Cerify Automated Video Content Verification System
Release Notes for software version 7.9.1
077-0752-06

www.tektronix.com

Contacting Tektronix
  Tektronix, Inc.
  14150 SW Karl Braun Drive
  P.O. Box 500
  Beaverton, OR 97077
  USA

Cerify technical support is available on business days from 6:00 AM to 5:00 PM Pacific Time and from 9:00 AM to 5:00 PM Indian Standard Time at the following numbers:

- US/Canada toll-free   1-844-219-5329
- India toll-free   1800 3000 4835
- Europe* toll-free   00800-22554411
- Russia toll-free   810800-22554411
- United Kingdom   44 1344 39 2541

*Austria, Belgium, France, Germany, Ireland, Italy, Netherlands, Spain, Sweden, Switzerland, and UK.

Alternatively, we can be contacted through email at the following address: cerify-support@tektronix.com.

****

Release Notes

These release notes provide the following information:

 - List of the new Cerify features available in software version 7.9
 - List of important defect fixes that have been made in version 7.9

CAUTION. To prevent loss of data in the unlikely event of the database becoming corrupted, it is strongly recommended that you regularly back up the Cerify database. See the Database Backup section of the Cerify User Manual for details of how to do this.

Related User Documentation

The following user documentation applies to Cerify version 7.9:

  - "Cerify Automated Video Content Verification System User Manual"
    (English) Tektronix part number: 077-0352-13
  - "Cerify Automated Video Content Verification System Quick Start User Manual"
    (English) Tektronix part number: 071-2680-09
  - "Cerify Automated Video Content Verification System Software License
    Notices" (English) Tektronix part number: 001-1513-02

No Japanese user documentation is provided with this release.

****
Cerify version 7.9

General notes

  New features

  This software release includes the following major features:

    - H.265/HEVC video format support has been added.
    - A new test to detect Audio Glitch has been added in the Audio template.
    - A new tab for "History view" has been added, which gives details about
      throughput of the system.

  Dongle reprogramming

  License dongles that are currently being used with Cerify version 7.8.2 can
  be used with version 7.9 without needing an update. License dongles that are
  currently being used with all other Cerify versions (older than 7.8.2) require
  an update of the dongle to v7.8.2 prior to being able to use v7.9. In this
  case, please make sure to update your Cerify license dongle before installing
  v7.9 as your Cerify system will cease to operate on v7.9 with the older license
  dongle until you get the license dongle updated to v7.8.2.

  Also note, all users with a valid Cerify Annual Software Maintenance contract
  are eligible to receive the base features included in this version without any
  additional cost.

  Licensing for the optional HA (Supervisor high availability functionality) is
  an additional cost. Please call your Tektronix Sales representative if you
  wish to add HA feature to your existing Cerify system.

  To obtain the license updates needed by your Cerify system to use this new
  version, send the c2v file of your Cerify dongle to the following address:
  cerify-asm@tek.com.

  Cerify demo dongles need to be updated to version 7.8.2 in order to use the
  new features in v7.9.

  Users upgrading from older versions do not need to export and re-import the
  Cerify database. The upgrade of the database is performed as part of the
  upgrade install except in the case where an existing non-HA version of
  Cerify is upgraded to an HA Enterprise cluster option. In this situation,
  an in-place upgrade is not available.

Cerify-Release-Notes-7.9.1

Product enhancements

   - H.265/HEVC Format

     Support has been added for H.265/HEVC video with 4K formats. A new
     video template has been added for HEVC. Both standard reference decoder
     and optimized decoder are available for HEVC video processing. TS and
     MP4 containers are supported for HEVC.

   - Audio Glitch Test

     A new test for detecting Audio Glitch artifacts has been added in audio
     template. This test is available for all the supported audio formats.

   - Microsoft Smooth Streaming format

     Audio/video decoding support is added for Microsoft Smooth Streaming
     files for AVC video and AAC audio formats. An option is provided to
     select the video track to be processed, using the video bit rate.

   - Improved Audio/Video Tests

     Cerify v7.9 has had the following improvements made to audio/video
     testing:
      - Tape artifacts test has been enhanced with an option for high
        sensitivity.
      - RGB component test has been enhanced with a new option for
        ITU-R BT.2020-1 color space conversion.
      - "PPM Level Maximum" test has been enhanced with UI controls
        for enabling use of "relative offset". The allowed range for
        relative offset is from -30 dBFS to +30 dBFS.

   - New Container Tests

     Cerify v7.9 has had the following improvements made to container
     testing:
      - A new check to select the video track to be processed has been
        added in the Microsoft Smooth Streaming container template.
      - Partial checks test has been added in the Microsoft Smooth Streaming
        container template.
      - A new test has been added in QuickTime container template to detect
        the presence and validity of Sync sample and Sample Dependency Flags
        tables.

   - DPP Features

     Following DPP features are supported for DPP compliance check:

      - Feature 5: Number of partitions that contain essence
      - Feature 8: Number of Picture Tracks in the Material
        Package (Rule 180)
      - Feature 9: Number of Sound Tracks in the Material
        Package (Rule 210)
      - Feature 10: Sound Track numbering (Rule 250)

- History View

  The History view shows the throughput of the system, which is the
  "number of files processed" by Cerify (irrespective of whether the
  test passed or failed), excluding the files aborted during processing.
  Data is collected at hourly intervals (beginning from the Cerify
  start time). Data for the running month is retained at all times.
    - Day View shows throughput information for the preceding 30 days,
      including the current day.
    - Week View shows throughput information for the preceding 4 weeks,
      including the current week.

- Other enhancements

    - In "Mail Settings", the "server' setting has been enhanced with
      an option for a user specified SMTP port number.
    - A new column for "Node type" has been added in the Media Test
      Units page. Node type can be Active Supervisor or Standby
      Supervisor or Supervisor or MTU.
    - A new column for "number files being processed" by the node is
      added in Media Test Units page.

- Performance improvements
    - Performance optimizations for missing frame test, tape artifacts
      test and RGB components test.

Defect fixes

- Cerify was not detecting BWF audio in some MXF files.
- Cerify was raising memory allocation failures for some TS files.
- Cerify raised fatal errors for some TS files.
- Not able to open report hyperlink, due to issues hostname/ipaddress.
- Issue in Cerify Properties Updater.
- Issue in Cerify SMB processing.
- Cerify secondary supervisor job issue.
- When hostname starts with numbers, hostname was not accepted by the
  Cerify installer.
- Cerify was raising fatal errors while processing some MXF files with
  DPP profiles.
- Cerify was not able to detect Tape Dropout/Combing Artifacts in some
  files which were being detected in older version of Cerify.
- Cerify was detecting an MP3 file as MPEG-1 audio file.
- Issue in GetJobStatus CeriTalk API.
- Time zone issue in JRE.
- Files from higher priority jobs were in waiting state until all the
  files from the earlier created jobs of lower priority were run to
  completion.
- Issue in processing some AVC files in MP4 container.
- Cerify was taking more time to process some AVC-Intra files.
- Cerify was raising more PSE alerts than Harding FPA product while
  processing some DNxHD files.
- Minor issue in the UI of video type (cadence) test.