



AVI Viewer User's Guide

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Please address your comments or questions to:

Jongbel Media Solutions Ltd.

info@jongbel.com

www.jongbel.com

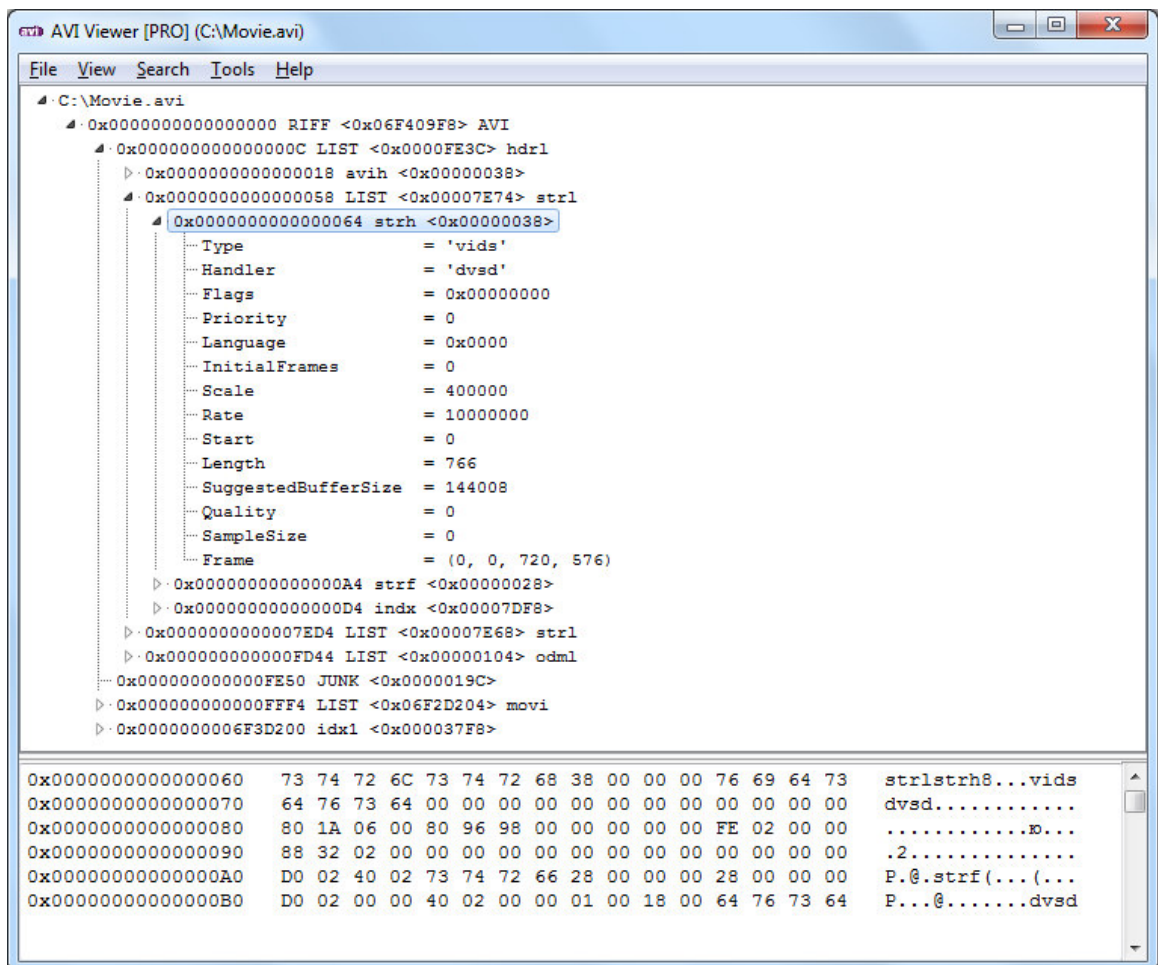
The logo for Jongbel Media Solutions features the word "JONGBEL" in a bold, blue, sans-serif font. The letter "O" is stylized with a yellow and orange circular graphic element. Below "JONGBEL" is the phrase "MEDIA SOLUTIONS" in a smaller, blue, sans-serif font.

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1. Overview

AVI Viewer application provides the user with a visual representation of the AVI container. Supports the original Microsoft AVI format (.avi), ODML, Type 1, Type 2, Matrox AVI defined chunks and DivX file format (.divx). Binary hex view is available along with the chunk tree view. Binary hex data editing of chunk data. Along with the presentation capabilities, the AVI Viewer Pro and Ultimate can perform AVI and DivX container validation.



1.1 General Features

- Visual representation of AVI file container
- Hex data representation of the file

- Automatic hex positioning of the selected chunk
- Export of file chunk structure
- Hex data editing of the selected chunk
- AVI and DivX files validation – available in AVI Viewer Pro and AVI Viewer Ultimate
- DV 25 video stream validation – an option for AVI Viewer Pro and is available in AVI Viewer Ultimate
- DV 50 video stream validation – an option for AVI Viewer Pro and is available in AVI Viewer Ultimate
- DV 100 video stream validation – an option for AVI Viewer Pro and is available in AVI Viewer Ultimate

1.2 Supported AVI chunks

This is the list with the supported AVI chunks by the AVI Viewer application.

hdlr	Handler Chunk
strl	Stream List Chunk
avih	Main AVI Header Chunk
strh	AVI Stream Header Chunk
strf	AVI Stream Format Chunk
odml	OpenDML Chunk
dmlh	Extended AVI Header Chunk
movi	Movie Data Chunk
idx1	Index Chunk
indx	Index Of Indexes Chunk
ix##	AVI Super Index Chunk

