

# Example Files for Application Note 7BM79 Documentation

## Products:

- | R&S®IQ Converter 1.02
- | R&S®IQ Stream Extractor 1.02

This document provides overview and explanation for the example files available in the download section of Application Note 7BM79 to ease operation with the related software R&S®IQ Converter and R&S®IQ Stream Extractor.



**ROHDE & SCHWARZ**

# Table of Contents

<b>1</b>	<b>Information on the Current Version and History .....</b>	<b>3</b>
1.1	Version 1.02 .....	3
1.2	Version 1.01 .....	3
1.3	Version 1.00 .....	3
<b>2</b>	<b>Provided Example Files .....</b>	<b>4</b>
2.1	R&S IQ Converter .....	4
2.1.1	Example files for conversion .....	4
2.1.2	Configuration example files .....	4
2.2	R&S Stream Extractor .....	5
2.2.1	Example files for extraction .....	5
2.2.2	Configuration example files .....	5

The following abbreviations are used throughout this document:

R&S® IQ Converter is abbreviated as R&S IQ Converter.

R&S® IQ Stream Extractor is abbreviated as R&S IQ Stream Extractor.

# 1 Information on the Current Version and History

## 1.1 Version 1.02

Additional files:

- IZT\_(R)\_R3000\_CBB\_16bits\_V100.sec

Required R&S IQ Converter version: 1.00 or higher

Required R&S IQ Stream Extractor version: 1.02 or higher

## 1.2 Version 1.01

Improved issues:

- Adjusted endianness in Agilent\_(R)\_16bits\_V101.iqc
- Adjusted header/trailer length in Eiden\_(R)\_16bits\_V101.iqc

Required R&S IQ Converter version: 1.00 or higher

Required R&S IQ Stream Extractor version: 1.00 or higher

## 1.3 Version 1.00

Initial release.

Required R&S IQ Converter version: 1.00

Required R&S IQ Stream Extractor version: 1.00

## 2 Provided Example Files

For each of the two programs, two different kinds of example files are provided:

### 1. Files suitable for conversion / extraction

They can be used by simply adding them to the programs conversion / extraction job list with the integrated file browser.

### 2. Configuration files

Those can be used by copying them to the installation directory of the respective software, which will then auto-detect them within the next startup. Please bear in mind, that the intention of these configuration example files is to ease the use of the related software. Thus it can not be guaranteed, that they will instantly work for all possible input files. Therefore it may be required to adjust them manually for certain input files with the help of the software's powerful analysis functions.

## 2.1 R&S IQ Converter

### 2.1.1 Example files for conversion

No files provided directly. But the extraction of the provided example file for the R&S IQ Stream Extractor in 2.2.1 will create some.

### 2.1.2 Configuration example files

File Name	Explanation
<b>Rohde &amp; Schwarz</b>	
R&S_(R)_SFx_V100.iqc	This is the ARB IQ waveform format for the R&S®SFU, R&S®SFE and R&S®SFE100. Being the output format of the R&S IQ Converter, you can use this configuration to view or signal process already converted waveforms.
R&S_(R)_FSQ_V100.iqc	Use this configuration file to convert IQ captures from an R&S®FSQ signal analyzer. The sample rate is set to 10 MHz and may need to be adapted for a certain input file.
R&S_(R)_PR100_V100.iqc	After the R&S IQ Stream Extractor has demultiplexed a packet-orientated file recording of the R&S®PR100, the result can then be finally converted with this configuration.
<b>Agilent®</b>	
Agilent_(R)_16bits_V101.iqc	Use this configuration file for 16bit based Agilent® waveform files. You may have to adjust header length and/or samplerate.
<b>Eiden®</b>	
Eiden_(R)_16bits_V101.iqc	Use this configuration file for 16bit based Eiden® waveform files. You may have to adjust header length and/or samplerate.

## 2.2 R&S Stream Extractor

### 2.2.1 Example files for extraction

File Name	Explanation
<b>Rohde &amp; Schwarz</b>	
R&S_(R)_PR100_StreamExample_V100.riq	Demo recording of the R&S®PR100 to be extracted by the R&S IQ Stream Extractor.

### 2.2.2 Configuration example files

File Name	Explanation
<b>Rohde &amp; Schwarz</b>	
R&S_(R)_PR100_V100.sec	Use this configuration to extract R&S®PR100 IQ recordings with the R&S IQ Stream Extractor.
<b>IZT®</b>	
IZT_(R)_R3000_CBB_16bits_V100.sec	Use this configuration to extract the 16 bit complex baseband (CBB) information from an IZT®R3000 IQ recording with the R&S IQ Stream Extractor. The result is written to the file '1.iqs' to be then further processed with the R&S IQ Converter.

### About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

### Environmental commitment

- Energy-efficient products
- Continuous improvement in environmental sustainability
- ISO 14001-certified environmental management system



### Regional contact

Europe, Africa, Middle East

+49 89 4129 12345

[customersupport@rohde-schwarz.com](mailto:customersupport@rohde-schwarz.com)

North America

1-888-TEST-RSA (1-888-837-8772)

[customer.support@rsa.rohde-schwarz.com](mailto:customer.support@rsa.rohde-schwarz.com)

Latin America

+1-410-910-7988

[customersupport.la@rohde-schwarz.com](mailto:customersupport.la@rohde-schwarz.com)

Asia/Pacific

+65 65 13 04 88

[customersupport.asia@rohde-schwarz.com](mailto:customersupport.asia@rohde-schwarz.com)

This application note and the supplied programs may only be used subject to the conditions of use set forth in the download area of the Rohde & Schwarz website.

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG; Trade names are trademarks of the owners.

**Rohde & Schwarz GmbH & Co. KG**

Mühlhofstraße 15 | D - 81671 München

Phone + 49 89 4129 - 0 | Fax + 49 89 4129 - 13777

[www.rohde-schwarz.com](http://www.rohde-schwarz.com)