Video Clarity

Tools for Video Analysis

RTM Manager with Automated File QoE

Summary

RTM Manager is a browser based control, status and set up solution included with Video Clarity RTM systems, software or cloud instance. The Manager is providing an easy to use interface accessible from any network attached to the platform with the RTM application installed. The RTM Manager web server publishes the browser pages outlined below. One or more RTMs can be individually accessed with set up and status dashboard for RTM test routines applied to accessible video as baseband or compressed streams. The latest addition to RTM Manager includes setting up and running automated quality tests for multiple files in a batch from one or more network attached file locations.

Jobs

The RTM Manager Jobs page shows applied jobs entered into the General Settings list for RTM tests being run on files:

- Submitted and pending jobs are shown for each individual test input into the General Settings list shown on page 2.

- Provides the start time, file name, and type of test being run on each source and processed file pair.

- Gives status time and status notes for each test.

- The user may open a live graph of the video or lip sync metric showing actual test scores as they happen on files or incoming media streams being tested.

Video Clarity RTM Manager - Jobs

Tools for Video Analysis version 20180330 (S4K-108) Status   Control   Lip-sync Graph   Video Metric Graph

Started	Running Job	RTM	Status Time	Status
2018-04-03 16:53:59	GD_19_14_DMOS	S4K-108	2018-04-03 16:59:53	Waiting for completion
2018-04-03 16:56:52	TodayShow_AVC_HEVC3Mb_DMOS	Windows10	2018-04-03 16:59:52	Waiting for alignment done

Submitted	Pending Job
2018-04-03 16:46:03	TodayShow_AVC_HEVC3Mb_Impared_DMOS
2018-04-03 16:46:03	TodayShow_AVC_HEVC3Mb_Impared_PSNR
2018-04-03 16:46:03	TodayShow_AVC_HEVC3Mb_PSNR
2018-04-03 16:46:03	TodayShow_AVC_HEVC6Mb_DMOS
2018-04-03 16:46:03	TodayShow_AVC_HEVC6Mb_Impared_DMOS
2018-04-03 16:46:03	TodayShow_AVC_HEVC6Mb_Impared_PSNR
2018-04-03 16:46:03	TodayShow_AVC_HEVC6Mb_PSNR

Unit Status

The Status dashboard shows either single or multiple RTM state, run time, last error time, and number of errors for each test type being run on each RTM to any user. A color coded map provides a visual cue of RTM status and time interval for below threshold events and errors logged for each test applied.

Video Clarity RTM Manager - Status

Tools for Video Analysis version 20170607   Control   Lip-sync Graph   Video Metric Graph

Last error occured: [0,5) min [5,30) min [30,60) min [60,*) min

Unit	Session	State	Run Time d:h:m:s	Video Metric	Quality Threshold	Duration	Last Error	Video Errors	Audio Errors	Lipsync Errors	Loudness Errors Input 1	Loudness Errors Input 2	VANC Errors	Video Offset (frames)	Audio Offset (msec)
16-Seagates1	North	Monitoring	00:00:03:41	0.47	14.00	5	2018-03-16 15:23:23	0	2	0	0	0	0	13	135.12
ASR-102	East	Monitoring	00:00:00:08	1.33	3.50	5	2018-03-16 15:24:54	3	1	0	0	0	0	0	Waiting
NAB_RTM	South	Monitoring	00:00:17:36	0.40	14.00	1		0	0	0	0	0	0	194	6359.47
S4K-Blake	West	Monitoring	00:00:16:47	0.67	25.00	10		0	0	0	0	0	0	279	27.20

The **General Settings** test list allows the user to apply a number of parameters for testing files such as type of quality metrics, failure threshold for each test, scaling factor applied to test's source files, and file names. Location of multiple files tested may be any network attached file location.

Manager Control Admin

The control administration page is providing control settings and management of parameter settings for each application instance or RTM system and each test run applied. Settings for the following appear in the Action drop down provided.

- Start or stop elected RTMs
- Export or import profile to selected RTMs
- Monitor, reboot or remove selected RTMs
- Shutdown, reboot, remove or update selected RTMs
- Clear recordings or errors for selected RTMs

Test Score Windows

The video or the lip sync metric running score are selectable on separate tabs showing a current media stream or file test event.

```
# GENERAL SETTINGS

Session Name = GD_19_03_DMOS

Video Format1 = 1920 x 1080 23.98 Hz.

Video Format2 = 1920 x 1080 23.98 Hz.

File1 = F:\SourceFiles\24P_TS_Files\19Mbit.mpg

File2 = F:\SourceFiles\24P_TS_Files\03Mbit.mpg

Scale1 = no

Scale2 = no

Metric to run = DMOS

VQ Threshold Y = 3
```