

Release Notes

Software Version 5.18.1.39563

© 2018 Rohde & Schwarz GmbH & Co. KG
Muehldorfstr. 15, 81671 Munich, Germany
Phone: +49 89 41 29 - 0
Fax: +49 89 41 29 12 164
E-mail: <mailto:customersupport@rohde-schwarz.com>
Internet: <http://www.rohde-schwarz.com>

Subject to change – Data without tolerance limits is not binding.
R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG.
Trade names are trademarks of the owners.

The following abbreviations are used throughout this document:
R&S®RAMON is abbreviated as R&S RAMON.

Table of Contents

1	Scope	3
1.1	Purpose.....	3
2	General Information.....	4
2.1	Base Version Identifier	4
2.2	General Remarks	4
2.3	Discontinued Products	5
2.4	List of Software Components.....	5
2.5	Requirements	5
2.6	Contact Information.....	5
3	Functionality	6
3.1	New Features and Major Changes	6
3.2	Closed Problems.....	7
3.2.1	ESMD Family/EB500 Family/PR100 Family	7
3.2.2	ESMD Family/EB500 Family	7
3.2.3	EB500 Family.....	7
3.2.4	PR100 Family	7
3.3	Known Limitations.....	8
3.3.1	ESMD Family/EB500 Family/PR100 Family	8
3.3.2	ESMD Family/EB500 Family	8
3.3.3	ESMD Family	8
3.3.4	PR100 Family	8
3.4	Supported Firmware Versions.....	9
4	Open Source Components.....	10

1 Scope

1.1 Purpose

This document describes the characteristics of the RAMON software. Problems of other components, which were observed during the system test, are also reported in this document. A new document will be created for each software release.

2 General Information

2.1 Base Version Identifier

Product Name	RAMON Receiver
Release	5.18.1.39563
Build date	2018-09-20

2.2 General Remarks

The software was tested under the conditions stated in section 2.5. Windows 7 (64) Service Pack 1 and Windows Server 2008R2 are supported.

All Ramon work stations have to be time synchronized with a maximum deviation of 3 seconds compared to the time source.

For creating analog signal packages with the simulation editor the software FFmpeg must be installed. The software is not part of RAMON. For FFmpeg see www.ffmpeg.org.

If the receiver box versions are installed with an AMREC box version, the AMREC Manager software should be started before the receiver software.

Even though different versions of RAMON might be installed, there is no guarantee that the data which might be exchanged between the applications are compatible.

FW 5.60 for PR100 family is not supported for Ramon as there is a firmware bug that can cause the waterfall in Ramon display to freeze.

2.3 Discontinued Products

The following products/options are not available any more:

- E55-CTL
- E51-CTL
- E05-CTL

2.4 List of Software Components

Type	Contents	Part number	Version
PR1-CTL	PR100 Control	3020.8164.02	5.18.1.39563
EM1-CTL	EM100 Control	3020.8064.02	5.18.1.39563
EB5-CTL	EB500 Control	3025.2612.02	5.18.1.39563
EB51-CTL	EB510 Control	3025.2629.02	5.18.1.39563
EMD-CTL	ESMD Control	3020.8070.02	5.18.1.39563
ESME-CTL	ESME Control	3029.8944.02	5.18.1.39563
EMDDF-CTL	DF Support for ESMD control	3020.8087.02	5.18.1.39563
DDF007-CTL	DDF007 Control	3025.2806.02	5.18.1.39563
DDF20-CTL	DDF205 Control	3025.2635.02	5.18.1.39563
DDF25-CTL	DDF255 Control	3020.8787.02	5.18.1.39563
DDF260-CTL	DDF260 Control	3029.8967.02	5.18.1.39563
DDF20M-CTL	DDF200M Control	5670.0120.02	5.18.1.39563
DDF155-CTL	DDF1555 Control	5670.0013.02	5.18.1.39563

2.5 Requirements

The RAMON Software is designed for Microsoft Windows operating systems.

