min stream bit rate for processing		
		Nominal	Maximum	Minimum	Units
		64000	300000000	64000	bps
Parameter Identity:	PS6	Description:	PID bit rate bin count for service log		
		Nominal	Maximum	Minimum	Units

Table 2–2: Parameter reference (Cont.)

		10	100	1	integer > 0
Parameter Identity:	PS61	Description:	CAT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS62	Description:	TSDT max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	30000	1000	ms
Parameter Identity:	PS63	Description:	TSDT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS64	Description:	MGT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS65	Description:	VCT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS66	Description:	RRT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS68	Description:	PCAT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS69	Description:	PCAT max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	30000	1000	ms
Parameter Identity:	PS7	Description:	Repetition interval history length		
		Nominal	Maximum	Minimum	Units
		32	256	1	integer > 0
Parameter Identity:	PS70	Description:	SDTT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS71	Description:	SDTT max repetition interval		
		Nominal	Maximum	Minimum	Units
		234000	400000	1000	ms
	ISDB_T	360000	400000	1000	ms
Parameter Identity:	PS72	Description:	BIT obsolescence count		

Table 2–2: Parameter reference (Cont.)

		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS73	Description:	BIT max subtable repetition interval		
		Nominal	Maximum	Minimum	Units
		2000	30000	100	ms
Parameter Identity:	PS8	Description:	PAT section max repetition interval		
		Nominal	Maximum	Minimum	Units
		500	5000	50	ms
	ATSC	100	5000	50	ms
Parameter Identity:	PS80	Description:	LIT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS81	Description:	LIT max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	30000	1000	ms
Parameter Identity:	PS82	Description:	ERT obsolescence count		
		Nominal	Maximum	Minimum	Units
		25	100	5	integer > 0
Parameter Identity:	PS83	Description:	ERT max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	30000	1000	ms
Parameter Identity:	PS84	Description:	ITT obsolescence count		
		Nominal	Maximum	Minimum	Units
	25	100	5	integer > 0	
Parameter Identity:	PS85	Description:	ITT max repetition interval		
		Nominal	Maximum	Minimum	Units
		10000	30000	1000	ms
Parameter Identity:	PS86	Description:	SDTT min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS87	Description:	BIT min section repetition interval		
		Nominal	Maximum	Minimum	Units
		25	100	0	ms
	ISDB_T	0	100	0	ms
Parameter Identity:	PS9	Description:	PMT section max repetition interval		

Table 2–2: Parameter reference (Cont.)

		Nominal	Maximum	Minimum	Units
		500	5000	50	ms
	ATSC	400	5000	40	ms
	ISDB_T	1300	5000	40	ms
Parameter Identity:	PS91	Description:	VCT max section repetition interval		
		Nominal	Maximum	Minimum	Units
		400	3000	50	ms
Parameter Identity:	PS94	Description:	CDT obsolescence count		
		Nominal	Maximum	Minimum	Units
		10	100	5	integer > 0
Parameter Identity:	PS95	Description:	CDT max subtable repetition interval		
		Nominal	Maximum	Minimum	Units
		600000	2340000	10000	ms
	ISDB_T	1200000	2340000	10000	ms
Parameter Identity:	PS96	Description:	CDT min section repetition interval		
		Nominal	Maximum	Minimum	Units
		0	100	0	ms

Event SNMP Traps

Table 2–3 shows the SNMP (Simple Network Management Protocol) traps available for each Event Identity. In the MTM400, traps are used to report alert or other asynchronous events generated by the core program. The MTM400 Programmer Manual describes the MIB (Management Information Base) which generates the SNMP traps.