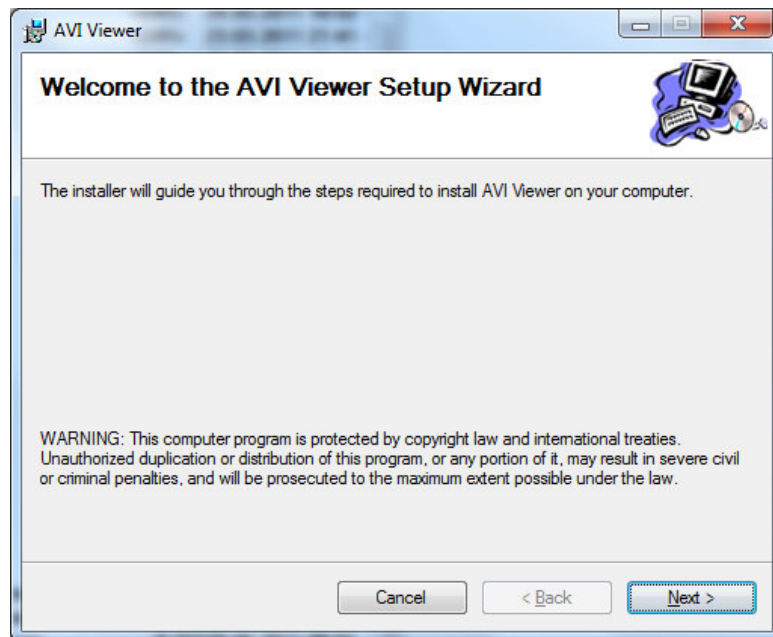
2. Installation

2.1 Installing AVI Viewer

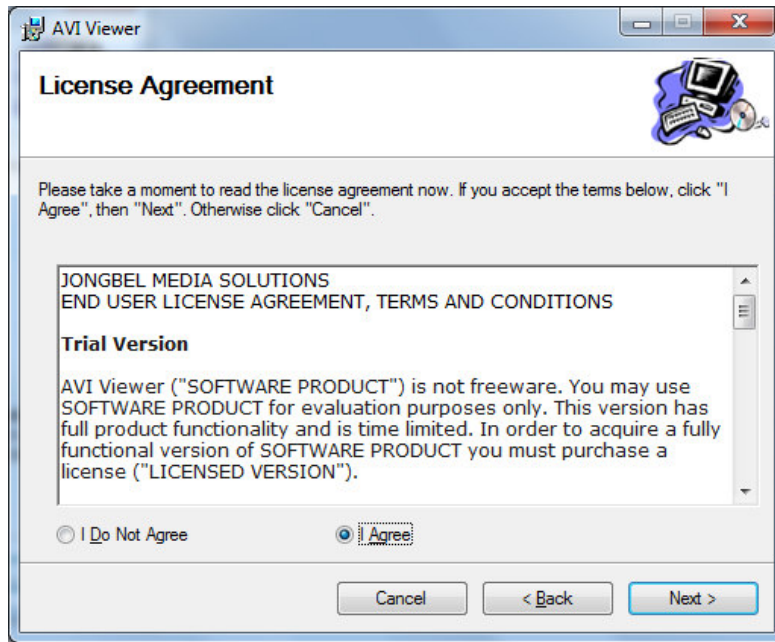
Before installing the **AVI Viewer** solution, make sure that any previous version of the product has been uninstalled refer 2.2.

The installation package of **AVI Viewer** is distributed in msi file. After downloading the file from the official Jongbel Media Solutions web site – www.jongbel.com, execute the installation by starting the msi file.

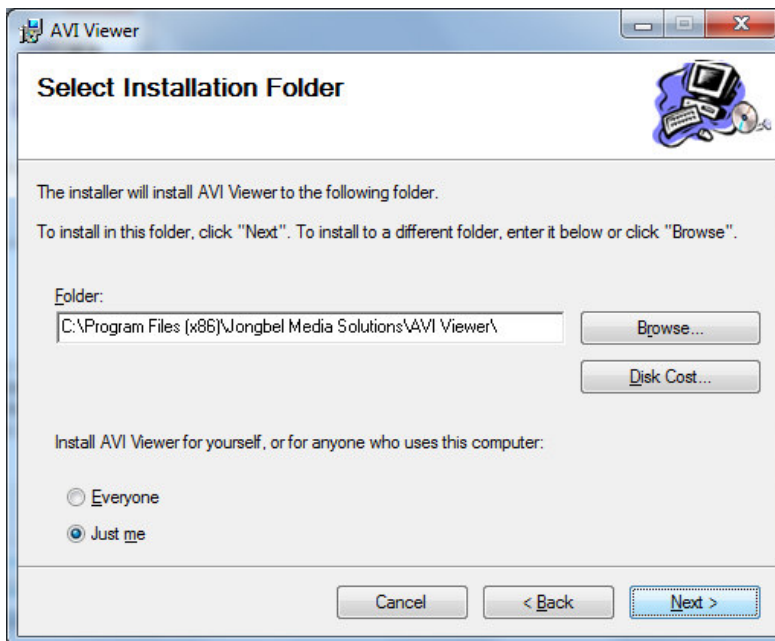
First a Welcome dialog pops up. Click “Next” in order to proceed.



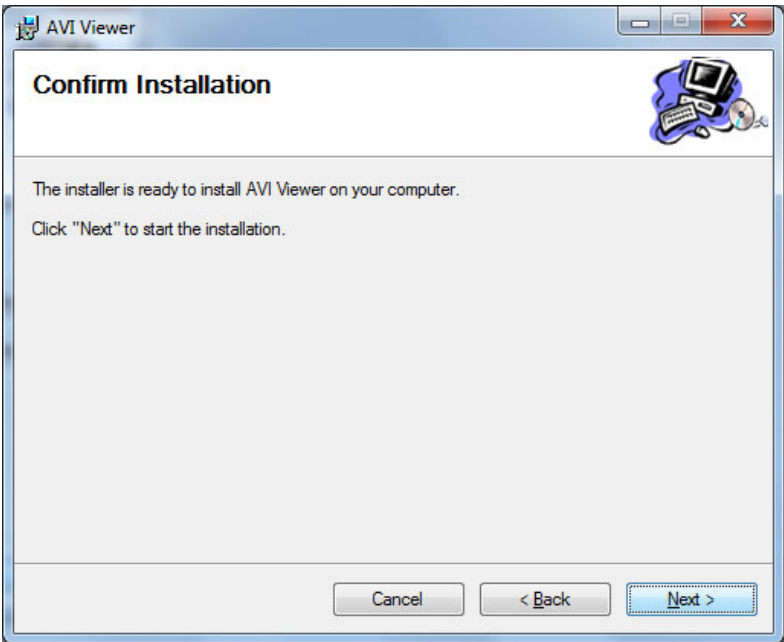
After this a License Agreement dialog pops up. Read the agreement carefully, select “I Agree” if you agree all the terms and click “Next” to proceed.



