



Your Partner in Digital Radio Broadcasting

ETI File Converter

Installation and Operation

VDL Reference

ETI File Converter Manual.docx

Date:

08 July 2013

Head Office

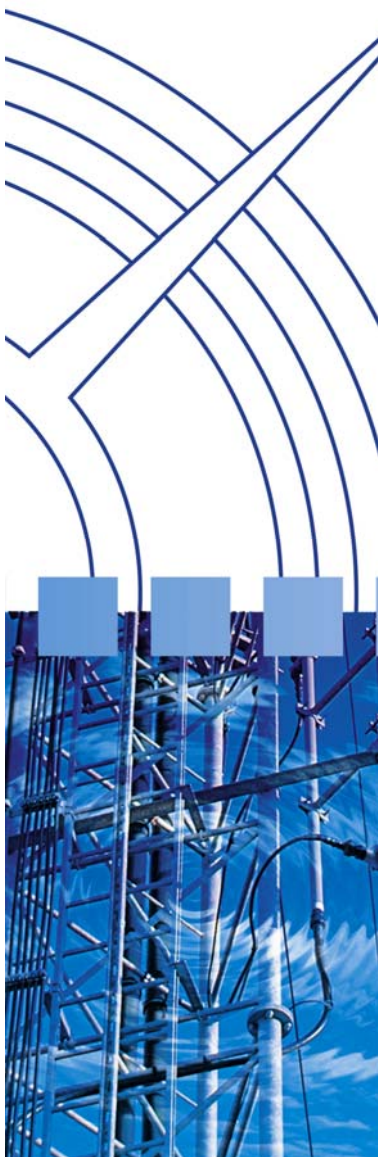
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Contents	Page
1. General Information	1-1
1.1. Scope	1-1
1.2. Revision History	1-1
1.3. Notices	1-1
2. Introduction	2-1
2.1. Description	2-1
2.2. WorldDMB Members	2-1
3. Installation	3-1
3.1. Software Installation	3-1
4. Software Licensing	4-1
4.1. Licence Request	4-1
4.2. Licence Activation	4-4
5. Operation	5-1
5.1. Getting Started	5-1
5.2. Input File Selection	5-2
5.2.1. ETI-NA Conversion Options	5-4
5.3. Output File Selection	5-4
5.4. Unsupported File Format	5-8
6. File Formats	6-1
6.1. Introduction	6-1
6.2. File Extensions	6-1
6.3. R2D Full-frame	6-1
6.4. ETI Full-frame	6-1
6.5. LI Frames with 3-byte FSYNC	6-2
6.6. LI Frames	6-2
6.7. Conversion	6-2
7. SUPPORT	7-1
7.1. What to do if you have a problem	7-1
7.2. Servicing, Maintenance and Repairs	7-1
7.3. If you need Support	7-1
7.4. Support Contact Information	7-1



7.5.	Support Requests	7-2
7.6.	Returns	7-3
7.7.	End-of-Life Disposal	7-3



1. GENERAL INFORMATION

1.1. Scope

Converter Software for ETI Files.

Software version 1475.2.1

1.2. Revision History

8 July 2013	Re-formatted document
27 September 2010	Licence activation procedure changed
10 January 2010	New software licensing and installer, revision 1475.2.1
1 June 2009	Initial VDL version, revision 1475.2.0

1.3. Notices

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2. INTRODUCTION

2.1. Description

VDL's ETI File Converter accepts a number of known Digital Audio Broadcast (DAB) Ensemble Transport Interface (ETI) file types for conversion to **.r2d* file format, for compatibility with VDL ETI Recorder and Replayer products.

ETI files can also be converted to basic ETI-NI file format, for compatibility with the WorldDMB ETI File Library (www.worlddab.org).

ETI File Converter provides the following conversion options:

- converts ETI-NA files to ETI-NI format (to provide compatibility with some ETI Analysers)
- frame-align ETI-NA and ETI-NI files (to start and stop on frame boundaries)
- converts ETI files to basic ETI-NI format (without VDL **.r2d* file header) for compatibility with the WorldDMB ETI File Library.

VDL's **.r2d* file format comprises full-frame 2048kb/s (uncompressed, unformatted) ETI-NI or ETI-NA data stream, plus a 1024-byte header.

The file header contains information on the source recording, such as file type and stream origin, start/stop date/time stamps.

When converting **.eti* or **.bin* files, the converter defaults to saving the output file in the same folder as the input file.

The converted file will use the original filename, but with the **.r2d* file extension. When converting **.r2d* files, a different filename must be selected.

Supported file formats are listed in the Section – File Formats.

2.2. WorldDMB Members

Members of the WorldDMB Forum (www.worlddab.org) can receive a Licence Activation file at no charge, with the compliments of VDL.