***NOTE**. In Table 2–3 a '-' indicates that the information is currently unavailable.*

Table 2–3: Event SNMP traps

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
4096	0x1000	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4097	0x1001	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4098	0x1002	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4099	0x1003	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4100	0x1004	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4101	0x1005	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4128	0x1020	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4129	0x1021	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4130	0x1022	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4131	0x1023	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4144	0x1030	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4145	0x1031	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4146	0x1032	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4160	0x1040	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4161	0x1041	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4162	0x1042	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4163	0x1043	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4164	0x1044	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4352	0x1100	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4353	0x1101	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4354	0x1102	No	No	No	No	No	No	No	No	Yes	Yes
4355	0x1103	No	No	No	No	No	No	No	No	Yes	Yes
4356	0x1104	No	No	No	No	No	No	No	No	Yes	Yes
4357	0x1105	No	No	No	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
4608	0x1200	No	No	No	No	No	No	No	No	Yes	Yes
4609	0x1201	Yes	Yes	No	No	No	No	No	No	Yes	Yes
4610	0x1202	Yes	Yes	No	No	No	No	No	No	Yes	Yes
4611	0x1203	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4612	0x1204	Yes	No	Yes	No	No	No	No	No	Yes	Yes
4613	0x1205	No	No	No	No	No	No	No	No	Yes	Yes
4614	0x1206	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4615	0x1207	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4616	0x1208	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4617	0x1209	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4624	0x1210	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4625	0x1211	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4626	0x1212	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4627	0x1213	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4628	0x1214	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4629	0x1215	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
4630	0x1216	Yes	Yes	No	No	No	No	No	No	Yes	Yes
4631	0x1217	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
8192	0x2000	No	No	No	No	No	No	No	No	Yes	Yes
8193	0x2001	No	No	No	No	No	No	No	No	Yes	Yes
8194	0x2002	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
8195	0x2003	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes
8196	0x2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
8197	0x2005	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
8208	0x2010	No	No	No	No	No	No	No	No	Yes	Yes
8209	0x2011	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes
12305	0x3011	Yes	Yes	No	No	No	No	No	No	Yes	Yes
12306	0x3012	Yes	No	No	No	No	No	No	No	Yes	Yes
12308	0x3014	No	No	No	No	No	No	No	No	Yes	Yes
12310	0x3016	No	No	No	No	No	No	No	No	Yes	Yes
12311	0x3017	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
12312	0x3018	No	No	No	No	No	No	No	No	Yes	Yes
12313	0x3019	No	No	No	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
12321	0x3021	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12322	0x3022	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12324	0x3024	No	No	No	No	No	No	No	No	Yes	Yes
12325	0x3025	No	No	No	No	No	No	No	No	Yes	Yes
12326	0x3026	No	No	No	No	No	No	No	No	Yes	Yes
12328	0x3028	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12338	0x3032	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
12343	0x3037	No	No	No	No	No	No	No	No	Yes	Yes
12344	0x3038	No	No	No	No	No	No	No	No	Yes	Yes
12345	0x3039	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12346	0x303A	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
12347	0x303B	No	No	No	No	No	No	No	No	Yes	Yes
12352	0x3040	No	No	No	No	No	No	No	No	Yes	Yes
12353	0x3041	No	No	No	No	No	No	No	No	Yes	Yes
12354	0x3042	No	No	No	No	No	No	No	No	Yes	Yes
12355	0x3043	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12356	0x3044	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12357	0x3045	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12369	0x3051	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
12370	0x3052	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12371	0x3053	Yes	Yes	No	No	No	No	No	No	Yes	Yes
12372	0x3054	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
12544	0x3100	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes
12545	0x3101	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12546	0x3102	Yes	No	No	No	No	No	No	No	Yes	Yes
12547	0x3103	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
12548	0x3104	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12550	0x3106	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12551	0x3107	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12553	0x3109	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12561	0x3111	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12562	0x3112	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
12563	0x3113	Yes	No	Yes	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
12564	0x3114	Yes	No	No	No	No	No	No	No	Yes	Yes
12565	0x3115	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
12567	0x3117	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12568	0x3118	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12569	0x3119	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12570	0x311A	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12571	0x311B	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12572	0x311C	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12573	0x311D	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12574	0x311E	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12575	0x311F	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12576	0x3120	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12582	0x3126	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12583	0x3127	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12584	0x3128	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12585	0x3129	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12586	0x312A	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12587	0x312B	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12588	0x312C	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12589	0x312D	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12593	0x3131	No	No	No	No	No	No	No	No	Yes	Yes
12594	0x3132	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12595	0x3133	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
12596	0x3134	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12608	0x3140	No	No	No	No	No	No	No	No	Yes	Yes
12610	0x3142	No	No	No	No	No	No	No	No	Yes	Yes
12611	0x3143	No	No	No	No	No	No	No	No	Yes	Yes
12612	0x3144	No	No	No	No	No	No	No	No	Yes	Yes
12624	0x3150	No	No	No	No	No	No	No	No	Yes	Yes
12625	0x3151	No	No	No	No	No	No	No	No	Yes	Yes
12640	0x3160	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12801	0x3201	No	No	No	No	No	No	No	No	Yes	Yes
12802	0x3202	No	No	No	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
12803	0x3203	No	No	No	No	No	No	No	No	Yes	Yes
12804	0x3204	No	No	No	No	No	No	No	No	Yes	Yes
12805	0x3205	No	No	No	No	No	No	No	No	Yes	Yes
12806	0x3206	No	No	No	No	No	No	No	No	Yes	Yes
12808	0x3208	Yes	No	Yes	No	No	No	No	No	Yes	Yes
12816	0x3210	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
12817	0x3211	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
12818	0x3212	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
12819	0x3213	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
12848	0x3230	Yes	Yes	No	No	No	No	No	No	Yes	Yes
13088	0x3320	Yes	Yes	No	No	No	No	No	No	Yes	Yes
13104	0x3330	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13105	0x3331	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13106	0x3332	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13107	0x3333	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13312	0x3400	No	No	No	No	No	No	No	No	Yes	Yes
13313	0x3401	No	No	No	No	No	No	No	No	Yes	Yes
13315	0x3403	No	No	No	No	No	No	No	No	Yes	Yes
13316	0x3404	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
13328	0x3410	Yes	Yes	Yes	No	No	Yes	No	No	Yes	Yes
13329	0x3411	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
13330	0x3412	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13331	0x3413	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13332	0x3414	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
13333	0x3415	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
13334	0x3416	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
13568	0x3500	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13569	0x3501	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13570	0x3502	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13571	0x3503	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13572	0x3504	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13573	0x3505	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13574	0x3506	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
13575	0x3507	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13576	0x3508	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13577	0x3509	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
13578	0x350A	Yes	No	No	No	No	No	No	No	Yes	Yes
13579	0x350B	Yes	No	No	No	No	No	No	No	Yes	Yes
13580	0x350C	Yes	No	No	No	No	No	No	No	Yes	Yes
13581	0x350D	Yes	No	No	No	No	No	No	No	Yes	Yes
13582	0x350E	Yes	No	No	No	No	No	No	No	Yes	Yes
13583	0x350F	Yes	No	No	No	No	No	No	No	Yes	Yes
13584	0x3510	Yes	No	No	No	No	No	No	No	Yes	Yes
13585	0x3511	Yes	No	No	No	No	No	No	No	Yes	Yes
13587	0x3513	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13588	0x3514	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13589	0x3515	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13590	0x3516	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13591	0x3517	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13592	0x3518	Yes	No	Yes	No	No	No	No	No	Yes	Yes
13600	0x3520	No	No	No	No	No	No	No	No	Yes	Yes
13824	0x3600	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
14083	0x3703	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14084	0x3704	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14085	0x3705	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14086	0x3706	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14087	0x3707	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14088	0x3708	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14089	0x3709	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14090	0x370A	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14091	0x370B	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14092	0x370C	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14093	0x370D	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14094	0x370E	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14095	0x370F	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14096	0x3710	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
14097	0x3711	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14098	0x3712	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14099	0x3713	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14100	0x3714	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14101	0x3715	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14102	0x3716	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14103	0x3717	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14104	0x3718	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14105	0x3719	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14106	0x371A	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14107	0x371B	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14108	0x371C	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14110	0x371E	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14111	0x371F	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14112	0x3720	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14113	0x3721	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14119	0x3727	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14120	0x3728	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14121	0x3729	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14122	0x372A	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14123	0x372B	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14124	0x372C	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14125	0x372D	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14126	0x372E	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14127	0x372F	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14128	0x3730	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14129	0x3731	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14130	0x3732	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14131	0x3733	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14132	0x3734	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14133	0x3735	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14134	0x3736	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14135	0x3737	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
14136	0x3738	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14137	0x3739	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14138	0x373A	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14139	0x373B	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14140	0x373C	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14141	0x373D	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14142	0x373E	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14143	0x373F	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14145	0x3741	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14146	0x3742	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14147	0x3743	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14148	0x3744	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14155	0x374B	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14156	0x374C	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14157	0x374D	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14158	0x374E	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
14160	0x3750	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14161	0x3751	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14162	0x3752	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14163	0x3753	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14164	0x3754	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14165	0x3755	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14166	0x3756	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14167	0x3757	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14168	0x3758	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14169	0x3759	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14172	0x375C	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14173	0x375D	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14174	0x375E	No	No	No	No	No	No	No	No	Yes	Yes
14175	0x375F	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14176	0x3760	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14177	0x3761	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14178	0x3762	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
14179	0x3763	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14192	0x3770	Yes	No	Yes	No	No	No	No	No	Yes	Yes
14193	0x3771	Yes	No	Yes	No	No	No	No	No	Yes	Yes
14197	0x3775	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14198	0x3776	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14199	0x3777	Yes	No	Yes	No	No	No	No	No	Yes	Yes
14208	0x3780	Yes	No	No	No	No	No	No	No	Yes	Yes
14209	0x3781	Yes	No	Yes	No	No	No	No	No	Yes	Yes
14225	0x3791	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14226	0x3792	Yes	No	No	No	No	No	No	No	Yes	Yes
14233	0x3799	Yes	No	No	No	No	No	No	No	Yes	Yes
14234	0x379A	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14235	0x379B	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14236	0x379C	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14237	0x379D	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14238	0x379E	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14239	0x379F	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14240	0x37A0	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14241	0x37A1	No	No	No	No	No	No	No	No	Yes	Yes
14242	0x37A2	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14243	0x37A3	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14245	0x37A5	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14246	0x37A6	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14247	0x37A7	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14248	0x37A8	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14250	0x37AA	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14251	0x37AB	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14257	0x37B1	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes
14258	0x37B2	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14259	0x37B3	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14260	0x37B4	No	No	No	No	No	No	No	No	Yes	Yes
14261	0x37B5	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14262	0x37B6	Yes	Yes	No	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
14263	0x37B7	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14264	0x37B8	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14265	0x37B9	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14266	0x37BA	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14273	0x37C1	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14274	0x37C2	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14275	0x37C3	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14288	0x37D0	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14289	0x37D1	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14290	0x37D2	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14291	0x37D3	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14292	0x37D4	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14293	0x37D5	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14294	0x37D6	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14295	0x37D7	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14296	0x37D8	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14297	0x37D9	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14298	0x37DA	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14299	0x37DB	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14300	0x37DC	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14301	0x37DD	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14302	0x37DE	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14303	0x37DF	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14304	0x37E0	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14305	0x37E1	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14306	0x37E2	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14307	0x37E3	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14308	0x37E4	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14309	0x37E5	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14310	0x37E6	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14311	0x37E7	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14312	0x37E8	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14313	0x37E9	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
14314	0x37EA	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14315	0x37EB	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14316	0x37EC	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14317	0x37ED	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14318	0x37EE	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14319	0x37EF	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
14320	0x37F0	Yes	No	No	No	No	No	No	No	Yes	Yes
14321	0x37F1	Yes	No	No	No	No	No	No	No	Yes	Yes
14322	0x37F2	No	No	No	No	No	No	No	No	Yes	Yes
14323	0x37F3	No	No	No	No	No	No	No	No	Yes	Yes
14324	0x37F4	No	No	No	No	No	No	No	No	Yes	Yes
14325	0x37F5	No	No	No	No	No	No	No	No	Yes	Yes
14326	0x37F6	No	No	No	No	No	No	No	No	Yes	Yes
14327	0x37F7	No	No	No	No	No	No	No	No	Yes	Yes
14328	0x37F8	No	No	No	No	No	No	No	No	Yes	Yes
14329	0x37F9	No	No	No	No	No	No	No	No	Yes	Yes
14331	0x37FB	No	No	No	No	No	No	No	No	Yes	Yes
14332	0x37FC	No	No	No	No	No	No	No	No	Yes	Yes
14333	0x37FD	No	No	No	No	No	No	No	No	Yes	Yes
14336	0x3800	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14337	0x3801	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14338	0x3802	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14339	0x3803	Yes	Yes	No	No	No	No	No	No	Yes	Yes
14340	0x3804	Yes	Yes	No	No	No	Yes	No	No	Yes	Yes
14341	0x3805	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14342	0x3806	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14343	0x3807	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14344	0x3808	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14345	0x3809	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14346	0x380A	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14347	0x380B	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14348	0x380C	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14349	0x380D	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
14350	0x380E	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14351	0x380F	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14352	0x3810	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14353	0x3811	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14354	0x3812	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14355	0x3813	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14356	0x3814	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14357	0x3815	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14358	0x3816	No	No	No	No	No	No	No	No	Yes	Yes
14371	0x3823	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14372	0x3824	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14373	0x3825	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14374	0x3826	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14375	0x3827	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14376	0x3828	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14377	0x3829	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14378	0x382A	No	No	No	No	No	No	No	No	Yes	Yes
14384	0x3830	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14385	0x3831	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14386	0x3832	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14387	0x3833	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14388	0x3834	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14389	0x3835	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
14592	0x3900	No	No	No	No	No	No	No	No	Yes	Yes
14593	0x3901	No	No	No	No	No	No	No	No	Yes	Yes
14594	0x3902	No	No	No	No	No	No	No	No	No	Yes
14595	0x3903	No	No	No	No	No	No	No	No	Yes	Yes
20992	0x5200	Yes	No	No	No	No	No	No	No	Yes	Yes
20993	0x5201	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
20994	0x5202	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
20995	0x5203	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
20996	0x5204	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
24576	0x6000	No	No	No	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
24592	0x6010	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes
24608	0x6020	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes
24624	0x6030	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
24640	0x6040	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
24832	0x6100	No	No	No	No	No	No	No	No	Yes	Yes
24848	0x6110	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
24864	0x6120	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
24880	0x6130	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
24896	0x6140	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
24912	0x6150	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
25088	0x6200	No	No	No	No	No	No	No	No	Yes	Yes
25104	0x6210	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
25120	0x6220	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
25136	0x6230	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
25152	0x6240	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes
25344	0x6300	No	No	No	No	No	No	No	No	Yes	Yes
25345	0x6301	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
25360	0x6310	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
25376	0x6320	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
28671	0x6FFF	No	No	No	No	No	No	No	No	Yes	Yes
45072	0xB010	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
45312	0xB100	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49153	0xC001	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
49154	0xC002	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49155	0xC003	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49156	0xC004	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49157	0xC005	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49158	0xC006	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49159	0xC007	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49160	0xC008	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49161	0xC009	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49162	0xC00A	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49163	0xC00B	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes

Table 2–3: Event SNMP traps (Cont.)