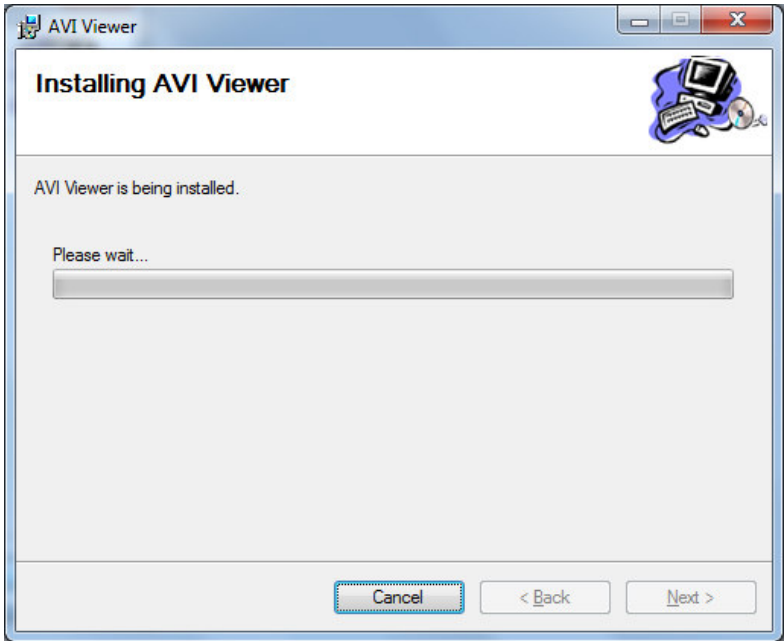
The next window shown specifies the installation product location and user access to the product. Change the destination product folder and user access if needed and click “Next” to proceed.



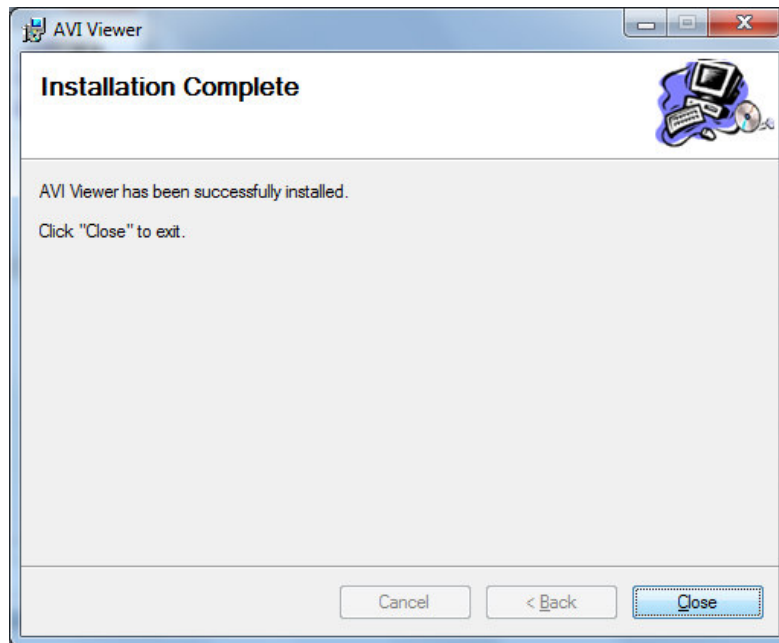
The next dialog is a confirmation dialog. Confirm by clicking “Next” in order to start the installation procedure.



While the product is being installed an "Installing" window shows the installation progress. Wait until the product is being installed.



At the end an “Installation Complete” dialog pops up, which denotes the successful AVI Viewer installation. Click “Close” to finalize the process.



2.2 Uninstalling AVI Viewer

The application can be removed opening the Control Panel – Programs and Features. Select the **AVI Viewer** application and click Uninstall.

3. Functions

The following functions are available from the application **File** menu.

Open – Opens a file open dialog box for selecting media file for loading.

Close – Closes the opened file and clears the tree and hex views.

Export Structure – Exports the opened media file AVI chunk structure into a text file. A file save dialog box is opened for selecting the target text file name.

Exit – Closes the application.

The following functions are available from the application **View** menu.

Full Expand – Expands the currently loaded media file tree view.

Full Collapse – Collapses the currently loaded media file tree view.