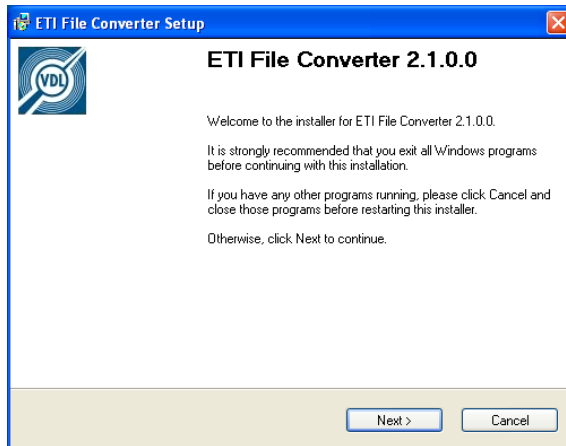


3. INSTALLATION

3.1. Software Installation

1. Run (double-click) the program *Setup ETI File Converter.exe*

Click *Next* to continue.



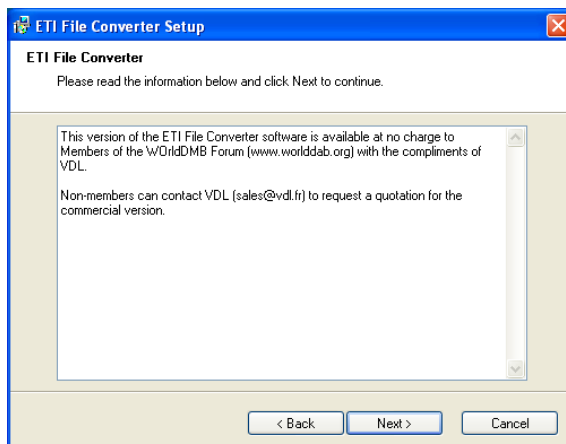
2. Information Screen.



The ETI File Converter software is available at no charge to Members of the WorldDMB Forum (www.worlddb.org) with the compliments of VDL.

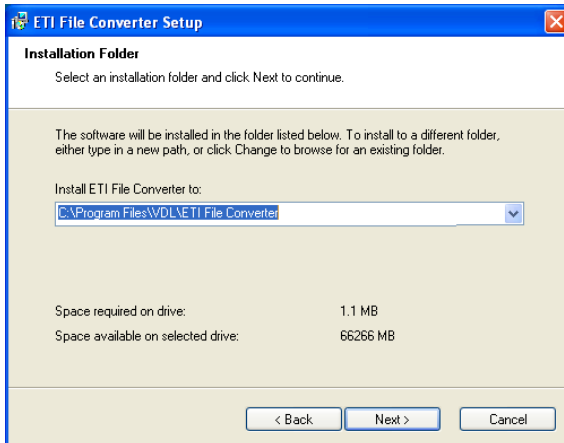
Non-members can contact VDL (sales@vdl-broadcast.com) to request a quotation for the commercial version.

Click *Next* to continue.



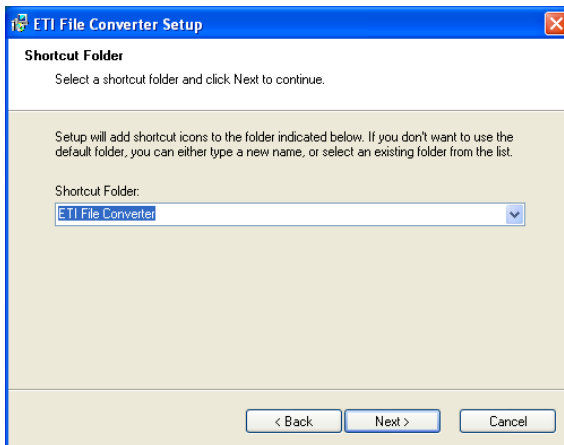
3. Installation Folder

Click *Next* to continue.



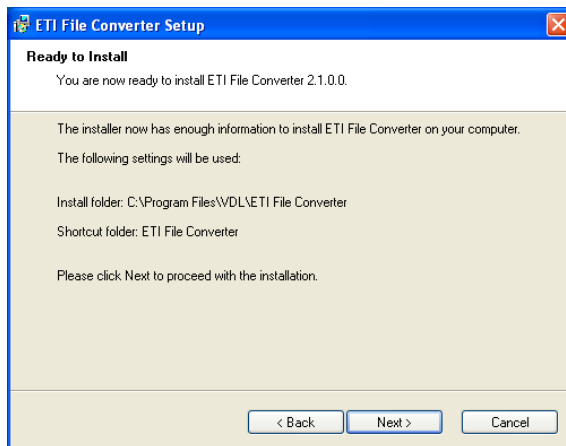
4. Desktop Shortcut Folder

Click *Next* to continue.