Event Identity - Dec	Event Identity - Hex	Trap Raise	Trap Clear	PID	Service Type	Service Identity	Thresh-old	Actual	Error	Status	Stream
49164	0xC00C	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49165	0xC00D	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49166	0xC00E	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49167	0xC00F	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49168	0xC010	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49169	0xC011	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49170	0xC012	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49171	0xC013	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49172	0xC014	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49173	0xC015	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49174	0xC016	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49175	0xC017	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49176	0xC018	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49177	0xC019	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49178	0xC01A	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49179	0xC01B	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes
49180	0xC01C	No	No	No	No	No	No	No	No	Yes	Yes
49182	0xC01E	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes

Configuration File

Configuration File Structure

This appendix provides an overview of the MTM400 configuration file, which allows units to be completely configured or partially updated. If no configuration file is implemented, settings will use default values. Note that configuration files can be uploaded to the unit, but must be made active to have any effect.

The file is presented in XML (Extensible Markup Language) format. XML is a hierarchical language that can be interpreted by MTM400 units. It can be edited using either a simple text editor such as Microsoft NotePad, or a more sophisticated editor.

An XML configuration definition file (*.xsd) can be downloaded from the MTM400 by entering the following address in your browser address field:

http://<mtm400 address>/config.xsd

An XSD file, used in conjunction with an XML editor, will ensure that any proposed XML configuration file is valid. Examining the XSD file will reveal the complete range of available elements and attributes.

XML is formatted using elements and attributes, which are indicated in a document using tags. Tags begin with a '<' and close with a '>'. End tags include a '/' before the name of the element; empty tags include a '/' before the closing '>'. For example, the following section of a configuration file includes three elements: two elements with content, and one empty tag.

```
<LBandSettings Name = "Default">
                    <OscillatorFrequency>10600000</OscillatorFrequency>
                    <TransponderFrequency>11837000</TransponderFrequency>
                    <PolarVolts>0</PolarVolts>
                    <SymbolRate>27500000</SymbolRate>
                    <ViterbiRate>2</ViterbiRate>
                    <ViterbiRateAuto>1</ViterbiRateAuto>
                    <Tone22K>0</Tone22K>
                    <InvertSpectrum>1</InvertSpectrum>
</LBandSettings>
```

The <LBandSettings Name = "Default"> tag opens the LBandSettings element. The LBandSettings attribute, Name, is set to 'Default'. The LBandSettings element contains a number of discrete elements. This results in a nested structure. Any of the elements can contain further nested elements. The LBandSettings element is closed with the closing tag </LBandSettings>.

Configuration file sections can comprise arrays or ‘ever−present’ parameters.

- **Arrays** are lists or collections of related parameters, those relating to PIDs for example, and may or may not be present depending on the setup required.

In the extract shown below, an array of disabled events is allocated to PID number 0:

<PID Number=“0” ForcePresence=“0”>
<DisabledEvents>0x2004 0x2011 0x3017 0x3028 0x303a 0x3043 0x3044 0x3045 0x3117 0x3118 0x3124 0x3132 0x3133 0x3728</DisabledEvents>
</PID>

- **Ever-present** parameters always have current values in the MTM400, for example, <PI1> Interface Selection. They will never be deleted, but may be updated through the configuration file.

Updating

***NOTE**. The Update attribute is not used for ‘ever-present’ parameters.*

The Update attribute attached to a number of container elements allows members of a group to be completely replaced or partially updated.

For example, in the Programs group, each Program contains three parameters: <PV1>, <PV2>, and <PV3>.

- If the Programs Update attribute is set to Absolute (<Programs Update=“Absolute”>), values included in each Program container will completely replace the current values. Program values not explicitly stated in the configuration file will revert to default values. Table 3−1 shows an example.
- If the Programs Update attribute is set to Incremental (<Programs Update=“Incremental”>), values present in the configuration file will be created or overwrite the current values. Program values that have been previously set, but not included in this configuration file, will remain unchanged. Program values that do not exist in the current setup will be added. Table 3−2 shows an example.

Table 3–1: Absolute update – example

Current values	Configuration file values	Updated values
..... Program 1 PV1 = 98 kbit/s PV2 = 34 Mbit/s PV3 = PMT test disabled Program 2 PV1 = 110 kbit/s PV2 = 100 Mbit/s PV3 = PMT test disabled Program 3 PV1 = 75 kbit/s PV2 = 123 Mbit/s PV3 = PMT test disabled	..... <Programs Update="Absolute"> <Program Number="1"> <PV1>300000</PV1> <PV2>2000000</PV2> <PV3>0</PV3> </Program> <Program Number="3"> <PV1>400000</PV1> <PV2>100000000</PV2> <PV3>1</PV3> </Program> </Programs>	..... Program 1 PV1 = 300 kbit/s PV2 = 2 Mbit/s PV3 = PMT test disabled (Program 2 will use default values.) Program 3 PV1 = 400 kbit/s PV2 = 100 Mbit/s PV3 = PMT test enabled .....

Table 3–2: Incremental update – example

Current values	Configuration file values	Updated values
..... Program 1 PV1 = 98 kbit/s PV2 = 34 Mbit/s PV3 = PMT test disabled Program 2 PV1 = 110 kbit/s PV2 = 100 Mbit/s PV3 = PMT test disabled Program 3 PV1 = 75 kbit/s PV2 = 123 Mbit/s PV3 = PMT test disabled	..... <Programs Update="Incremental"> <Program Number="1"> <PV1>300000</PV1> <PV2>2000000</PV2> <PV3>0</PV3> </Program> <Program Number="3"> <PV1>400000</PV1> <PV2>100000000</PV2> <PV3>1</PV3> </Program> </Programs>	..... Program 1 PV1 = 300 kbit/s PV2 = 2 Mbit/s PV3 = PMT test disabled Program 2 PV1 = 110 kbit/s PV2 = 100 Mbit/s PV3 = PMT test disabled Program 3 PV1 = 400 kbit/s PV2 = 100 Mbit/s PV3 = PMT test enabled .....

For example, if the current active configuration contains the following section:

```
<LBandSettings Name = “Default”>
                <OscillatorFrequency>10600000</OscillatorFrequency>
                <TransponderFrequency>11837000</TransponderFrequency>
                <PolarVolts>0</PolarVolts>
                <SymbolRate>27500000</SymbolRate>
                <ViterbiRate>2</ViterbiRate>
                <ViterbiRateAuto>1</ViterbiRateAuto>
                <Tone22K>0</Tone22K>
                <InvertSpectrum>1</InvertSpectrum>
</LBandSettings>
```

and it is replaced, using a configuration file, with the following section:

```
<LBandSettings Update = “Absolute” Name = “Default”>
                <OscillatorFrequency>355000</OscillatorFrequency>
                <TransponderFrequency>24000</TransponderFrequency>
</LBandSettings>
```

the active configuration will be as follows:

```
<LBandSettings Update = “Absolute” Name = “Default”>
                <OscillatorFrequency>355000</OscillatorFrequency>
                <TransponderFrequency>24000</TransponderFrequency>
</LBandSettings>
```

The original section was, in effect, deleted and replaced with the new section. However, if the original section was replaced with the following section:

```
<LBandSettings Update = “Incremental” Name = “Default”>
                <OscillatorFrequency>355000</OscillatorFrequency>
                <TransponderFrequency>24000</TransponderFrequency>
</LBandSettings>
```

the active configuration will be as follows:

```
<LBandSettings Update = “Incremental” Name = “Default”>
                <OscillatorFrequency>355000</OscillatorFrequency>
                <TransponderFrequency>24000</TransponderFrequency>
                <PolarVolts>0</PolarVolts>
                <SymbolRate>27500000</SymbolRate>
                <ViterbiRate>2</ViterbiRate>
                <ViterbiRateAuto>1</ViterbiRateAuto>
                <Tone22K>0</Tone22K>
                <InvertSpectrum>1</InvertSpectrum>
</LBandSettings>
```

Note that the original section was modified, but those tags not specified in the updating file were left unchanged.

