

# TIC for Navigation System Testing

**Save time and improve quality with accurate traffic information tests.**

## Solution for navigation developers

Car and navigation manufacturers must test their navigation systems to ensure their systems, apps, and devices will work consistently.

Data from different locations and traffic information service providers need to be tested in order to avoid creating new versions of systems, apps, and devices for each market.

Many traffic information services providers create and merge different data for countries worldwide. Live traffic information is distributed to navigation systems using RDS-TMC and TPEG.

Developers can make tests in controlled test environments, for example by broadcasting or downloading traffic data samples provided by traffic information service providers and comparing messages received in navigation systems.



## TIC for RDS-TMC Navigation Tests

TIC can be used to broadcast traffic data samples provided by traffic information service providers, or manually created traffic event data, then using UECP connected to RDS encoders on FM transmitters.

TIC can also be used in a real FM broadcast environment to collect data and test broadcast quality.

TIC for RDS-TMC Navigation Tests is available online. Sample TMC data files from service providers can be uploaded over FTP, decoded, and viewed on a map or a list, then compared.

Similar tests as for TPEG tests can be made on TMC location coded data.

## TIC for TPEG Navigation Tests

TIC can be used to manually create traffic event and flow data, and to automatically convert this data into TPEG TEC (traffic event data) and TPEG TFP (traffic flow data).



Messages can be distributed over Internet HTTP using the standard THTTP request and response protocol, or downloaded as a TPEG binary file.

Sample TPEG binary data files from service providers can also be uploaded over FTP, decoded, and viewed on a map or a list, then compared. Traffic data can be location referenced to digital maps with TMC locations or openLR.

TIC for TPEG Navigation Tests is available online.

## Easy to use

Operators can work in teams and use TIC's intuitive user interface to quickly create, update, check, and change data to support different testing scenarios. Training can also be provided.

## Work productively with a proven solution

TIC is a proven Commercial Off-the-Shelf (COTS) product used by hundreds of traffic information service operators worldwide for rapid data entry while supporting information accuracy and quality.

## More information and contacts

Please visit [www.gewi.com](http://www.gewi.com).