MTSA-HW and MTSA-PC
MPEG Test System
Release Notes

This document supports software installer version 3.3.2.
www.telestream.net

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Release notes

This document describes new features, improvements, and limitations of MTSA-HW and MTSA-PC software installer version 3.3.2.

New features and improvements

- Support for MTSA MPEG Test Systems MTSA-HW and MTSA-PC
- Licensing model for the MTSA applications is changed from dongle-based licensing to software-based licensing
- Transport Stream Compliance Analyzer with AC4 audio and Dolby Vision support
- Buffer Analyzer with MP4 AAC support
- Multiplexer with AC4 audio support
- PES Analyzer with scrambled PID analysis support

**NOTE:** The Carousel Analyzer and Generator has been removed from this release. If your application depends on these features it is not recommended that you install this software. Contact technical support if you need assistance.

MPEG Player issues

- **Quad ASI Card Drops TS Packets**
  The Quad ASI card drops TS packets that have a TS Sync Byte in error. To playout the errored packets without dropping it, play in Non-TS mode. To receive packets with a TS Sync Byte in error, analyze with "Timestamp=TRUE".

- **PCR Init Value – Different for Each Start of Play**
  The MPEG Player uses the values set in the "PCR Init Value" dialog, only for the first playout. In subsequent playouts, this value is not used. To force the MPEG Player to use the value set in the "PCR Init Value", close and restart the application.

- **Progress Bar Not Accurate for 204 Byte Packet Size**
  When playing out TS packets of 204-byte packet size, the progress bar shown in the MPEG Player may not be accurate.
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Concurrent analysis behavior

It is possible to have multiple instances of the TSCA running at the same time. However, this behavior should be noted:

- Triggers are saved on restarting analysis. The effect of setting a trigger in an instance and restarting analysis will be to cause the trigger to be inherited in other instances when analysis is restarted in those instances.

- When a parameter is modified in one instance, it will be inherited in other instances when analysis is restarted in those instances.

- When multiple instances of the TSCA are analyzing in real-time, restarting the analysis using the "Restart" icon may not always work. It is recommended to start analysis using the appropriate interface from the "Real-time" icon, rather than using the "Restart" icon.

Connection to VLAN sessions using a NIC

The VLAN tag will not appear in the TSCA analysis.

If you need to analyze VLAN sessions, you must update to the latest driver for the NIC adapters and add a DWORD registry entry.

For a PCI-Express network adapter, add a DWORD entry “MonitorMode” to a value of 1 within:

```
HKEY_LOCAL_MACHINE\SYSTEM\Control\Set001\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}\00xx
```

where xx is the instance of the network adapter.

For a PCI/PCI-Extended network adapter, add a DWORD entry “MonitorModeEnabled” to a value of 1 within:

```
HKEY_LOCAL_MACHINE\SYSTEM\Control\Set001\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}\00xx
```

where xx is the instance of the network adapter.

All the IP interfaces on the MTSA Analyzer including those on the 10Gig card are PCI-Express cards and hence require the MonitorMode DWORD to be added.
ES Analyzer issues

Only partially decodes 4:2:2 Profile@HighLevel file

4:2:2 Profile@HighLevel files are only partially supported by ES Analyzer.

Regedit error when launching ES Analyzer

The ES Analyzer application requires that it always be run in administrator mode. Follow these steps to make the necessary changes:

- Select the ESAnalyzer icon, right-click, and select Properties.
- Open the Compatibility tab and check “Run this program as an administrator”.
- Select OK to close the Properties.

Multiplexer issues

- When section bitfields are edited, the CRC field does not refresh automatically to reflect the change. The CRC change would be visible only after the stream is multiplexed. It would be also available if the stream is exported as a .muxml file, and imported back.

- Elementary stream within other containers, such as *.h264, *.MP4, Fluxmux and others, are not directly supported.

- Incomplete access units (for the last access unit), will be dropped during multiplexing.

- On looping small files, the PAT and PMT table stop time resets to the start time. The repetition interval then becomes zero because there is only one occurrence in each of these table sections.

- The multiplexer does not consider the start time of the stream when adjusting the PTS/DTS values of the elementary stream. A work around for this is to enter a DTS offset for the PID equal to its lag against the PCR PID.

- Altering some stream properties (like duration) does not affect other stream properties. For example, other PIDs do not automatically adjust to new transport stream durations automatically. However, the stream properties can be set manually.