Defaults

Default values are ‘hardwired’ into the MTM400; they will be used when no value has been given using a configuration file. However for some elements, for example, <Program>, alternative default values can be supplied. If the defaults are supplied through the configuration file, all subsidiaries of that element will use those defaults unless specific values are given.

<!-- Program Default Parameters --> PV1 = 98 kbit/s PV2 = 34 Mbit/s PV3 = PMT test disabled	Program default values: all programs will adopt these values unless specific values are given.
<Programs Update=“Absolute”> <Program Number=“1234”> PV1 = 400 kbit/s PV2 = 100 Mbit/s PV3 = PMT test enabled </Program> </Programs>	Specific program values: these values will be adopted by Program 1234. All other programs will adopt the default values.

Example Configuration File

The following example configuration file is provided for information only. It is not intended to show *all* available elements and attributes; you can see these by examining the xsd definition file.

```
<?xml version="1.0" encoding="UTF-8"?>
<MTM400Configuration Name = "Telefonica_SubtableRepetitionTest"
xmlns:xsi="http://wwww3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="config.xsd">
        <Streams>
        <Stream Number="1">
                        <PI1>1</PI1>
                        <LBand Update = "Incremental" Selection = "Default">
                                <LBandSettings Name = "Default">
                                        <OscillatorFrequency>10600000</OscillatorFrequency>
                                        <TransponderFrequency>11837000</TransponderFrequency>
                                        <PolarVolts>0</PolarVolts>
                                        <SymbolRate>27500000</SymbolRate>
                                        <ViterbiRate>2</ViterbiRate>
                                        <ViterbiRateAuto>1</ViterbiRateAuto>
                                        <Tone22K>0</Tone22K>
                                        <InvertSpectrum>1</InvertSpectrum>
                                </LBandSettings>
                        </LBand>
                        <Qam Update = "Incremental" Selection = "QamADefault">
                                <QamSettings Name = "QamADefault">
                                        <Frequency>474000000</Frequency>
                                        <SymbolRate>7000000</SymbolRate>
                                        <TwoLoFrequency>43125000</TwoLoFrequency>
                                        <Constellation>2</Constellation>
                                        <Inversion>1</Inversion>
                                </QamSettings>
                        </Qam>
                        <BroadcastStandard>1</BroadcastStandard>
                        <DvbRegion>0</DvbRegion>
                        <TmccAcquisition>1</TmccAcquisition>
                        <MpeAcquisition>0</MpeAcquisition>
                        <ResetEvnentsOnSyncAcquired>0</ResetEventsOnSyncAcquired>
                        <MonitorRepetitionRates>0</MonitorRepetitionRates>
                        <PcrAccuracyMode>1</PcrAccuracyMode>
                        <OS1>60000</OS1>

                        <!-- Stream Miscellaneous Parameters -->
                        <PS58>sh117</PS58>
                        <PS60>0</PS60>

                        <!-- Stream Integer Parameters -->
                        <PS2>64000</PS2>
                        <PS3>155000000</PS3>
                        <PS5>1</PS5>
                        <PS6>10</PS6>
                        <PS7>32</PS7>
                        <PS10>25</PS10>
                        <PS11>32</PS11>
                        <PS12>256</PS12>
```

```
<PS16>25</PS16>
<PS19>25</PS19>
<PS22>25</PS22>
<PS25>25</PS25>
<PS28>25</PS28>
<PS31>25</PS31>
<PS34>25</PS34>
<PS37>25</PS37>
<PS45>25</PS45>
<PS51>25</PS51>
<PS53>25</PS53>
<PS55>300</PS55>
<PS59>64000</PS59>
<PS61>25</PS61>
<PS63>25</PS63>
<PS64>25</PS64>
<PS65>25</PS65>
<PS66>25</PS66>
<PS68>25</PS68>
<PS70>25</PS70>
<PS72>25</PS72>
<PS74>25</PS74>
<PS76>25</PS76>
<PS78>25</PS78>
<PS80>25</PS80>
<PS82>25</PS82>
<PS84>25</PS84>
<PS92>10</PS92>

<!-- Stream Interval Parameters -->
<PS1>1000</PS1>
<PS4>100</PS4>
<PS8>530</PS8>
<PS9>500</PS9>
<PS13>10000</PS13>
<PS14>50</PS14>
<PS15>6700</PS15>
<PS17>25</PS17>
<PS18>10000</PS18>
<PS20>50</PS20>
<PS21>1700</PS21>
<PS23>25</PS23>
<PS24>10000</PS24>
<PS26>25</PS26>
<PS27>2100</PS27>
<PS29>25</PS29>
<PS30>10000</PS30>
<PS32>25</PS32>
<PS33>10000</PS33>
<PS35>25</PS35>
<PS36>10000</PS36>
<PS38>25</PS38>
<PS39>50</PS39>
<PS40>30100</PS40>
<PS41>50</PS41>
<PS42>31000</PS42>
```

```
<PS43>50</PS43>
<PS44>9000</PS44>
<PS46>1000</PS46>
<PS47>150</PS47>
<PS48>400</PS48>
<PS49>60000</PS49>
<PS50>500</PS50>
<PS52>500</PS52>
<PS54>1500</PS54>
<PS57>1000</PS57>
<PS62>10000</PS62>
<PS69>10000</PS69>
<PS71>10000</PS71>
<PS73>10000</PS73>
<PS75>20000</PS75>
<PS77>10000</PS77>
<PS79>20000</PS79>
<PS81>10000</PS81>
<PS83>10000</PS83>
<PS85>10000</PS85>
<PS86>25</PS86>
<PS87>25</PS87>
<PS88>25</PS88>
<PS89>25</PS89>
<PS90>25</PS90>
<PS91>999999999</PS91>
<PS93>10000</PS93>

<!-- Program Integer Default Parameters -->
<PV1>0</PV1>
<PV2>4294967295</PV2>
<PV3>1</PV3>

<!-- Pid Group Integer Default Parameters -->
<PG2>0</PG2>
<PG3>4294967295</PG3>

<!-- Pid Integer Default Parameters -->
<PP1>1</PP1>
<PP4>500</PP4>
<PP6>0</PP6>
<PP7>4294967295</PP7>
<PP8>10</PP8>
<PP11>25000</PP11>
<PP12>400</PP12>
<PP13>75</PP13>
<PP14>25</PP14>
<OP1>0</OP1>

<!-- Pid Interval Default Parameters -->
<PP2>40</PP2>
<PP3>100</PP3>
<PP5>700</PP5>

<!-- Pid Other Parameters -->
<PP9>0.000000</PP9>
```

```
                    <PS56>
                    </PS56>
                    <PIDS Update = “Incremental”>
                        <PID Number=“0” ForcePresence=“0”>
                            <DisabledEvents>0x3017 0x3028 0x3045 0x3117 0x3728</DisabledEvents>
                        </PID>
                        <PID Number=“110” ForcePresence=“0”>
                            <PP6>576000</PP6>
                            <PP7>8513779</PP7>
                        </PID>
                    </PIDS>
                    <Events Update = “Incremental”>
                        <Event ID=“0x1000”>
                            <Enabled>1</Enabled>
                            <AlarmSetting>0x0</AlarmSetting>
                        </Event>
                        (Events cut for brevity)
                        <Event ID=“0x6fff”>
                            <Enabled>1</Enabled>
                            <AlarmSetting>0x0</AlarmSetting>
                        </Event>
                    </Events>
                    <ServiceLog>
                        <PIDS></PIDS>
                    </ServiceLog>
                </Stream>
            </Streams>
        </MTM400Configuration>
```

WARNING

The following servicing instructions are for use only by qualified personnel. To avoid injury, do not perform any servicing other than that stated in the operating instructions unless you are qualified to do so. Refer to all safety summaries before performing any service.

Hardware Maintenance

Hardware Maintenance

This section describes the general care and service procedures for the MTM400 MPEG Transport Stream Monitor and includes the following subsections:

- *Preventive Maintenance* provides cleaning instructions.
- *Rack Mounting* provides instructions for installing the unit in a 19-inch equipment rack.
- *Removing and Replacing an Interface Board* provides instructions for adding an Interface board to the unit.
- *Battery Maintenance* provides instructions for replacing the batteries.
- *Repacking for Shipment* provides instructions for packing and shipping the MTM400 MPEG Transport Stream Monitor.

Preventive Maintenance

Protect the unit from adverse weather conditions. The unit is not waterproof.

