# LTN VMA

Video Metadata Analyzer

LTN Video Metadata Analyzer (VMA) is a diagnostic tool and a monitoring probe used to extract, log, and analyze metadata and ancillary data in video streams. LTN VMA accepts both uncompressed and compressed video streams. Multiple inputs can be grouped into a service so that all metadata collected for a service, regardless of stream source, can be analyzed together.

An intuitive diagnostics tool

The VMA intuitive web interface makes it easy to inspect metadata details and splice point timings. For example, the image below shows that the blue SCTE-104 message points to a green splice point in the future. That green splice point should correspond to the yellow shift in the VITC — time code counter that jumps when the content source changes from programming to advertisement — but the splice point occurs 12 frames too soon. This results in a bad splice with the previous program segment being cut too short.

Likewise, this next picture shows the frame with the red border that is at the PTS time where a splice in a compressed transport stream will occur. Although that frame is a key IDR frame, the splice point should reference a PTS at least 3 frames earlier when the picture was black.
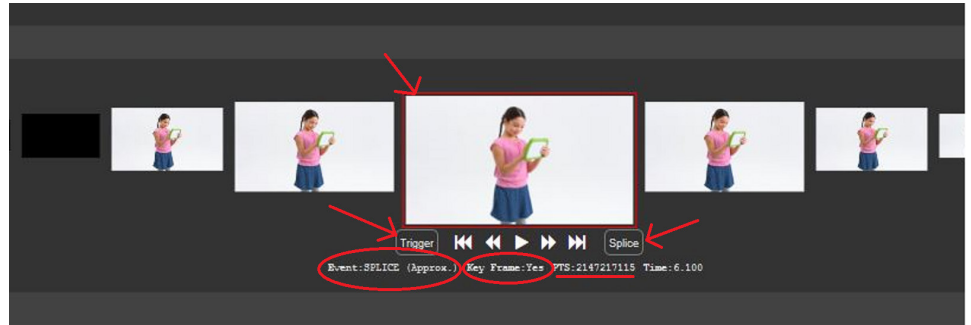
A metadata probe and transport stream analyzer

VMA is also a logger and probe for metadata, as well as TR 101 290 alarms. All the details of messages and Transport Stream errors are logged and grouped by service.

Alarm notifications and automated actions can be triggered when actual metadata differ from expected presence and values.