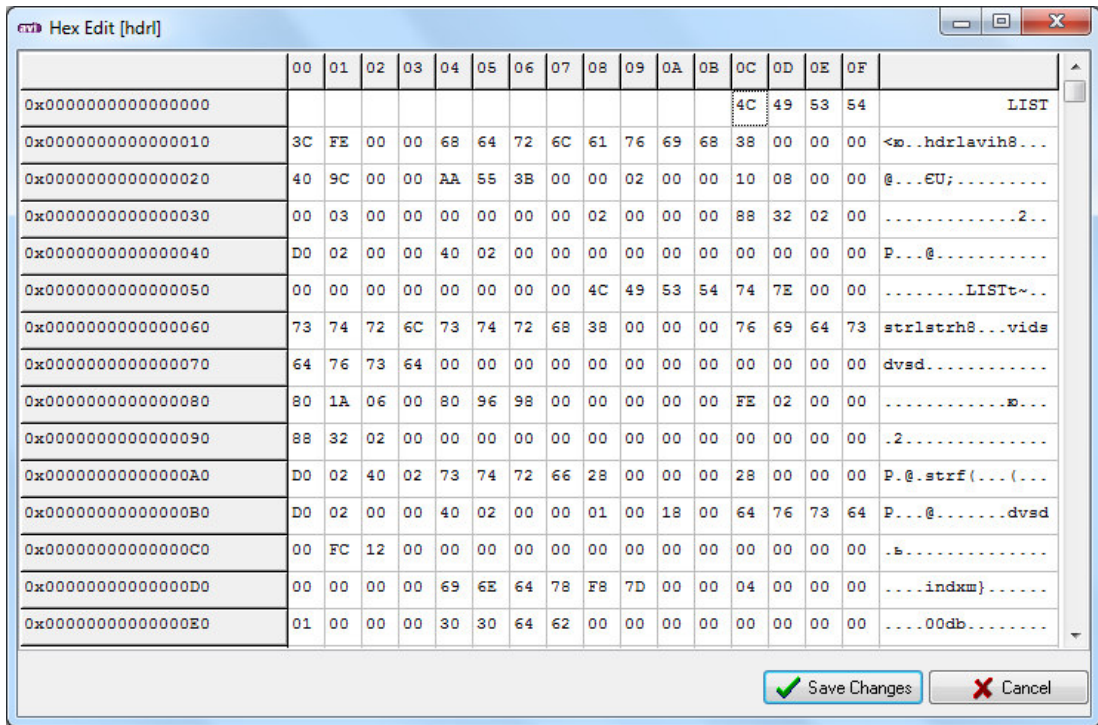
The following functions are available from the application **Search** menu.

Find Text – Searches for text in the tree view. If the text is found the tree view is positioned to the node, where the text has been found.

Find Next – Repeats the text search in the tree view. If the text is found the tree view is positioned to the node, where the text has been found.

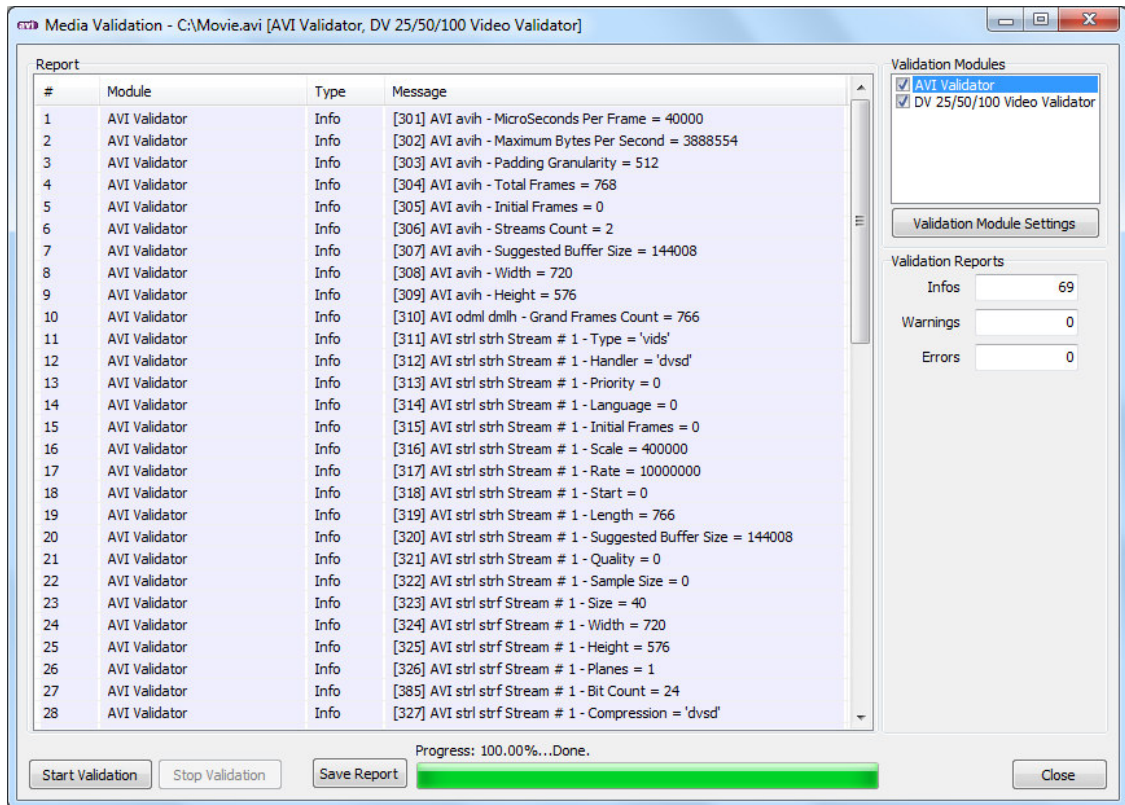
The following functions are available from the application **Tools** menu.

Hex Edit Chunk – Opens a Hex Edit dialog box for byte hex manipulating the binary data of the selected chunk from the tree view.



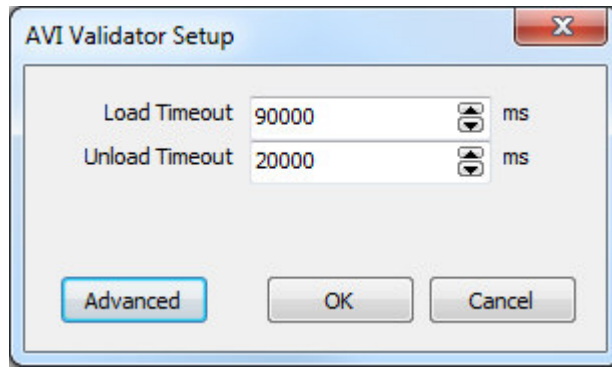
By double-clicking on the byte cell, the form will enter into byte editing mode, making it possible to change the value of the selected byte cell. The byte cells with values different from the values of the original file are marked in red. **Save Changes** button will save the altered bytes to the original file. **Cancel** button will exit the form, without altering the original file.