CAUTION. *To avoid damage to the unit, do not expose it to sprays, liquids or solvents.*

Do not use chemical cleaning agents; they may damage the instrument. Avoid chemicals that contain benzene, toluene, xylene, acetone or similar solvents.

Preventive maintenance mainly consists of periodic cleaning. The unit should be cleaned as needed based on the operating environment.

Cleaning the Exterior

Clean the exterior surfaces of the instrument with a dry, lint-free cloth or a soft-bristle brush. If dirt remains, use a cloth or swab dampened with a 75% isopropyl alcohol solution. A swab is useful for cleaning in narrow spaces around the connectors. Do not use abrasive compounds on any part of the unit.

CAUTION. *Avoid getting moisture inside the unit during external cleaning. Use only enough cleaning solution to dampen the cloth or swab. Use a 75% isopropyl alcohol solution as a cleanser. To rinse, repeat the same process using a cloth dampened with de-ionized water.*

Rack Mounting

CAUTION. *Efficient cooling will be maintained in a rack-mounted unit if the air temperature at all intake air vents (inside the rack) does not exceed 40 °C.*

WARNING. *To avoid fire hazard, the MTM400 must be installed in the rack only as specified, and proper ventilation must be maintained.*

The MTM400 can be mounted in a standard 19-inch equipment rack.

The chassis components of the rack slides are attached during manufacture as shown in Figure 4–1:

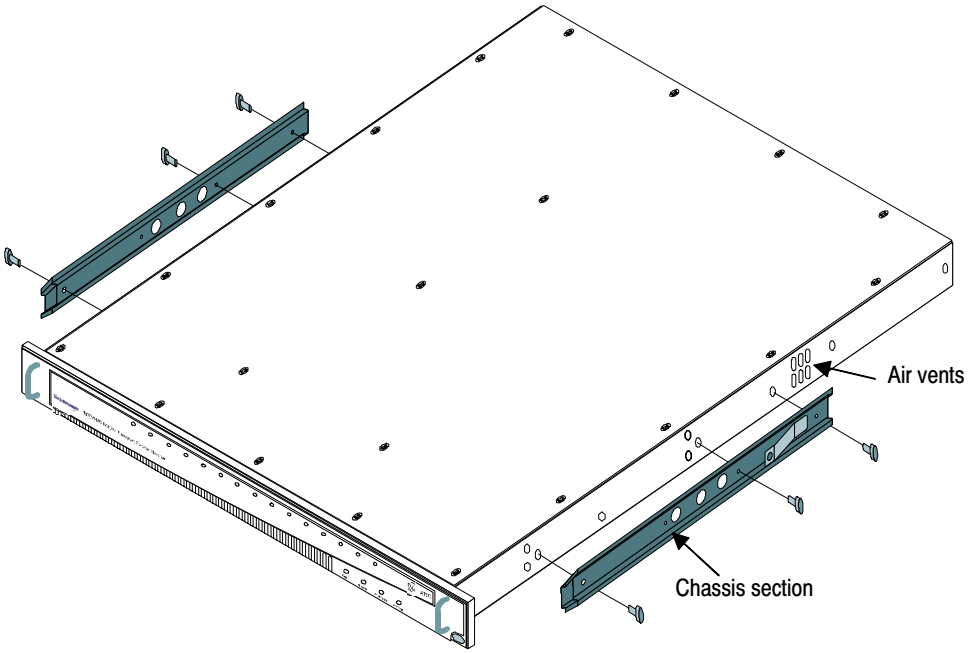


Figure 4–1: Chassis section rack slides

CAUTION. *If the right slide is replaced for any reason, it must not obstruct the adjacent air vents.*

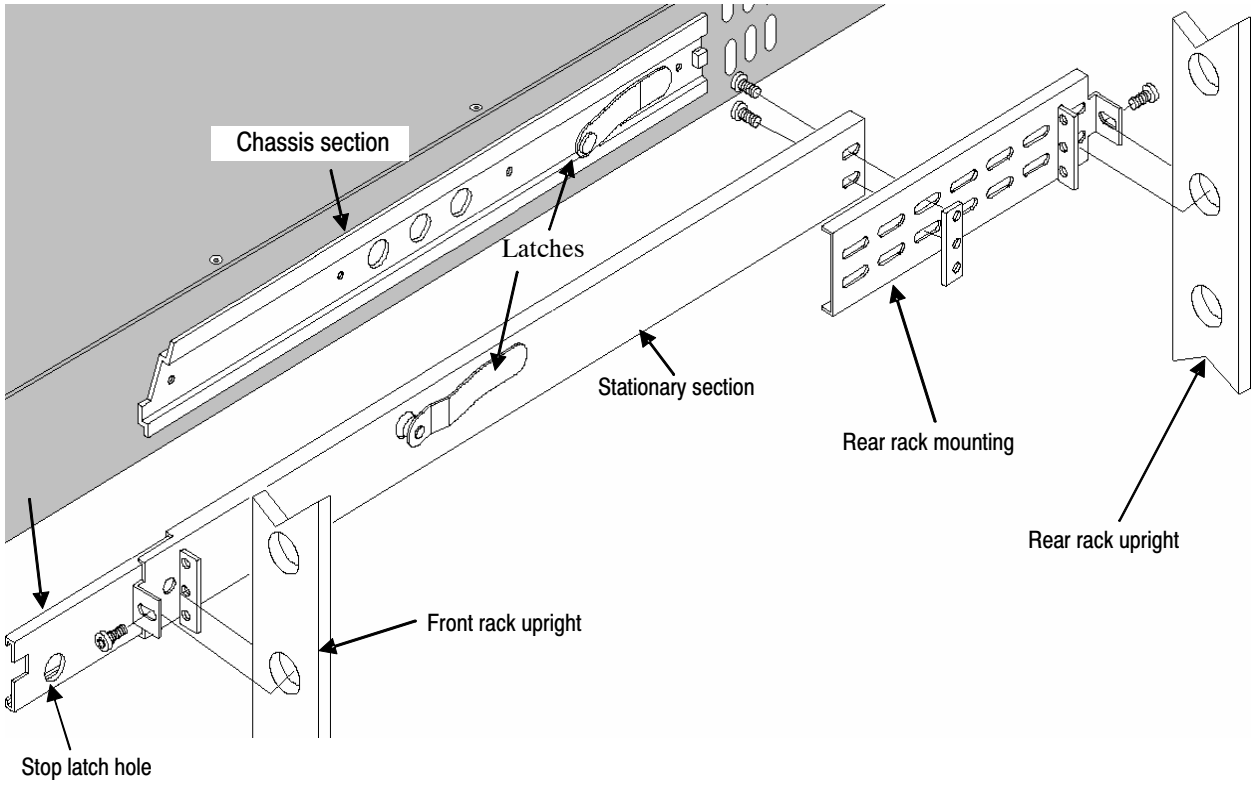


Figure 4–2: Rack mounted sections

The chassis section is already installed on the unit. The position of the rear rack mounting can be adjusted to suit the depth of the rack. Approximately six inches of clearance is required between the rear panel of the unit and any rear cabinet panel to allow for connector space and adequate air circulation.

Installing the MTM400 Unit

Refer to Figure 4–3 to install the unit in the rack.

1. Pull the slide-out track section to the fully extended position.
2. Insert the MTM400 chassis sections into the slide-out sections.
3. Press the stop latches and push the unit toward the rack until the latches snap into their holes.
4. Press the stop latches again and push the unit fully into the rack.
5. Tighten the front panel retaining screw.

Removing the MTM400 Unit

Refer to Figure 4–3 to remove the unit from the rack.

1. Loosen the front panel retaining screw and pull the unit out until the stop latches snap into the holes.
2. Press the stop latches and remove the unit.

When removing the unit from the rack, be sure to disconnect all cabling.

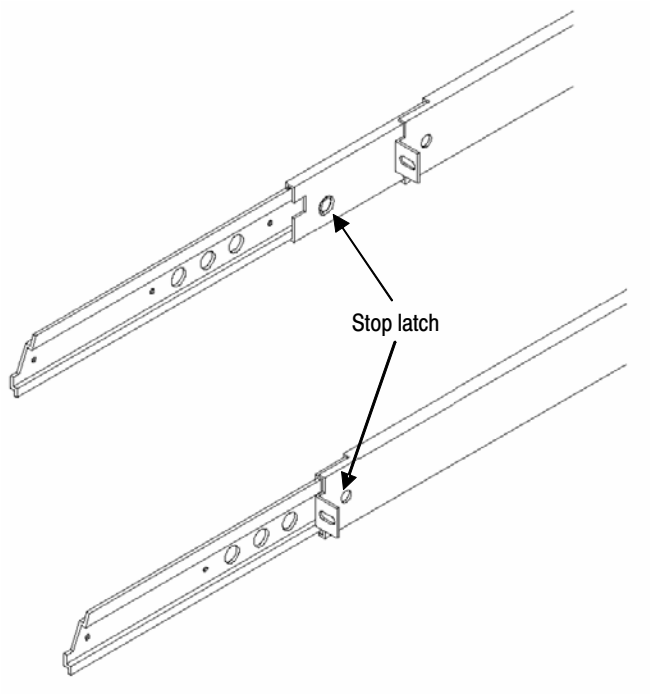


Figure 4–3: Installing or removing the rack slides

Rack Adjustments

After installation, if the slide tracks are not properly adjusted, they may bind. To adjust the tracks, slide the instrument out about 10 inches, slightly loosen the screws holding the tracks to the front rails, and allow the tracks to seek an unbound position. Retighten the screws and check the tracks for smooth operation by sliding the instrument in and out of the rack several times.

