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WorldDAB ETI Library

Frequently Asked Questions and

Terms and Conditions of Use

WorldDAB ETI Library

Frequently Asked Questions

What is an ETI File?

ETI files (Ensemble Transport Interface) provide a standardised (ETSI ETS 300 799) method for the distribution of a DAB or DAB⁺ Ensemble from the output of a multiplexer to the input of a modulator/transmitter.

An ETI stream can be recorded at multiplexer/switch output and modulator/transmitter input; it allows comprehensive analysis of the full ensemble, including: frame characteristics, timestamps, error status, signalling, as well as all audio, data and video services. Using proprietary and commercially available software tools, ETI files can be analysed for diagnostics and test/development purposes. An ETI file can also be replayed into a modulator to provide a local on-air signal for receiver testing, demonstrations and exhibitions.

What is the WorldDAB ETI Library?

The WorldDAB ETI Library is an online collection of ETI files. It contains country snapshots of on-air ensembles (ETI files from different markets), ETI files configured with multiplexing equipment from specific manufacturers, as well as test files that can be used for demonstration and testing purposes.

What benefits does the ETI Library offer Manufacturers?

The WorldDAB ETI Library assists receiver manufacturers in testing their products ensuring they include the minimum set of function requirements set out in the WorldDAB Receiver Profiles, making them compatible on a pan-European and worldwide basis.

What benefits does the ETI Library offer Broadcasters?

Broadcasters can use the WorldDAB ETI files to check their own transmissions for conformity, further reducing the risk of inconsistent reception that could arise from complex configuration of the digital broadcasting systems, ensuring receivers operate correctly within their markets.

What files are currently available in the WorldDAB ETI Library?

Please see the PDF document on our website, which shows information on all of the files currently available in the WorldDAB ETI Library. New files from around the world and from different manufacturers are added to the Library on a regular basis.

How to use the ETI library?

WorldDAB members can freely access and download ETI files from the Library, after accepting the Terms and Conditions (see below) for the ETI library. The file collection consists of two segments. 'Test files' are ensemble configurations for testing of specific use cases. 'Country snapshots' represent on-air ensembles complete with services and full broadcast configuration.

Access to the ETI library is a member-only benefit; to find out about the benefits of becoming a member of WorldDAB, please visit our website <http://www.worlddab.org/membership> or contact our Stakeholder Relations Manager, Rebecca Keene: rebecca.keene@worlddab.org

How to contribute a file to the ETI library?

World DAB members can upload an ETI file with a personal login at the member's area of the WorldDAB website. Alternatively a download link can be sent by e-mail to the ETI library administrators at eti.admin@worlddab.org. URLs sent by e-mail must be valid for 7 days. All contributors are asked to provide essential information on the uploaded ETI file in the form fields or within the notification e-mail.

ETI files will be validated by the administrators before being added to the file collection.

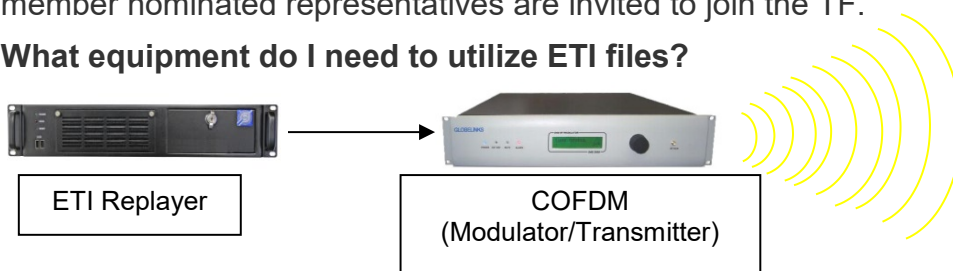
What are the ETI file format details?

Only ETI-NI files are accepted for the WorldDAB ETI library. An ETI-NI file is a binary data file which consists of only fixed size ETI-NI frames without any header. At a minimum, a file should at least record 5,000 frames, worth 2 minutes of ensemble play time. Longer files may be useful and should be provided for specific use cases, such as extensive FIG data or data services. File contributions should use ZIP compression to reduce the physical file size; contributors are requested to provide use case information and description of the ETI file in the ZIP archive.