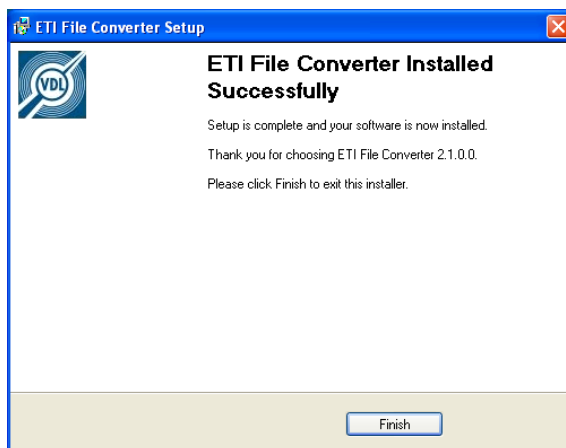
5. Ready to Install

Click *Next* to continue.



Installation completed

Click *Finish* to continue.



4. SOFTWARE LICENSING

The ETI File Converter requires registration and activation before it can be used.

Members of the WorldDMB Forum (www.worldddb.org) can receive a Licence Activation file at no charge, with the compliments of VDL.

For licence activation, WorldDMB members should follow the procedure in the following chapter. Membership status will be checked by VDL when the licence request has been received.

4.1. Licence Request

1. Run the ETI File Converter from the desktop shortcut or Start menu.

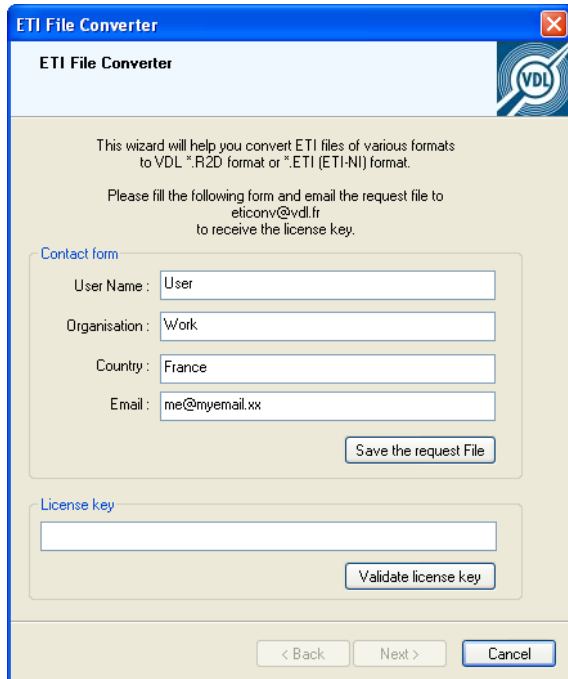


2. The registration screen will open.

The registration screen is a window titled 'ETI File Converter'. It has a blue header bar with the title and a close button. Below the header, there is a light blue banner with the 'ETI File Converter' text and the VDL logo. The main area is a light beige color. It contains a text block stating: 'This wizard will help you convert ETI files of various formats to VDL *.R2D format or *.ETI (ETI-NI) format. Please fill the following form and email the request file to eticonv@vdl.fr to receive the license key.' Below this, there are two sections. The first is 'Contact form' with four input fields: 'User Name', 'Organisation', 'Country', and 'Email'. A 'Save the request File' button is at the bottom of this section. The second section is 'License key' with a single input field and a 'Validate license key' button. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

3. Enter your registration details in the Contact form.

Click *Save the request File*.



The screenshot shows the 'ETI File Converter' registration wizard. The title bar reads 'ETI File Converter'. The main window has a blue header with the 'VDL' logo. The text inside says: 'This wizard will help you convert ETI files of various formats to VDL *.R2D format or *.ETI (ETI-NI) format. Please fill the following form and email the request file to eticonv@vdl.fr to receive the license key.'

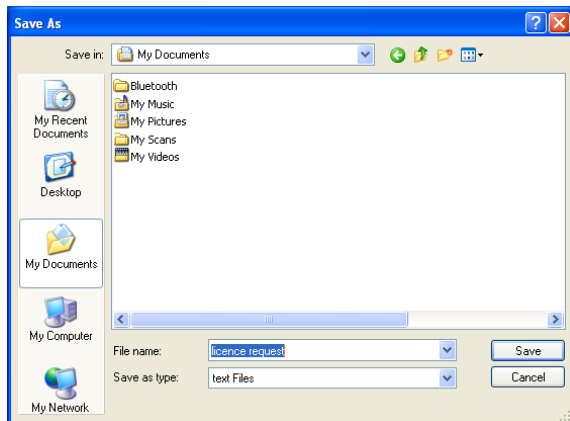
Under the 'Contact form' section, there are four text input fields: 'User Name' (containing 'User'), 'Organisation' (containing 'Work'), 'Country' (containing 'France'), and 'Email' (containing 'me@myemail.xx'). A 'Save the request File' button is located below these fields.

Below the contact form is a 'License key' section with a large empty text box and a 'Validate license key' button.

