

# Transport Stream Processing



## TS Monitor

Transport Stream Monitoring

The TS Monitor is a software product that operates on live Transport Streams or pre-captured files. It has applications in live systems and test facilities.

It provides a full breakdown of all the PIDs in the stream including type, number and the current timestamp. PCR discontinuities are detected and Continuity Count errors are flagged.

DVB subtitles and teletext can be decoded and displayed in the user interface video window.

Starfish Stream Monitor

File Help

Windows DekTec File

NIC Address: 192.168.36.44 Multicast Address: 239.31.60.13 Port: 5330 Start Capture

Services (5)

- Programme 1200
  - Descriptor: registration\_descriptor
    - PMT PID: 1200
  - PCR PID: 1209
    - PCR: 24:30:01.650
    - PCR interval: 37.76 mS
  - SCTE-35: National
  - PES packets containing private data
  - Audio: ISO/IEC 11172
  - Video: ITU-T Rec. H.262 | ISO/IEC
- Programme 1210
- Programme 1220
- Programme 1230
- Programme 1240
- NULL PID
  - Bit Rate: 8648000 bps (23.40%)
- SDT Table
  - Transport Stream Id: 330
  - Original Network: 1
  - Service: 1200
    - EIT Schedule Flag: No
    - EIT Present Following Flag: No
    - Running Status: 4
    - Free CA Mode: No
    - Descriptor: service\_descriptor
      - Service Type: digital television
      - Service Provider: E-Play Test F
      - Service Name: TV4 Göteborg

17:07:18.299 - Suspending CC checking for PID: 1226  
17:07:18.302 - Suspending CC checking for PID: 1228  
17:07:18.304 - Suspending CC checking for PID: 1229  
17:07:18.307 - Suspending CC checking for PID: 1230  
17:07:18.309 - Suspending CC checking for PID: 1236  
17:07:18.312 - Suspending CC checking for PID: 1238  
17:07:18.317 - Suspending CC checking for PID: 1239  
17:07:18.320 - Suspending CC checking for PID: 1240  
17:07:18.322 - Suspending CC checking for PID: 1246  
17:07:18.324 - Suspending CC checking for PID: 1248  
17:07:18.327 - Suspending CC checking for PID: 1249  
17:07:18.485 - CC Error on PID: 17, CC: 10, Expected: 6, Packet: 6414942  
17:07:18.487 - CC Error on PID: 18, CC: 14, Expected: 12, Packet: 6414946  
17:07:23.381 - Restoring CC checking for PID: 1200 after 1 Errors  
17:07:23.384 - Restoring CC checking for PID: 1201 after 1 Errors  
17:07:23.386 - Restoring CC checking for PID: 1206 after 1 Errors  
17:07:23.389 - Restoring CC checking for PID: 1208 after 1 Errors  
17:07:23.391 - Restoring CC checking for PID: 1209 after 3 Errors  
17:07:23.394 - Restoring CC checking for PID: 1210 after 1 Errors  
17:07:23.396 - Restoring CC checking for PID: 1216 after 1 Errors  
17:07:23.399 - Restoring CC checking for PID: 1219 after 2 Errors  
17:07:23.401 - Restoring CC checking for PID: 1220 after 1 Errors  
17:07:23.403 - Restoring CC checking for PID: 1226 after 1 Errors  
17:07:23.406 - Restoring CC checking for PID: 1228 after 1 Errors  
17:07:23.408 - Restoring CC checking for PID: 1229 after 3 Errors  
17:07:23.411 - Restoring CC checking for PID: 1230 after 1 Errors  
17:07:23.413 - Restoring CC checking for PID: 1236 after 1 Errors  
17:07:23.415 - Restoring CC checking for PID: 1238 after 1 Errors  
17:07:23.418 - Restoring CC checking for PID: 1239 after 3 Errors  
17:07:23.420 - Restoring CC checking for PID: 1240 after 1 Errors  
17:07:23.423 - Restoring CC checking for PID: 1246 after 1 Errors  
17:07:23.426 - Restoring CC checking for PID: 1248 after 1 Errors  
17:07:23.428 - Restoring CC checking for PID: 1249 after 3 Errors  
17:07:25.834 - CC Error on PID: 16, CC: 5, Expected: 4, Packet: 6590512

Event Log DVB Subtitles Teletext

Bit Rate: 35994499 / 32493184 (87.93%)

## Key features

- Operates on real-time MPEG1 and 2, H264 and HEVC/H265 encoded transport streams or pre-captured files
- Real-time streams can be recorded for further analysis
- Detailed breakdown of the transport stream contents by PIDs and services, including analysis of tables and descriptors
- PCR analysis
- Error reporting for non-conformant input material, including PCR, PTS and Continuity Count error checking
- Offline monitoring creates an XML file containing the salient details of the monitored file
- Real-time display of DVB subtitles and teletext carried in the transport stream
- SCTE-35 monitoring (program insertion cueing messages)
- Displays instantaneous bit rate and provides an indication window which shows the overall bit rate in green, and the active bit rate in red. The difference between the two are the NULL packets sent out to pad the overall bit rate to a constant value
- Support for IP stream as standard, with ASI stream monitoring an option.

## Hardware requirements

TS Monitor is a Windows based application and will run on any recent Windows Server or Workstation operating system.

## Associated products

TS Monitor is one of a family of Transport Stream processing products available from Starfish Technologies Ltd. These products can be utilised as standalone applications, or integrated within other Starfish products and systems. Please see [www.starfish.tv](http://www.starfish.tv) for more details.

***All specifications and minimum requirements are subject to change without prior notice. Please check before purchase.***