Validation – Performs validation and verification of the AVI and DivX based container. The function opens the media validation dialog from where the validation process can be started.



Once the Media Validation dialog is opened, the validation process can be started by pressing the “Start Validation” button. During the validation, the process can be stopped by pressing the “Stop Validation” button. The validation Report table contains four columns. The first column is the index of the validation report starting from 1. The second column denotes the validation module name. At this point AVI Viewer supports AVI Validator and DV 25/50/100 Video Validator modules. The third column denotes each report type, which can be “Info” for informational report, “Warning” for warning report and “Error” for error report. The fourth column contains the Validation ID and the report message. The button “Save Report” saves the current report into a XML validation report file. The XML validation report file can be used for integration with third-party systems. “Validation Reports” box represents the information about the total informational, warning and error reports in the current validation.

The button “Validation Module Settings” opens the validation module settings dialog.

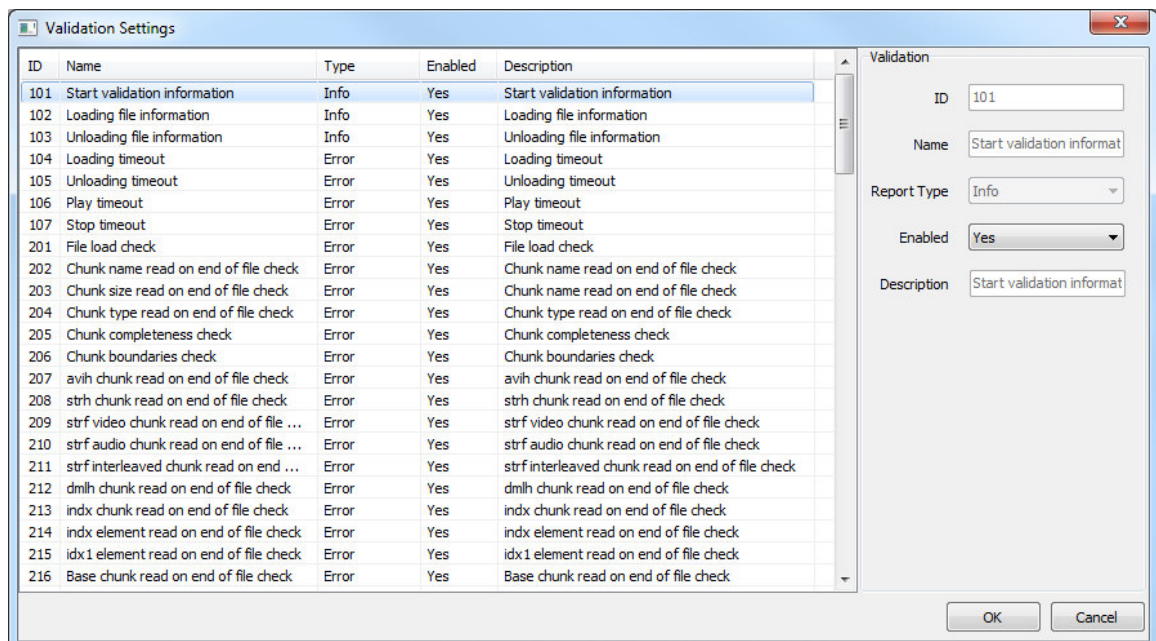


From the validation module settings dialog it is possible to control the loading and unloading timeout.

Load Timeout denotes the timeout, in milliseconds, for the media file loading process.

Unload Timeout denotes the timeout, in milliseconds, for the media file unloading process.

The advances settings are also accessible from this dialog by pressing the “Advanced” button.



From the Validation Settings dialog it is possible to control all validation procedures. All validation procedures can be Disabled/Enabled and the

report type of some can be switched to “Info”, “Warning” or “Error” depending on each custom workflow. The validation customization allows easy integration of the product in every workflow.

The button “Save Report” saves the validation report into XML validation report file, which allows integration with third party systems.

The button “Close” closes the Media Validation dialog.

For more information about the validation checks go to Chapter 4.

The following functions are available from the application **Help** menu.

Registration – Opens the product registration form. This function is available only in the full licensed version of the product.

Check For Updates – Enables/Disables automatic check for updates.

About – Opens the About dialog box of the product.

4. Validation

AVI Viewer Pro and AVI Viewer Ultimate can perform validation of the AVI and DivX containers. Incorrect headers structure, missing frames and zero blocks can be detected by this validation module. The supported AVI containers are AVI ODML, AVI DV Type 1 & Type 2 and Matrox AVI container. DV 25, DV 50 and DV 100 are the optional validation modules supported by the AVI Viewer Pro and are included in the AVI Viewer Ultimate.

4.1. AVI Validation

The following validation checks are available for this module:

ID : 101

Name : 'Start validation information'

Type : Info

Description : Reports information on file validation start.

ID : 102

Name : 'Loading file information'

Type : Info

Description : Reports information on file load.

ID : 103

Name : 'Unloading file information'

Type : Info

Description : Reports information on file unload.

ID : 104

Name : 'Loading timeout'

Type : Error

Description : Reports load timeout if the loading time is greater than the maximum loading time specified in the main property page of the validation module.

ID : 105

Name : 'Unloading timeout'

Type : Error

Description : Reports unload timeout if the unloading time is greater than the maximum unloading time specified in the main property page of the validation module.

ID : 201

Name : 'File load check'

Type : Error

Description : Reports if the media file cannot be loaded for file reading.

ID : 202

Name : 'Chunk name read on end of file check'

Type : Error

Description : Reports invalid AVI chunk name on end of file.

ID : 203

Name : 'Chunk size read on end of file check'

Type : Error

Description : Reports invalid AVI chunk size on end of file.