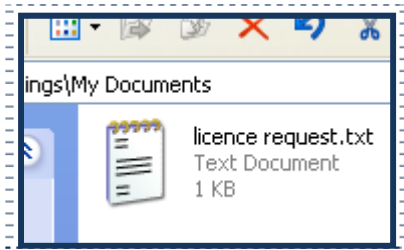
At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

4. Save the licence request file.

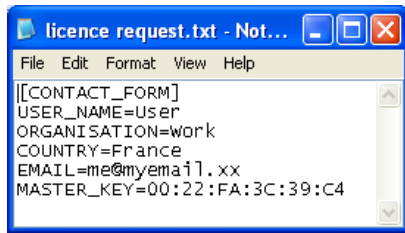
Select the folder and filename for the licence request file.



5. If you wish, you can inspect the contents of the licence request file.



6. Open the licence request file in a text reader program, such as Windows Notepad.



7. Send the licence request file to as an e-mail attachment to: licensing@vdl-broadcast.com



4.2. Licence Activation

Your Licence Activation file will be sent by e-mail from VDL.

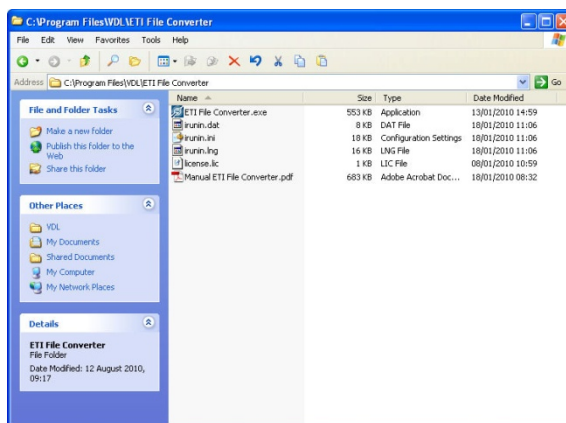


Please ensure that eticonv@vdl.fr is not blocked by your firewall or anti-virus software.

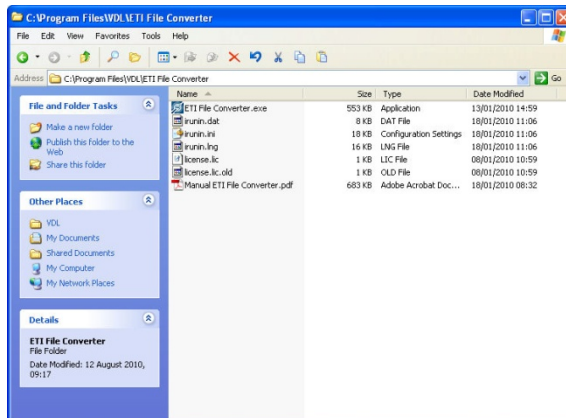


For members of the WorldDMB Forum, there may be a brief delay in receiving the Activation Key from VDL while your membership status is verified.

1. Copy the Licence Activation file to the ETI File Converter application folder (normally `C:\Program Files\VDL\ETI File Converter\`).



2. Rename the original licence file *license.lic* to *license.lic.old*
3. Rename the new licence file to *license.lic*



4. The software will now run.
5. If there are any problems, please contact VDL: support@vdl-broadcast.com



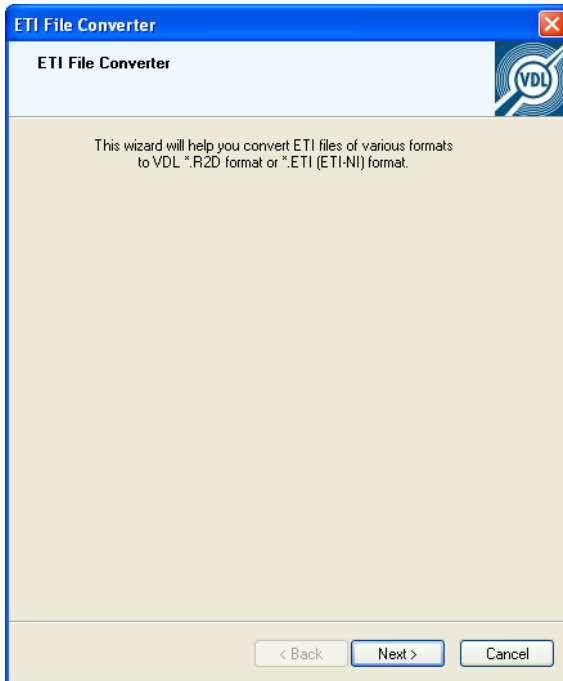
5. OPERATION

5.1. Getting Started

Click on the desktop application shortcut or run the application from the Windows Start menu.



The ETI File Converter uses a step-by-step “wizard” interface.



5.2. Input File Selection

Select the input file to be converted.