Once the instrument is in place within the rack, tighten the knurled retaining screw to fasten it securely into the rack.

Rack Slide Maintenance

The slide-out tracks do not require lubrication. The dark gray finish on the tracks is a permanent, lubricated coating.

Removing and Replacing an Interface Board

The following procedure describes how to access and replace an Interface board.

A range of interface boards is available for the MTM400; contact Tektronix for a full list of those available. The principles involved in removing and replacing an interface board is similar; any differences in the procedure are indicated in the following paragraphs.

WARNING. *To avoid personal injury or damage to the unit, do not operate without covers.*

Disconnect power to the unit before removing the covers or panels.

Do not operate this product with covers or panels removed.

CAUTION. *Only qualified personnel should perform this procedure. Read the* Service Safety Summary *and the* General Safety Summary *before performing this procedure.*

The following tools are recommended when removing and replacing MTM400 Interface board.

- An anti-static wrist-strap for safe handling of components containing static sensitive devices. It is advisable to wear the wrist-strap for all MTM400 maintenance activity.
- A screwdriver with T10, T15, and T20 TORX tips to remove the unit cover and module mounting screws

All connectors are polarized; they will only fit into their respective socket in one way. Do not use unnecessary force.

Accessing the Components

To access the replaceable components, the MTM400 must be disconnected and moved to a suitable working area.

Remove the Instrument Cover

1. Remove the 21 cover retaining screws (see Figure 4–4) and set them aside.
2. Lift the cover clear of the instrument.

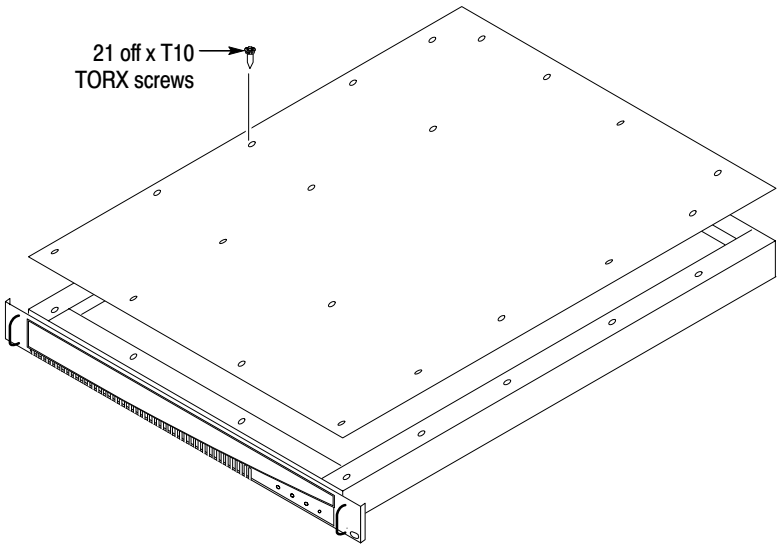


Figure 4–4: Removing the instrument cover

Remove the Installed Interface Board

3. Locate the interface board in your instrument (see Figure 4–5 and Figure 4–6 on page 4–8). The interface board is mounted on the right side of the instrument as viewed from the rear.
4. If your instrument does not have an interface board already installed, proceed to step 10 on page 4–11.
5. If your instrument has an interface board already installed, use Figure 4–5 and Figure 4–6 to determine which type of interface board is installed.

CAUTION. *To avoid incorrectly installing the interface board, be sure to follow the removal directions for the type of interface board that is installed in your instrument. There are two types of interface boards as shown in Figure 4–5 and Figure 4–6. Each board type has different cable connections.*

6. If a QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), or QPSK (L-Band) interface board is currently installed, perform the following steps. Table 4–1 describes the cable connections to these interface boards. Otherwise, proceed to step 7.
   a. Disconnect the two coaxial cables from the SMB connectors labeled I/P and O/P (see Figure 4–5). These are push-fit connectors.

b. If you are going to install a QAM (Annex B, new version), 8PSK, 8VSB, or COFDM interface board, completely remove the two coaxial cables by removing them from the connectors labeled I/P A and O/P A on the TS Processor board.

***NOTE**. Leave the two coaxial cables connected to the TS Processor board if you are going to install a QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), or QPSK (L-Band) interface board.*

c. Disconnect the eight-wire power cable from the connector labeled J7 on the interface board.

d. Proceed to step 8.

Table 4–1: QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), and QPSK (L-Band) board connectors

Figure 4–5 key	Interface board connection	Cable type	Connects to location	Function
1	P1	Eight wires	J7 on Power Distribution board	Power
2	O/P	Miniature coaxial	I/P A on TS Processor board	Data (serializer)
3	I/P	Miniature coaxial	O/P A on TS Processor board	Data (serializer)

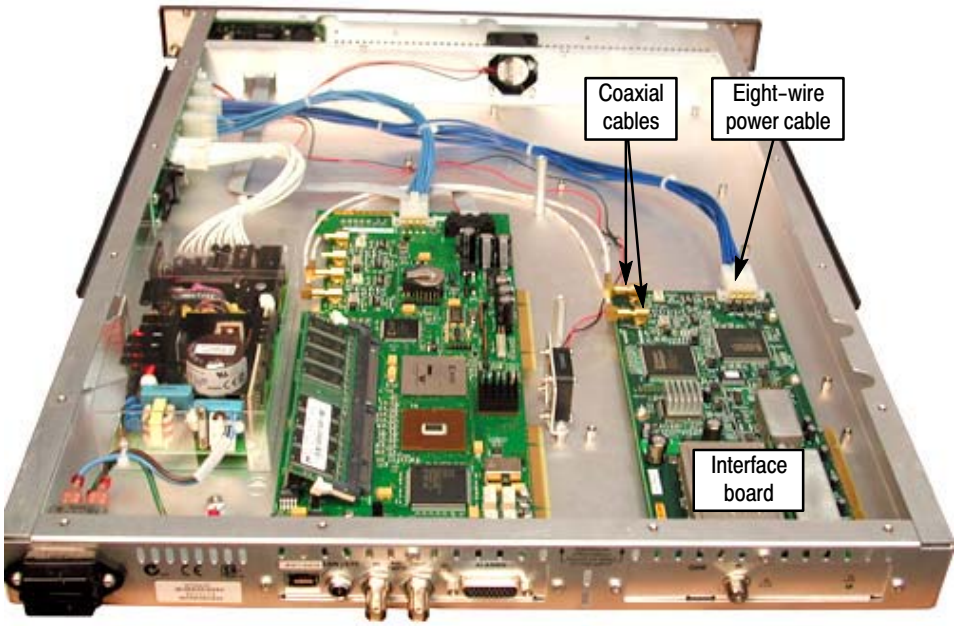


Figure 4–5: QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), and QPSK (L-Band) interface board location

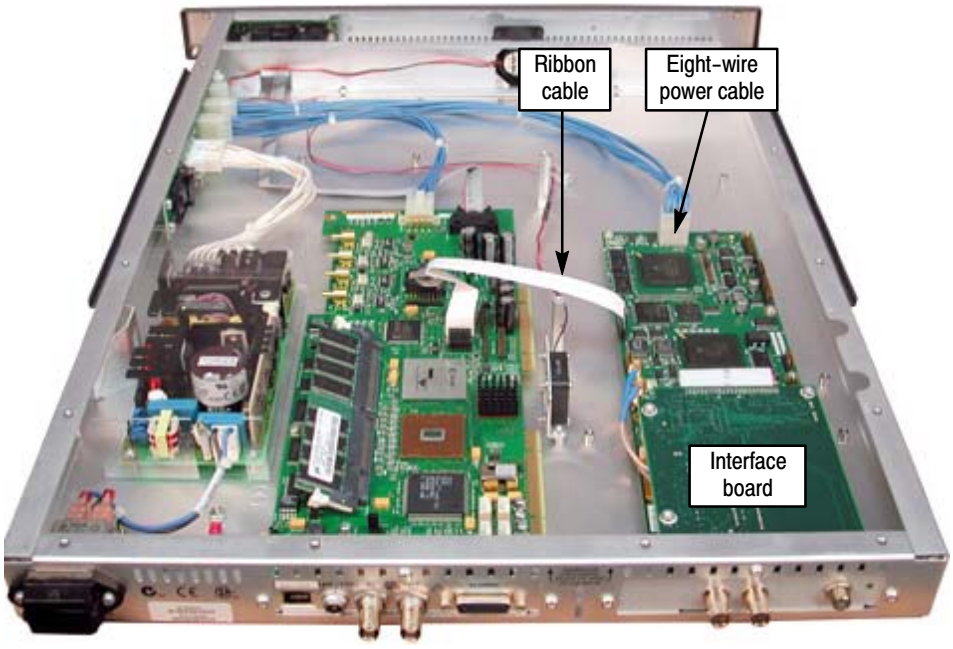


Figure 4–6: QAM (Annex B, new version), 8PSK, 8VSB, and COFDM interface board location

7. If a QAM (Annex B, new version), 8PSK, 8VSB, or COFDM interface board is currently installed, perform the following steps. Table 4–2 describes the cable connections to these interface boards.

   a. Disconnect the ribbon cable from the connector labeled J14 on the interface board (see Figure 4–6).

   b. If you are going to install a QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), or QPSK (L-Band) interface board, completely remove the ribbon cable by removing it from the connector labeled J750 on the TS Processor board.