ID : 204

Name : 'Chunk type read on end of file check'

Type : Error

Description : Reports invalid AVI chunk type on end of file.

ID : 205

Name : 'Chunk completeness check'

Type : Error

Description : Reports incomplete AVI chunk, which has size exceeding the file size.

ID : 206

Name : 'Chunk boundaries check'

Type : Error

Description : Reports AVI chunk boundaries break.

ID : 207

Name : 'avih chunk read on end of file check'

Type : Error

Description : Reports incomplete AVI avih chunk on end of file.

ID : 208

Name : 'strh chunk read on end of file check'

Type : Error

Description : Reports incomplete AVI strh chunk on end of file.

ID : 209

Name : 'strf video chunk read on end of file check'

Type : Error

Description : Reports incomplete AVI strf video chunk on end of file.

ID : 210

Name : 'strf audio chunk read on end of file check'

Type : Error

Description : Reports incomplete AVI strf audio chunk on end of file.

ID : 211

Name : 'strf interleaved chunk read on end of file check'

Type : Error

Description : Reports incomplete AVI strf interleaved chunk on end of file.

ID : 212

Name : 'dmlh chunk read on end of file check'

Type : Error

Description : Reports incomplete AVI dmlh chunk on end of file.

ID : 213

Name : 'indx chunk read on end of file check'

Type : Error

Description : Reports incomplete AVI indx chunk on end of file.

ID : 214

Name : 'indx element read on end of file check'

Type : Error

Description : Reports incomplete AVI indx element on end of file.

ID : 215

Name : 'idx1 element read on end of file check'

Type : Error

Description : Reports incomplete AVI idx1 element on end of file.

ID : 216

Name : 'Base chunk read on end of file check'

Type : Error

Description : Reports incomplete AVI base chunk on end of file.

ID : 217

Name : 'Base element read on end of file check'

Type : Error

Description : Reports incomplete AVI base element on end of file.

ID : 301

Name : 'avih chunk MicroSeconds Per Frame information'

Type : Info

Description : Reports the avih chunk MicroSeconds Per Frame value.

ID : 302

Name : 'avih chunk Maximum Bytes Per Second information'

Type : Info

Description : Reports the avih chunk Maximum Bytes Per Second value.

ID : 303

Name : 'avih chunk Padding Granularity information'

Type : Info

Description : Reports the avih chunk Padding Granularity value.

ID : 304

Name : 'avih chunk Total Frames information'

Type : Info

Description : Reports the avih chunk Total Frames value.

ID : 305

Name : 'avih chunk Initial Frames information'

Type : Info

Description : Reports the avih chunk Initial Frames value.

ID : 306

Name : 'avih chunk Streams Count information'

Type : Info

Description : Reports the avih chunk Streams Count value.

ID : 307

Name : 'avih chunk Suggested Buffer Size information'

Type : Info

Description : Reports the avih chunk Suggested Buffer Size value.

ID : 308

Name : 'avih chunk Width information'

Type : Info

Description : Reports the avih chunk Width value.

ID : 309

Name : 'avih chunk Height information'

Type : Info

Description : Reports the avih chunk Height value.

ID : 310

Name : 'odml dmlh chunk Grand Frames Count information'

Type : Info

Description : Reports the odml dmlh chunk Grand Frames Count value.

ID : 311

Name : 'strl strh chunk Type information'

Type : Info

Description : Reports the strl strh chunk Type value.

ID : 312

Name : 'strl strh chunk Handler information'

Type : Info

Description : Reports the strl strh chunk Handler value.

ID : 313

Name : 'strl strh chunk Priority information'

Type : Info

Description : Reports the strl strh chunk Priority value.

ID : 314

Name : 'strl strh chunk Language information'

Type : Info

Description : Reports the strl strh chunk Language value.

ID : 315

Name : 'strl strh chunk Initial Frames information'

Type : Info

Description : Reports the strl strh chunk Initial Frames value.

ID : 316

Name : 'strl strh chunk Scale information'

Type : Info

Description : Reports the strl strh chunk Scale value.

ID : 317

Name : 'strl strh chunk Rate information'

Type : Info

Description : Reports the strl strh chunk Rate value.

ID : 318

Name : 'strl strh chunk Start information'

Type : Info

Description : Reports the strl strh chunk Start value.

ID : 319

Name : 'strl strh chunk Length information'

Type : Info

Description : Reports the strl strh chunk Length value.

ID : 320

Name : 'strl strh chunk Suggested Buffer Size information'

Type : Info

Description : Reports the strl strh chunk Suggested Buffer Size value.

ID : 321

Name : 'strl strh chunk Quality information'

Type : Info

Description : Reports the strl strh chunk Quality value.

ID : 322

Name : 'strl strh chunk Sample Size information'

Type : Info

Description : Reports the strl strh chunk Sample Size value.

ID : 323

Name : 'strf video chunk Size information'

Type : Info

Description : Reports the strf video chunk Size value.

ID : 324

Name : 'strf video chunk Width information'

Type : Info

Description : Reports the strf video chunk Width value.

ID : 325

Name : 'strf video chunk Height information'

Type : Info

Description : Reports the strf video chunk Height value.

ID : 326

Name : 'strf video chunk Planes information'

Type : Info

Description : Reports the strf video chunk Planes value.

ID : 327

Name : 'strf video chunk Compression information'

Type : Info

Description : Reports the strf video chunk Compression value.

ID : 328

Name : 'strf video chunk Size Image information'

Type : Info

Description : Reports the strf video chunk Size Image value.

ID : 329

Name : 'strf video chunk X Pels Per Meter information'

Type : Info

Description : Reports the strf video chunk X Pels Per Meter value.

ID : 330

Name : 'strf video chunk Y Pels Per Meter information'

Type : Info

Description : Reports the strf video chunk Y Pels Per Meter value.

ID : 331

Name : 'strf video chunk Clr Used information'

Type : Info

Description : Reports the strf video chunk Clr Used value.