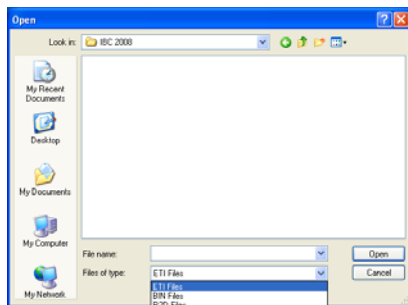


Supported input file extensions are:

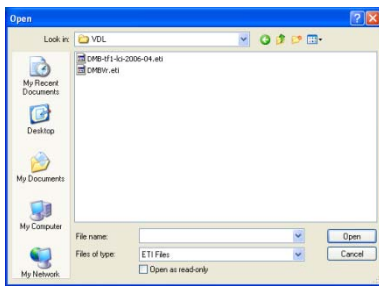
**.eti*

**.bin*

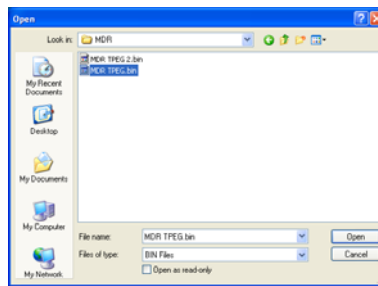
**.r2d*



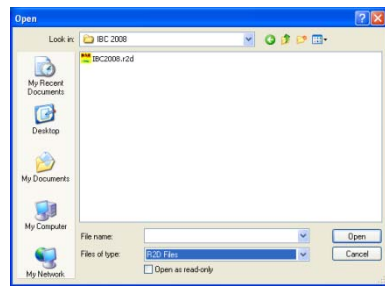
Note that the file extension does not always indicate the file format



*.eti file extension

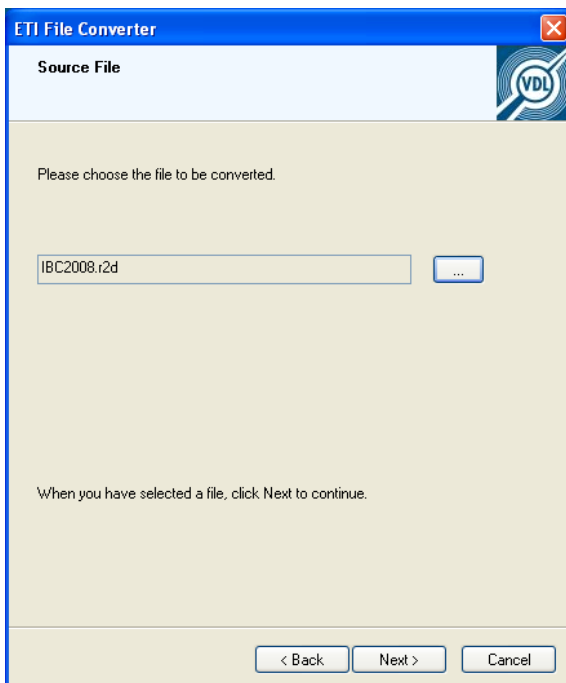


*.bin file extension



*.r2d file extension

Confirm input file selection, click *Next*.



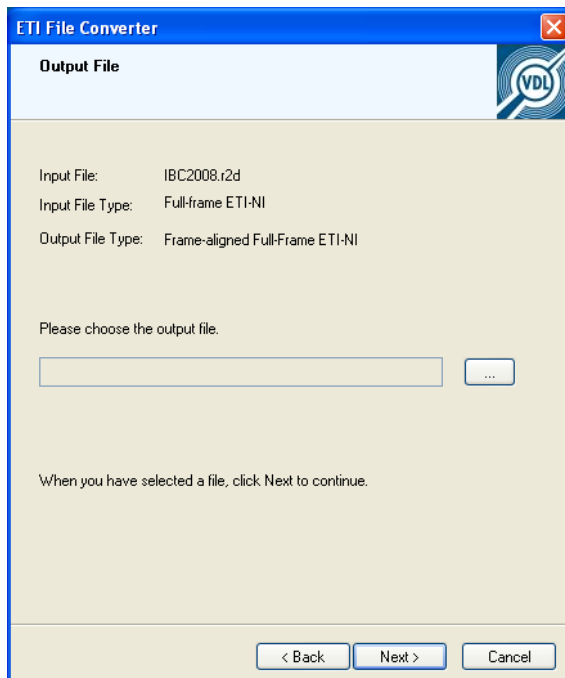
5.2.1. ETI-NA Conversion Options

When an ETI-NA input file is detected, choose between frame-alignment, or conversion to ETI-NI format.