How is the ETI library maintained?

The WorldDAB ETI library is overseen by the Technical Committee that has established a taskforce (TF ETI Files) for the technical work. Select members of the TF are handling the administrative work of the ETI library, such as validating file contributions. The TF ETI Files provides the technical forum to discuss specifics of ensemble configurations and compliance questions. WorldDAB member nominated representatives are invited to join the TF.

What equipment do I need to utilize ETI files?



To replay the ETI files to your DAB modulator, you will need an ETI Replayer. Some modulator/ transmitters that are designed for testing purposes incorporate an internal ETI Player. To play the ETI file you must upload it onto the lab modulator/ transmitter (e.g., via network or USB memory stick) and the lab modulator/transmitter directly plays the ETI file.

To record ETI files, you need an ETI Recorder. WorldDAB members offering professional equipment to create, record and play-back ETI files can be found on the WorldDAB website under 'Products/Professional equipment'¹

¹ <<https://www.worlddab.org/products/professional-equipment>>

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Terms and Conditions of Use

1. As a condition of downloading any ETI File, the user ("The User") undertakes to accept and abide by these Terms and Conditions.
2. ETI Files include combinations of individual files, any parts of files and all associated documentation which may be made available for download or distributed by WorldDAB whose registered address is c/o EBU, CH-1218, Grand-Saconnex GE, Switzerland, ("WorldDAB").
3. ETI Files made available through the WorldDAB website are offered to The User in good faith as a representation of known or typical transmission parameters and conditions, and are supplied expressly without warranty or guarantee of any kind. The WorldDAB Forum, its officers, members, agents and the creators of the sample ETI Files accept no responsibility either collectively or individually for any ETI File stored and offered for download within this website, for its correct technical performance or compliance with any relevant published standard, or for any damage that may occur to any system tested or operated using any ETI File.
4. Any non-compliance to any appropriate published standard should be reported directly and only to the WorldDAB Project Office with technical details of the suspected error. This will enable ETI Files to be checked and corrected where necessary to improve the accuracy and compliance. The User agrees to keep confidential and not to disclose any details of the ETI Files characteristics, including non-compliance to any appropriate published standard, and The User agrees not to communicate such information by any means to any third party without express written permission from the WorldDAB Project Director.
5. These sample ETI file recordings are provided by courtesy of the respective broadcasters, content providers and network operators and may contain information and content protected by copyright or other agreements. Consequently, ETI Files are provided to The User on the express understanding that they will be used solely for testing of DAB, DAB+ and DMB infrastructure and receiver devices, and under the following conditions:

- a. No ETI File or part of it may be broadcast to the general public in any country.
 - b. ETI Files must not be sold, rented, leased or supplied as part of any public or commercial transaction.
 - c. ETI Files must not be used for any purpose other than testing, development or demonstration. The use of the sample ETI files for any public demonstration or public exhibition is not permitted without express written permission in advance from the WorldDAB Project Director.
 - d. The ETI Files are made available for the exclusive use of The User and his/her organisation provided that The User's organisation is a current and valid member of WorldDAB.
 - e. The User shall not share ETI Files with any other member of WorldDAB without the explicit and written agreement of the WorldDAB Project Director or unless that other member has also accepted these Terms and Conditions through this website.
6. No ETI File or part thereof may be altered, circulated, transmitter, copied, sent or made available for retrieval in any known or unknown format by The User to any person or organisation that is not a current and valid member of WorldDAB without the explicit and written agreement of the WorldDAB Project Director.
 7. The User shall take all reasonable steps to keep safe and protect the security and confidentiality of any ETI File downloaded and stored on any system under their control, and take reasonable steps to prevent any such file becoming infected with any software virus, worm or other threat.
 8. If at any time The User ceases to be a current and valid member of WorldDAB, it shall cease forthwith all use or application of the ETI Files and remove and delete any and all copies of ETI Files from all its systems. Any use of ETI Files by non-members of WorldDAB may be deemed a breach of copyright and of these Terms and Conditions.
 9. The relevant sections of Clauses 1, 3, 4 and 5 shall continue to apply whether or not The User remains as a member of WorldDAB.
 10. These Terms and Conditions shall be governed by Swiss Law.

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