ID : 332

Name : 'strf video chunk Clr Important information'

Type : Info

Description : Reports the strf video chunk Clr Important value.

ID : 333

Name : 'strf audio chunk Format Tag information'

Type : Info

Description : Reports the strf audio chunk Format Tag value.

ID : 334

Name : 'strf audio chunk Channels information'

Type : Info

Description : Reports the strf audio chunk Channels value.

ID : 335

Name : 'strf audio chunk Samples Per Second information'

Type : Info

Description : Reports the strf audio chunk Samples Per Second value.

ID : 336

Name : 'strf audio chunk Average Bytes Per Second information'

Type : Info

Description : Reports the strf audio chunk Average Bytes Per Second value.

ID : 337

Name : 'strf audio chunk Block Align information'

Type : Info

Description : Reports the strf audio chunk Block Align value.

ID : 338

Name : 'strf audio chunk Bits Per Sample information'

Type : Info

Description : Reports the strf audio chunk Bits Per Sample value.

ID : 339

Name : 'strf interleaved chunk DVAAuxSrc information'

Type : Info

Description : Reports the strf interleaved chunk DVAAuxSrc value.

ID : 340

Name : 'strf interleaved chunk DVAAuxCtl information'

Type : Info

Description : Reports the strf interleaved chunk DVAAuxCtl value.

ID : 341

Name : 'strf interleaved chunk DVAAuxSrc1 information'

Type : Info

Description : Reports the strf interleaved chunk DVAAuxSrc1 value.

ID : 342

Name : 'strf interleaved chunk DVAAuxCtl1 information'

Type : Info

Description : Reports the strf interleaved chunk DVAAuxCtl1 value.

ID : 343

Name : 'strf interleaved chunk DVVAuxSrc information'

Type : Info

Description : Reports the strf interleaved chunk DVVAuxSrc value.

ID : 344

Name : 'strf interleaved chunk DVVAuxCtl information'

Type : Info

Description : Reports the strf interleaved chunk DVVAuxCtl value.

ID : 345

Name : 'Non-RIFF chunk check'

Type : Warning

Description : Reports a non-RIFF chunk found in the root AVI layer.

ID : 346

Name : 'avih chunk check'

Type : Error

Description : Reports invalid avih chunk.

ID : 347

Name : 'avih chunk MicroSeconds Per Frame check'

Type : Error

Description : Reports invalid MicroSeconds Per Frame value in the avih chunk.

ID : 348

Name : 'avih chunk Total Frames check'

Type : Error

Description : Reports invalid Total Frames value in the avih chunk.

ID : 349

Name : 'avih chunk Streams check'

Type : Error

Description : Reports invalid Streams value in the avih chunk.

ID : 350

Name : 'avih chunk Suggested Buffer Size check'

Type : Warning

Description : Reports invalid Suggested Buffer Size value in the avih chunk.

ID : 351

Name : 'avih chunk Width check'

Type : Warning

Description : Reports invalid Width value in the avih chunk.

ID : 352

Name : 'avih chunk Height check'

Type : Warning

Description : Reports invalid Height value in the avih chunk.

ID : 353

Name : 'First chunk name check'

Type : Error

Description : Reports invalid first root chunk name. The first chunk name must be AVI.

ID : 354

Name : 'hdrl chunk absence in the first chunk check'

Type : Error

Description : Reports absence of hdrl chunk in the first RIFF chunk.

ID : 355

Name : 'movi chunk absence in the first chunk check'

Type : Error

Description : Reports absence of movi chunk in the first RIFF chunk.

ID : 356

Name : 'idx1 chunk absence in the first chunk check'

Type : Error

Description : Reports absence of idx1 chunk in the first RIFF chunk.

ID : 357

Name : 'avih chunk absence in the hdrl chunk check'

Type : Error

Description : Reports absence of avih chunk in the avih chunk.

ID : 358

Name : 'strl chunk absence in the hdrl chunk check'

Type : Error

Description : Reports absence of strl chunk in the hdrl chunk.

ID : 359

Name : 'idx1 chunk elements absence check'

Type : Error

Description : Reports absence of elements in the idx1 chunk.

ID : 360

Name : 'idx1 chunk element size check'

Type : Warning

Description : Reports invalid element size in the idx1 chunk.

ID : 361

Name : 'ixXX chunk Longs Per Entry check'

Type : Error

Description : Reports invalid Longs Per Entry value in the ixXX chunk.

ID : 362

Name : 'ixXX chunk Entries In Use check'

Type : Error

Description : Reports invalid Entries In Use value in the ixXX chunk.

ID : 363

Name : 'ixXX chunk ChunkId check'

Type : Error

Description : Reports invalid ChunkId value in the ixXX chunk.

ID : 364

Name : 'ixXX chunk indexes count check'

Type : Error

Description : Reports invalid indexes count value in the ixXX chunk.

ID : 365

Name : 'ixXX chunk elements size check'

Type : Error

Description : Reports invalid element size value in the ixXX chunk.

ID : 366

Name : 'Zero chunk presence check'

Type : Warning

Description : Reports invalid chunk having zero size.

ID : 367

Name : 'dmlh chunk absence in the odml chunk check'

Type : Error

Description : Reports absence of dmlh chunk in the odml chunk.

ID : 368

Name : 'strf video chunk Width check'

Type : Error

Description : Reports invalid Width value in the strf video chunk.

ID : 369

Name : 'strf video chunk Height check'

Type : Error

Description : Reports invalid Height value in the strf video chunk.

ID : 370

Name : 'strf video chunk Planes check'

Type : Warning

Description : Reports invalid Planes value in the strf video chunk.

ID : 371

Name : 'strf video chunk Bit Count check'

Type : Warning

Description : Reports invalid Bit Count value in the strf video chunk.

ID : 372

Name : 'strf video chunk Size Image check'

Type : Warning

Description : Reports invalid Size Image value in the strf video chunk.