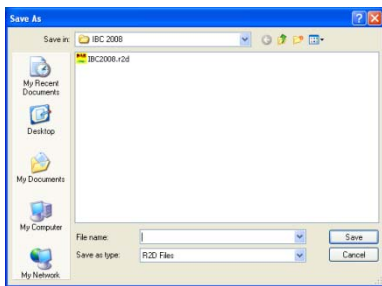


5.3. Output File Selection

Select the output file folder.



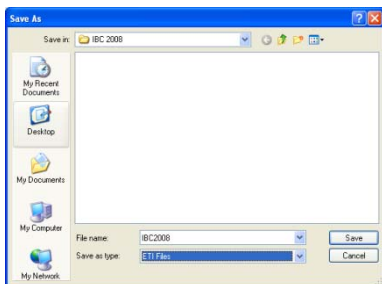
Select the output filename and file extension.



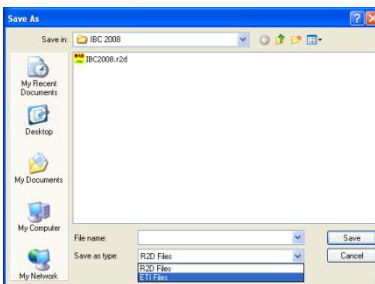
Supported output file extensions are:

**.eti*

**.r2d*



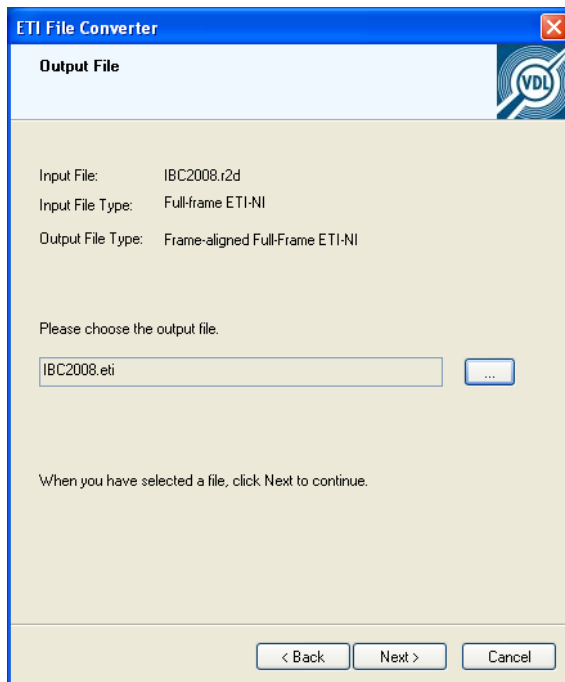
**.eti* file extension



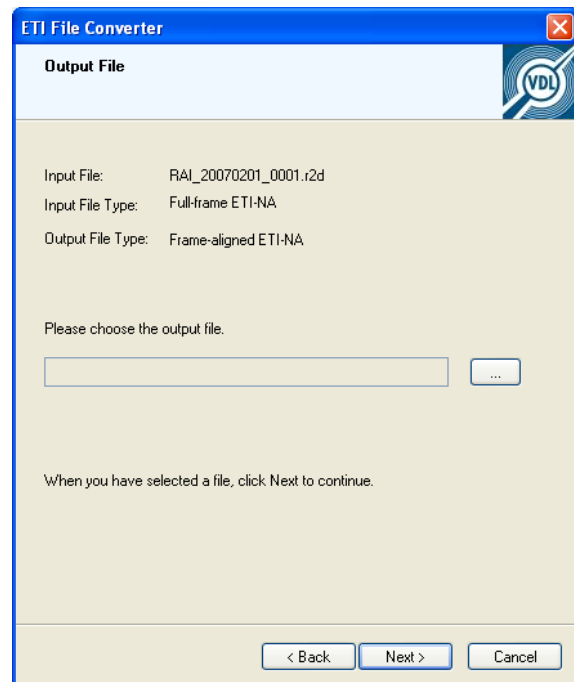
**.r2d* file extension



Confirm the output filename and file extension, click Next to start the conversion.