It was tested under the following conditions.

Component	Version
Operating System	Windows 10 Professional Windows Server 2016
Graphics Card	NVIDIA Quadro or Intel HD Graphics with support of OpenGL 2.1 or higher

2.6 Contact Information

For additional support please contact customersupport@rohde-schwarz.com

Please reference Order Number, Product Name, Release and Build Number.

3 Functionality

3.1 New Features and Major Changes

This chapter covers new features since RAMON version 5.17.1.

- Support for new ESME and DDF260 driver and GUI for box only.
- Automatic antenna switching between DF and Rx antennas when toggling between DF & AF modes.
- Support for frequency range in frequency store and new context menu on frequency range bar.
- Support for translation of device error messages shown on Receiver GUI.
- When ToReport is clicked while recording, recording will stop and the stop time is recorded in the report. A new recording will then automatically start again.
- Old spectrum data is cleared on starting new Scan/Search/DF-Search/PScan operation.

3.2 Closed Problems

Closed Problems since RAMON version 5.17.1.

3.2.1 ESMD Family/EB500 Family/PR100 Family

ID	Description
68062	LogPer Antenna rotator was allowed even in FFM DF On.
12828	While Multiple Scan Range feature is active, adding suppressed frequency is possible via "Shift+F7" hotkey and context menu.
162377	When the device is in DF MSEARCH mode, changing to other modes may sometimes need a retry.

3.2.2 ESMD Family/EB500 Family

ID	Description
422899	Receiver GUI stops responding when using Digital Video with high IF bandwidth, e.g. 250kHz.

3.2.3 EB500 Family

ID	Description
123942	IQ recording at 5 MHz bandwidth has no spectrum intermittently for about a second.

3.2.4 PR100 Family

ID	Description
100248	Selecting IQ as recording source while on DF ON generated an error in status bar.
123061	CHM always show "Default" on the "Receiver Connected Antennas" field.
413814	No data recorded in DF mode for CSV recording with FW versions 6.10 and 6.21 due to a bug in device firmware

3.3 Known Limitations

The known limitations are selected for relevance and importance. Minor issues are not listed here.

3.3.1 ESMD Family/EB500 Family/PR100 Family

ID	Description	Work-around
113883	Waterfall data gets truncated when widget or GUI is resized.	
288607	Adding suppress during Search mode will sometimes remove or revise previous spectrum data in the first suppressed scan.	

3.3.2 ESMD Family/EB500 Family

ID	Description	Work-around
67723	Azimuths stopped updating on WFFM when DF BW was changed in device.	After changing DF BW in device, click DF Off then DF On again to stabilize sw. But this would change also DF BW in device.
358386	Setting very low measurement time, eg. 0.0005s, and periodic measurement mode, may result in high CPU usage and unresponsive GUI in WFFM mode.	Close GUI then re-launch without closing the driver.

3.3.3 ESMD Family

ID	Description	Work-around
67316	Multiple scan range is not working when Downconverter is used.	
100178	Down Converter does not work in combined setup.	

3.3.4 PR100 Family

ID	Description	Work-around
475867	Receiver GUI does not update recording status when recording is started and stopped from device.	

3.4 Supported Firmware Versions

Device	Recommended Version	Supported Versions
DDF007	6.30	>=5.20
DDF1555	6.30	>=5.50
DDF200M	2.31	>=1.50
DDF205	4.70	>3.55
DDF255	5.00	>3.91
DDF260	5.20	>=5.20
EB500	4.90	>3.55
EB510	4.70	>2.50
EM100	6.30	>=5.20
ESMD	5.00	>3.91
ESME	5.20	>=5.20
PR100	6.30	>=5.20

4 Open Source Components

Open Source Components used in these programs are listed in the document “OpenSource_Acknowledgement.pdf”, which is included on the installation media.