ID : 373

Name : 'strf audio chunk Format Tag check'

Type : Error

Description : Reports invalid Format Tag value in the strf audio chunk.

ID : 374

Name : 'strf audio chunk Channels check'

Type : Error

Description : Reports invalid Channels value in the strf audio chunk.

ID : 375

Name : 'strf audio chunk Samples Per Second check'

Type : Error

Description : Reports invalid Samples Per Second value in the strf audio chunk.

ID : 376

Name : 'strf audio chunk Average Bytes Per Second check'

Type : Error

Description : Reports invalid Average Bytes Per Second value in the strf audio chunk.

ID : 377

Name : 'strf audio chunk Block Align check'

Type : Warning

Description : Reports invalid Block Align value in the strf audio chunk.

ID : 378

Name : 'strf audio chunk Bits Per Sample check'

Type : Warning

Description : Reports invalid Bits Per Sample value in the strf audio chunk.

ID : 379

Name : 'strh chunk Type check'

Type : Error

Description : Reports invalid chunk type of strh chunk.

ID : 380

Name : 'strh chunk Scale check'

Type : Error

Description : Reports invalid Scale value in the strh chunk.

ID : 381

Name : 'strh chunk Rate check'

Type : Error

Description : Reports invalid Rate value in the strh chunk.

ID : 382

Name : 'strh chunk Suggested Buffer Size check'

Type : Error

Description : Reports invalid Suggested Buffer Size value in the strh chunk.

ID : 383

Name : 'strh chunk absence in the strl chunk check'

Type : Error

Description : Reports absence of strh chunk in the strl chunk.

ID : 384

Name : 'strf chunk absence in the strl chunk check'

Type : Error

Description : Reports absence of strf chunk in the strl chunk.

ID : 385

Name : 'strf video chunk Bit Count information'

Type : Info

Description : Reports the Bit Count value from the strf video chunk.

ID : 386

Name : 'dmlh chunk Grand Frames check'

Type : Error

Description : Reports invalid Grand Frames value in the dmlh chunk.

4.2. DV Video Stream Validation

The following validation checks are available for this module:

ID : 101

Name : 'Start validation information'

Type : Info

Description : Reports information on file validation start.

ID : 102

Name : 'Loading file information'

Type : Info

Description : Reports information on file load.

ID : 103

Name : 'Unloading file information'

Type : Info

Description : Reports information on file unload.

ID : 104

Name : 'Loading timeout'

Type : Error

Description : Reports load timeout if the loading time is greater than the maximum loading time specified in the main property page of the validation module.

ID : 105

Name : 'Unloading timeout'

Type : Error

Description : Reports unload timeout if the unloading time is greater than the maximum unloading time specified in the main property page of the validation module.

ID : 106

Name : 'Play timeout'

Type : Error

Description : Reports validation start timeout.

ID : 107

Name : 'Stop timeout'

Type : Error

Description : Reports validation stop timeout.

ID : 108

Name : 'Finish validation information'

Type : Info

Description : Reports information on file validation finish.

ID : 201

Name : 'Corrupted Video Frame Number'

Type : Error

Description : Reports each corrupted DV video frame number.

ID : 202

Name : 'Valid Video Frame Width'

Type : Error

Description : Reports invalid resolution video frame width value.

ID : 203

Name : 'Valid Video Frame Height'

Type : Error

Description : Reports invalid resolution video frame height value.

ID : 204

Name : 'Changing Video Frame Width'

Type : Warning

Description : Reports changing resolution video frame width value.

ID : 205

Name : 'Changing Video Frame Height'

Type : Warning

Description : Reports changing resolution video frame height value.

ID : 206

Name : 'Valid Video Frames Per Second'

Type : Error

Description : Reports invalid video Frame Per Seconds value.

ID : 207

Name : 'Changing Video Frames Per Second'

Type : Warning

Description : Reports changing video Frames Per Second value.

ID : 209

Name : 'Changing Picture Structure'

Type : Warning

Description : Reports changing Picture Structure value.

ID : 210

Name : 'Changing Frame Size'

Type : Error

Description : Reports changing video frame size value.

ID : 211

Name : 'End Of File Junk'

Type : Error

Description : Reports junk data block at the end of the video stream.

ID : 401

Name : 'Video Frame Width Information'

Type : Info

Description : Reports video frame width value.

ID : 402

Name : 'Video Frame Height Information'

Type : Info

Description : Reports video frame height value.

ID : 403

Name : 'Video Frames Per Second Information'

Type : Info

Description : Reports video Frames Per Second value.

ID : 404

Name : 'Video Frame Picture Structure Information'

Type : Info

Description : Reports video frame Picture Structure value.

ID : 405

Name : 'Video Frame Top Field First Information'

Type : Info

Description : Reports video frame Top Field First value.

ID : 406

Name : 'Video Frame Size Information'

Type : Info

Description : Reports video Frame Size value.

ID : 501

Name : 'Video Decoded Frames Count Information'

Type : Info

Description : Reports the successfully decoded video frames count.

ID : 502

Name : 'Video Corrupted Frames Count Information'

Type : Info

Description : Reports the corrupted video frames count.

ID : 503

Name : 'Stream Index To Validate Information'

Type : Info

Description : Reports the stream index of the elementary stream, which is being validated, in case of multiplexed media file.

ID : 504

Name : 'Program ID To Validate Information'

Type : Info

Description : Reports the program ID of the elementary stream, which is being validated, in case of multiplexed media file.

ID : 505

Name : 'Stream ID To Validate Information'

Type : Info

Description : Reports the stream ID of the elementary stream, which is being validated, in case of multiplexed media file.

ID : 506

Name : ' Demo Restrictions Information'

Type : Info

Description : Reports the demo restrictions in case of trail mode.

ID : 507

Name : ' Video Processed Frames Count Information'

Type : Info

Description : Reports the video processed frames count. The processed frames count is the sum of all video frames – valid and invalid.