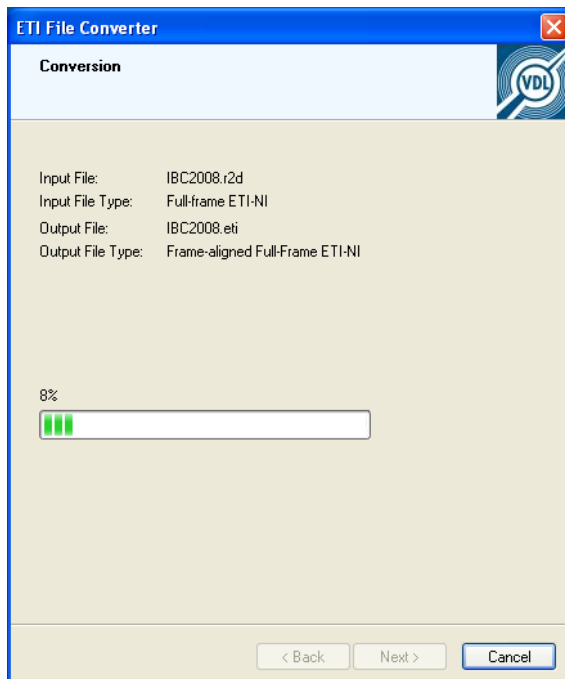


Conversion to ETI-NI

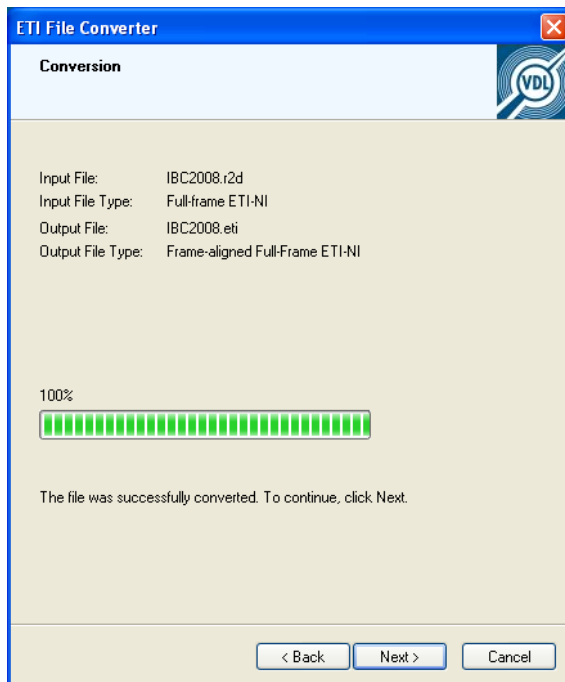


ETI-NA Frame-alignment

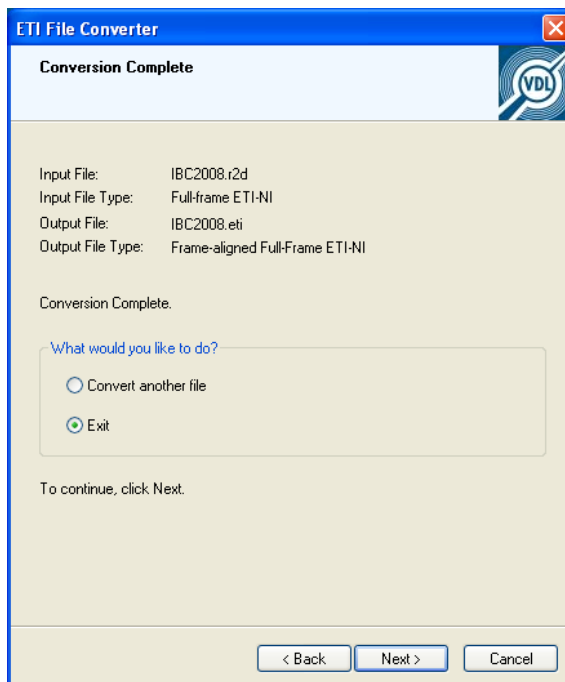
Conversion progress will be displayed.



When conversion is complete, click Next.



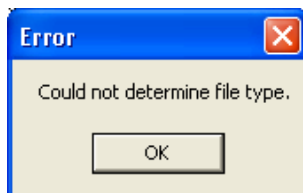
Select Convert another file, or Exit, click Next.



To exit the program, click Finish.



5.4. Unsupported File Format



The input file type is not a supported file format.



6. FILE FORMATS

6.1. Introduction

*.r2d is a full-frame file format, equivalent to the original signal source 2048kb/s stream bit-rate.

For compatibility with VDL's ETI Logger, Recorder and Replayer applications, files that are converted to *.r2d include a 1024-byte file-header that contains information on the source recording, such as file type and stream origin, plus start/stop date/time stamps.

Details of the file header structure are available on request from VDL.

Input files can also be converted to basic ETI-NI format*.eti (without the VDL *.r2d file header), which provides compatibility with the WorldDMB ETI File Library.

6.2. File Extensions

The commonly used file extensions *.eti and *.bin do not provide any indication as to the file format.

The ETI File Converter application scans the file to try and identify the file format.

If the ETI File Converter application is unable to convert a file, this may be due to the file being of a format that is unknown (to VDL), or the file is corrupted.



*Some equipment manufacturers use the *.eti file extension for STI recordings. These are not currently supported by the VDL ETI File Converter.*

6.3. R2D Full-frame

VDL file format for full-frame ETI-NA or ETI-NI recordings with the file extension *.r2d.

Original files may not be frame-aligned (starting and ending on a frame boundary) at the time of recording.

ETI-NA files can either be converted to frame-aligned ETI-NA files, or converted to ETI-NI frame-aligned format.

ETI-NI files will be converted to frame-aligned format.