***NOTE**. Leave the ribbon cable connected to the TS Processor board if your are going to install a QAM (Annex B, new version), 8PSK, 8VSB, or COFDM interface board.*

   c. Disconnect the eight-wire power cable from the connector labeled JR7 on the interface board.

Table 4–2: QAM (Annex B, new version), 8PSK, 8VSB, and COFDM interface board connectors

Interface board connection (see Figure 4–6)	Cable type	Connects to location	Function
JR1	Eight wires	J7 on Power Distribution board	Power
J14	Ribbon	J750 on TS Processor board	Data (serializer)

8. Remove the retaining screws from the interface board as described below:

   a. For QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), and QPSK (L-Band) interface boards, remove the four retaining screws from the board and remove the three retaining screws from the rear panel as shown in Figure 4–7.

   b. For QAM (Annex B, new version), 8PSK, 8VSB, and COFDM interface boards, remove the six retaining screws from the board and remove the three retaining screws from the rear panel as shown in Figure 4–8.

9. Lift the interface board clear of the instrument and place the board on a static-free surface.

***CAUTION.** To prevent static damage to the removed board, be sure to store the board in static-free packaging. Failure to properly store the board may result in the board needing repair before it will operate properly when reinstalled.*

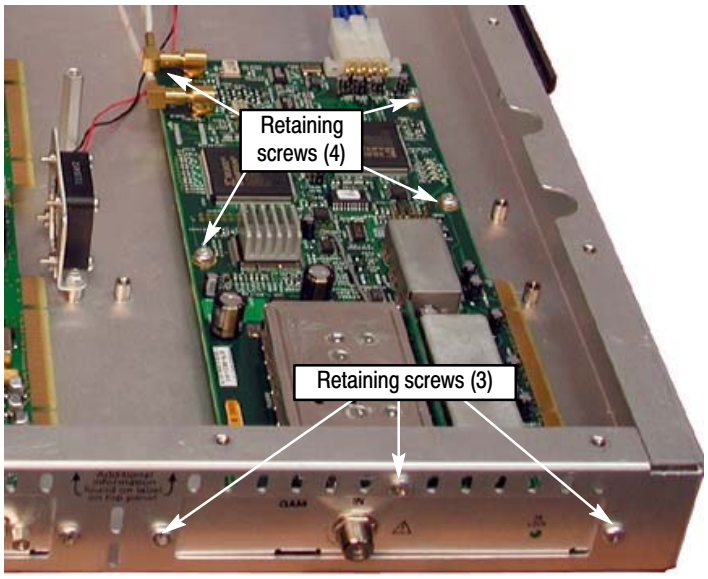


Figure 4–7: Retaining screw locations for QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), and QPSK (L-BAND) interface boards

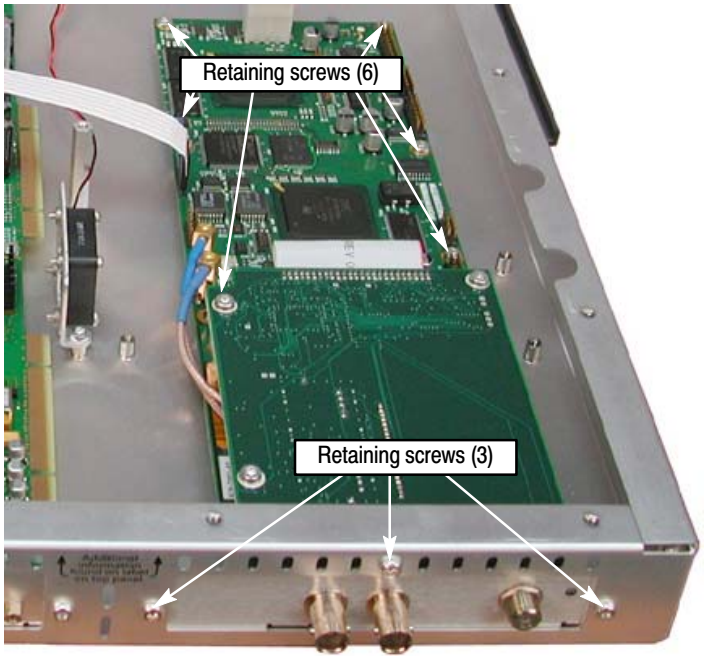


Figure 4–8: Retaining screw locations for QAM (Annex B, new version), 8PSK, 8VSB, and COFDM interface boards

Install the New Interface Board

10. If an interface board was not previously installed in the instrument, a blank cover is installed on the right side of the rear panel (as viewed from the rear of the instrument). If your instrument has a blank cover, remove the three retaining screws and remove the blank cover.

11. Place the new interface board into the right side of the instrument (as viewed from the rear of the instrument). See Figure 4–5 and Figure 4–6 on page 4–8.

12. Line up the mounting points and install the retaining screws as described below:

a. For QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), and QPSK (L-Band) interface boards, install the four retaining screws in the board and install the three retaining screws in the rear panel as shown in Figure 4–7.

b. For QAM (Annex B, new version), 8PSK, 8VSB, and COFDM interface boards, install the six retaining screws in the board and install the three retaining screws in the rear panel as shown in Figure 4–8.

13. Connect the signal and power cables as described below.

CAUTION. *To prevent damage to the interface board connectors, do not use unnecessary force to connect the cables. All of the connectors are polarized and they will only fit into their respective socket in one way.*

a. For QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), and QPSK (L-Band) interface boards, make the following cable connections. Refer to Table 4–1 on page 4–7 for a description of the cable connections for these interface boards.

- Connect one coaxial cable from the connector labeled O/P on the interface board to the connecter labeled I/P A on the TS Processor board. This is a push-fit connector. See Figure 4–9 for cable locations.
- Connect the other coaxial cable from the connector labeled I/P on the interface board to the connecter labeled O/P A on the TS Processor board.
- Connect the eight-wire power cable from P1 on the interface board to J7 on the Power Distribution board.

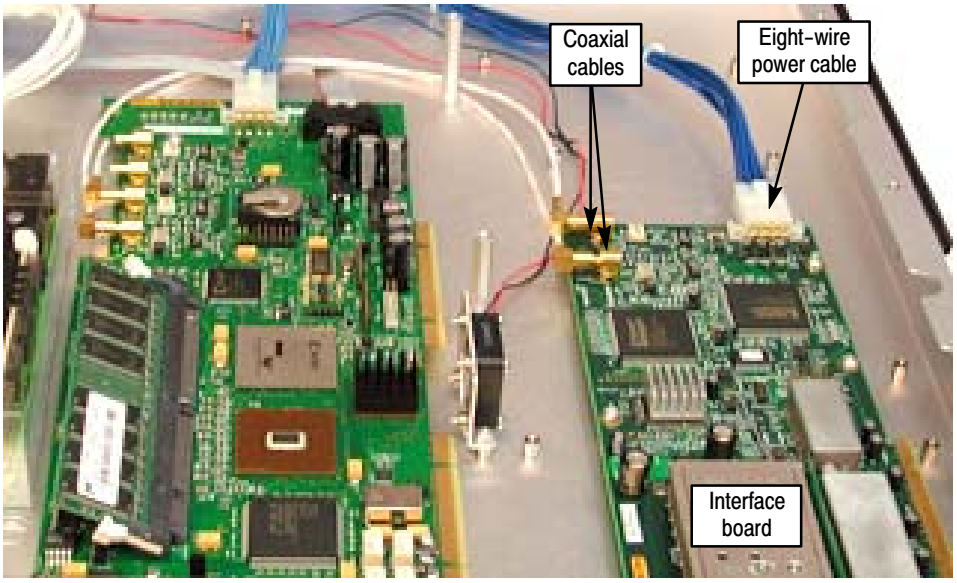


Figure 4–9: Cable connections for QAM (Annex A), QAM (Annex B, old version), QAM (Annex C), and QPSK (L-Band) interface boards

