

Release Notes



MTS4CC Elementary Stream Compliance Checker 071-2076-01

This document applies to software version 1.0.2

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Release Notes

MTS4CC Elementary Stream Compliance Checker is a powerful real-time analytical tool for the investigation of compressed video data that has been encoded using the H.264/AVC, MPEG-2, MPEG 4, VC-1, and H.263 video standards. The MTS4CC compliance checker operates as a standalone software application for use on a personal computer (PC) in a Microsoft Windows environment. It can also be installed on the MTS400 MPEG Test Systems.

These release notes provide the following information:

- Related User Documentation
- Enhancements
- Known Issues
- Platforms

Related User Documentation

The following user documentation supports MTS4CC software version 1.0:

- *MTS4CC ES Compliance Checker User Manual* (English)
Tektronix part number 020-2753-00
(includes MTS4CC software CD)
- *MTS4CC ES Compliance Checker Tutorials*
Tektronix part number 001-1415-00
(available in the online help and from the Tektronix Web site, www.tek.com/manuals)

Minor Enhancements

MTS4CC Elementary Stream Compliance Checker, Software version 1.0.2.0.

H.264/AVC

- JM code base updated to version 12.0.
- SEI message parsing added to the Stream Structure view.
- New checks added for the VUI when an SPS is repeated.
- Decode speed improved.
- “Aborting slice decode” problems with some streams fixed.
- “Too many macroblocks per second” alert updated to account for the change in the 2005 edition of the H.264/AVC standard.
- Misinterpretation of hypothetical field rate as a frame rate corrected.
- Incorrect errors for out of range values of mb_qp_delta removed.
- Incorrect parsing of pan-scan rectangle SEI message fixed.

MPEG-4

- Support added for Simple profile Levels 4a and 5.

Other

- Stream auto detection algorithms improved to reduce false matches.

Known Issues

H.264/AVC

The following H.264/AVC stream issues are known:

- An incorrect warning about a repeated SPS is issued if the SPS has been changed in a newly coded video sequence.
- Non 8-bit I_PCM blocks are not fully supported and may cause incorrect decode errors and visual artifacts.
- Frame timings shown in the summary tooltip for streams with HRD information may be incorrect. This does not affect the HRD calculations.
- There is an artificial limit of 396 on the number of slices that may be present in a picture.

Platforms

The MTS4CC software has been verified with the following Microsoft operating systems and security patches:

Table 1: Verified Platforms

Operating system	Security patches
Microsoft Windows 2000	Windows 2000 Service Pack 4
Microsoft Windows XP Professional	SP2
Microsoft Windows XP Home	SP1

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