6.4. ETI Full-frame

Full-frame ETI-NA or ETI-NI recordings, typically with the file extension *.eti or *.bin.

Original files may not be frame-aligned (starting and ending on a frame boundary) at the time of recording.

ETI-NA files can either be converted to frame-aligned ETI-NA files, or converted to ETI-NI frame-aligned format.

ETI-NI files will be converted to frame-aligned format.



6.5. LI Frames with 3-byte FSYNC

Frame-Sync plus LI recordings, typically with the file extension **.eti* or **.bin*.

The source file indicates that the original stream source was ETI-NI if the FSYNC words alternate between 0x073ab6 and 0xf8c549.

The source file indicates that the original stream source was ETI-NA if the 3-byte FSYNC words are set to all zeros.

6.6. LI Frames

LI recordings, typically with the file extension **.eti* or **.bin*.

Note that the source file does not contain any information to indicate whether the original stream source was ETI or STI, NA or NI formats.

6.7. Conversion

The conversion process only changes the file structure, it does not correct corrupted files or errors.

Conversion of compressed **.eti* or **.bin* file formats re-builds the full ETI frame and adds a VDL 1024-byte file header.

Conversion of uncompressed **.eti* or **.bin* file formats frame-aligns the file (to start and end on a frame boundary, if it is not already frame-aligned) and adds a VDL 1024-byte file header.

Conversion of uncompressed **.r2d* files frame-aligns the file (to start and end on a frame boundary) and modifies the existing VDL 1024-byte file header.



7. SUPPORT

7.1. What to do if you have a problem

Firstly, please ensure that you have followed the installation, connection and operation instructions in the appropriate User Guide.

Also, check the Troubleshooting section (where appropriate) to eliminate common problems.

7.2. Servicing, Maintenance and Repairs

Please contact your supplier or VDL for all questions relating to maintenance and repairs.

Any unauthorised attempt to open, modify or otherwise repair the product will invalidate the VDL warranty and may result in the product being left in an irreparable condition.

7.3. If you need Support

For warranty, technical and application support issues, you should initially contact your supplier to check whether your VDL product is covered by warranty, extended warranty or maintenance contract.

At VDL, we will make our best efforts to provide prompt and friendly support by phone, fax and e-mail.

However, please do not expect us to be magicians or mind-readers!

Diagnosing a problem will require your co-operation and we expect you to provide a detailed description of the problem in the form of a detailed Fault Report.

7.4. Support Contact Information

Address:	VDL 60B Avenue Chanoine Cartellier 69230 ST GENIS LAVAL FRANCE
Phone:	+33 (0)4 72 49 89 00
Fax:	+33 (0)4 72 49 89 01
E-Mail:	support@vdl-broadcast.com
Website:	www.vdl-broadcast.com



7.5. Support Requests

When contacting VDL for support, please provide as much information as possible about the problem or issue for which you require assistance.

We will be able to deal with your request more efficiently if you provide the following details (where available) in your Fault Report:

- Part Number or Model Number
- Serial Number
- Software Version
- USB Licence Key serial number
- Details of any symptoms or error messages
- Diagnostics or error status information
- Sequence of events/actions or other circumstances that triggered the problem
- How you are able to identify that there is a problem
- How you have been able to measure, log or otherwise display the problem
- Details of the host PC (if appropriate) including: operating system; hardware configuration; other hardware devices; other installed software applications (including anti-virus and firewall applications)
- Sample data files (if appropriate)

When we acknowledge your support request, you will be given a Support Tracking Number (STN), which should be quoted in all further correspondence relating to that specific support request.



7.6. Returns

Please do not return any products to VDL without first contacting VDL and obtaining a Return Merchandise Authorisation (RMA) Number.

This will ensure that the processing of any repair or upgrade is handled efficiently and in accordance with any agreed action.

If the VDL product is under warranty, repairs are free-of charge. If not, there will be a repair charge, which will comprise an initial evaluation fee and quotation, followed by repair and parts (if authority is given to carry-out the repair).

Pack the item in its original packaging. If the original packaging is not available, it must be packed in such a way to avoid transit damage. Damage sustained in transit is not covered under warranty.

Returned goods should be accompanied by documentation that indicates the RMA Number along with a detailed fault report and contact details (name, organisation, phone, fax and e-mail).

Mark the RMA Number on the outside of the package.

Ship the item by insured, prepaid carrier to the above address.

Items being returned from outside the European Community must be accompanied by a Commercial Invoice. This should include a description of the goods, value for Customs Purposes and state that the goods are being temporarily returned to the UK for repair. VDL will not accept liability for UK importation costs resulting from inadequate documentation.

7.7. End-of-Life Disposal

Your VDL product may be returned to VDL at the end of its life at the customer's expense under the EU regulations on waste from electrical and electronic equipment legislation, provided that the product is free from radiation or biological contaminants and that no other legislation forbids the return.