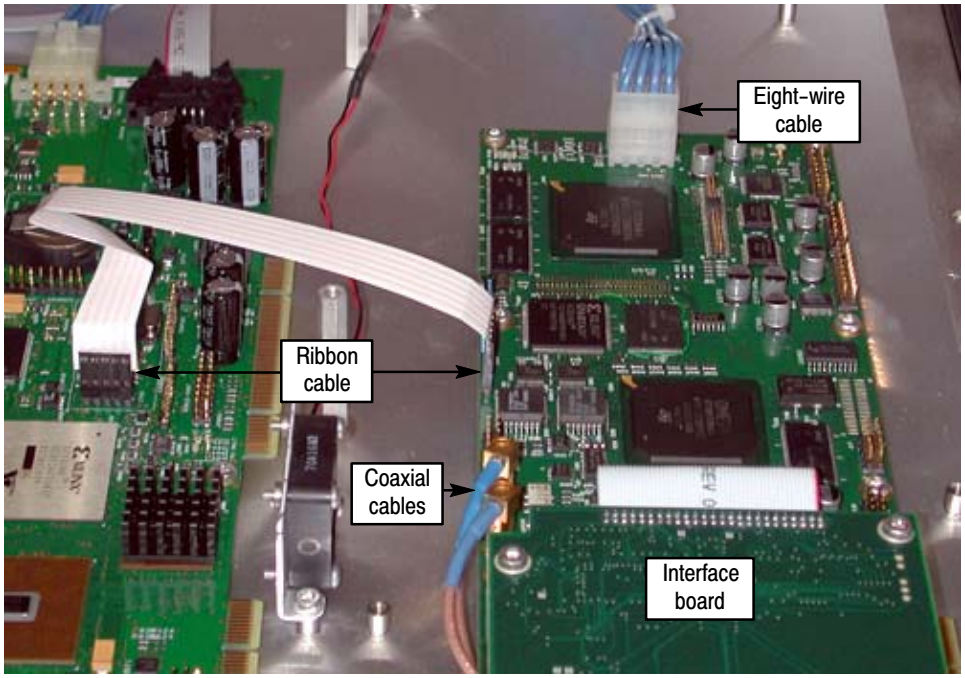


Figure 4–10: Cable connections for QAM (Annex B, new version), 8PSK, 8VSB, and COFDM interface boards

b. For QAM (Annex B, new version), 8PSK, 8VSB, and COFDM interface boards, make the following cable connections. Refer to Table 4–2 on page 4–9 for a description of the cable connections for these interface boards.

- Connect the ribbon cable from the connector labeled J14 on the interface board to the connecter labeled J750 on the TS Processor board. See Figure 4–10 for cable locations.
- Connect the eight-wire power cable from JR1 on the interface board to J7 on the Power Distribution board.
- Verify that the two coaxial cables on the interface board are firmly attached to their connectors.

14. Line up the instrument top cover and replace the 21 retaining screws (see Figure 4–4 on page 4–6).

Select the Interface

15. The Interface board will be detected and initialized when the MTM400 unit is switched on. Before the Interface board can be used, it must be selected through the user interface and an input must be provided.

Refer to the *MTM400 MPEG Transport Stream Monitor User Manual* for instructions on how to configure the Interface board using the Stream Configuration dialog box.

Battery Maintenance

The MTM400 unit uses a pair of Lithium batteries to provide power to the backup circuits when mains power is off. Under normal circumstances, the shelf life of the batteries is in excess of five years.

***NOTE**. The following precautions must be observed when replacing and handling the batteries:*

- *Batteries must only be replaced with the correct Tektronix part (refer to Table 1–25 on page 1–19).*
- *Both batteries must always be replaced.*
- *Batteries must be disposed of in accordance with local regulations.*

Replacing the Batteries

The batteries are mounted on the Transport Stream Processor board. It is only necessary to remove the top panel to gain access to the batteries.

***WARNING.** To avoid personal injury or damage to the unit, do not operate without covers.*

Disconnect power to the unit before removing the covers or panels.

Do not operate this product with covers or panels removed.

***CAUTION.** Only qualified personnel should perform this procedure. Read the* Service Safety Summary *and the* General Safety Summary *before performing this procedure.*

***NOTE**. When the batteries are depleted or removed, all configuration information will be lost, including the network address. The network installation procedure will have to be repeated (refer to* Network Installation *in the* MTM400 MPEG Transport Stream Monitor User Manual*).*

It is also recommended that you save the configuration information to a storage slot, since this will also be lost. Refer to the MTM400 MPEG Transport Stream Monitor User Manual *for instructions on how to save the configuration settings.*

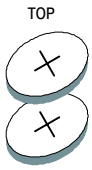
Perform the following steps to replace the batteries:

1. Remove the top panel (refer to *Remove the Instrument Cover* on page 4–6).
2. The batteries are held in a battery holder by a metal clip on the Transport Stream Processor board. Slide the batteries out of the holder.

CAUTION. *Dispose of the batteries in accordance with local regulations.*

Use only the specified battery (refer to Table 1–25 on page 1–19).

3. Replace the batteries. The positive symbol (+) should be on top as shown below.



4. Before replacing the cover, ensure that all components are in place and that all connections are secure.
5. Replace the 21 cover retaining screws and tighten them uniformly.
6. Reconnect the unit and apply power (refer to *Electrical Installation* in the *MTM400 MPEG Transport Stream Monitor User Manual*).
7. Reinstate the network identity of the unit (refer to *Network Installation* in the *MTM400 MPEG Transport Stream Monitor User Manual*).
8. If required, reinstate the configuration information. Refer to the *MTM400 MPEG Transport Stream Monitor User Manual* for instructions on how to restore the configuration settings.

Repacking for Shipment

If an instrument is to be shipped to a Tektronix field office for repair, attach a tag to the instrument showing the following:

- Owner's name and address
- Serial number
- Description of the problem(s) encountered and/or service required.

The MTM400 MPEG Transport Stream Monitor is shipped in cartons designed to provide it with the maximum protection. If you ship the instrument subsequently, you will need to use these cartons, the spacer pads, the protective bag, and the instrument support inserts to provide adequate protection.

CAUTION. *Tektronix cannot honor the instrument's warranties if the MTM400 arrives at the service center in a damaged condition. The unit must be packed in its original carton (and its supporting packaging material) or in such a way as to provide similar protection.*

To prevent the loss of your instrument's warranties, Tektronix strongly recommends that you use an MTM400 MPEG Transport Stream Monitor shipping carton (that is in good condition) when you ship your instrument to another location or when you return the instrument to a Tektronix service center for repair.

New packaging material is available from Tektronix. To obtain these items, contact your nearest Tektronix office or representative.

Glossary

Glossary

Program and **Service**: In this manual the terms program and service are interchangeable.

Accuracy
The closeness of the indicated value to the true value.

ARIB
Association of Radio Industries and Businesses

ASI
Asynchronous Serial Interface

ATSC
Advanced Television Systems Committee

BAT
Bouquet Association Table

BER
Bit Error Rate

CAT
Conditional Access Table

CRC
Cyclic Redundancy Check

CSV
Comma Separated Values

CVCT
Cable Virtual Channel Table

DNS
Domain Name Server

DVB
Digital Video Broadcasting

EIT
Event Information Table

EMM
Entitlement Management Message

ETT
Extended Text Table

EVM
Error Vector Magnitude

GMT
Greenwich Mean Time

GPSI
General Purpose Serial Interface

IIP
ISDB-T Information Packet

ISA
Integrated Systems Architecture

ISDB
Integrated Services Digital Broadcasting

LNB
Low Noise Block

MER
Modulation Error Ratio

MGT
Master Guide Table

MHEG
Multimedia and Hypermedia Experts Group

MPEG
Moving Picture Experts Group

NIT
Network Information Table

PAT
Program Association Table

PCI
Peripheral Component Interconnect

PCR
Program Clock Reference

PID
Packet Identifier

PMT
Program Map Table

PSIP
Program and System Information Protocol (ATSC)

PTS
Presentation Time Stamp

QAM
Quadrature Amplitude Modulation

QPSK
Quaternary Phase-Shift Keying
(also known as Quadrature Phase-Shift Keying)

RRT
Rating Region Table

RTM
Real-Time Monitor

RUI
Remote User Interface

SDT
Service Description Table

SI
Service Information (DVB)

SMC
Sub Miniature Connector

SMPTE
Society of Motion Picture and Television Engineers

SNMP
Simple Network Management Protocol

SSI
Synchronous Serial Interface

STT
System Time Table

TEF
Transport Error Flag

TMCC
Transmission and Multiplexing Configuration Control (ISDB-S)

TOT
Time Offset Table

TSDT
Transport Streams Description Table

TVCT
Terrestrial Virtual Channel Table

TVRO
Television Receive Only

UTC
Coordinated Universal Time

VCT
Virtual Channel Table

XML
Extensible Markup Language