

Rohde & Schwarz

CMW100应用操作指引

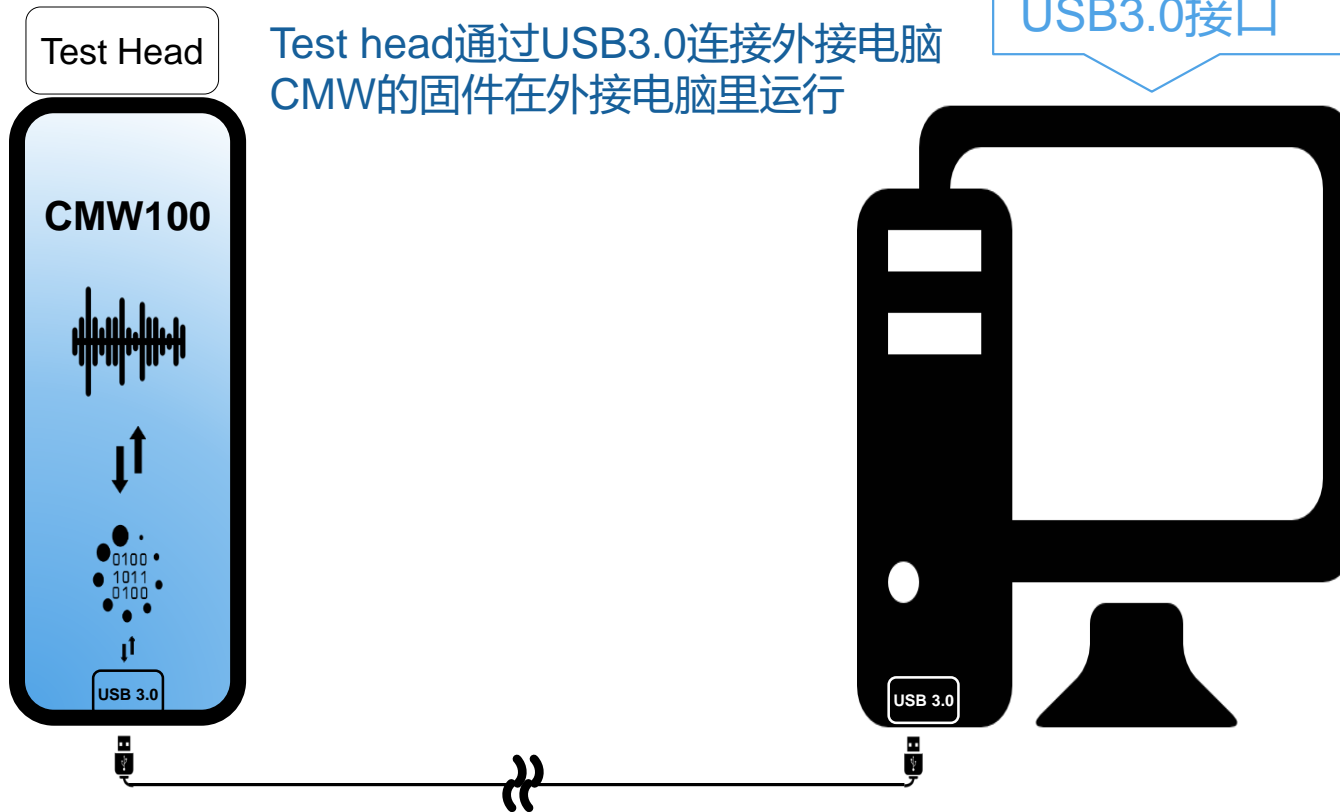
1. 仪表简介
2. 操作指导
3. 异常处理

CMW100 – 现代化产线非信令测试专家

8个全双工射频端口（支持广播和切换模式）



CMW100 – 分离计算模块

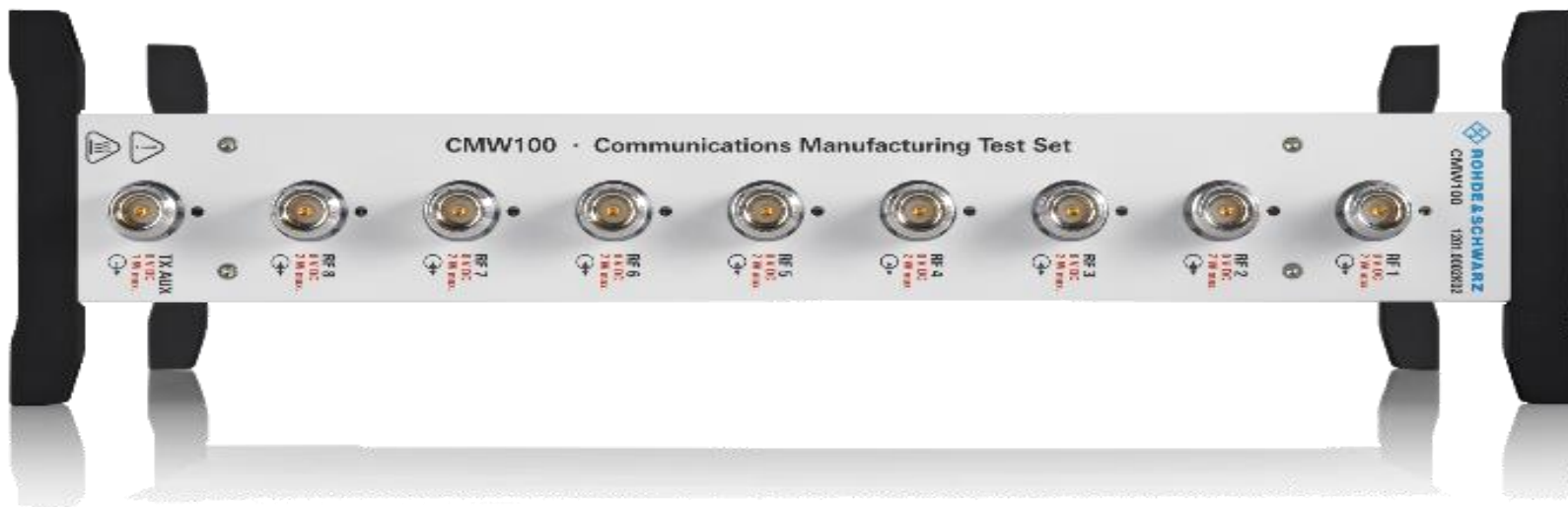


CMW100 – 革新的设计理念

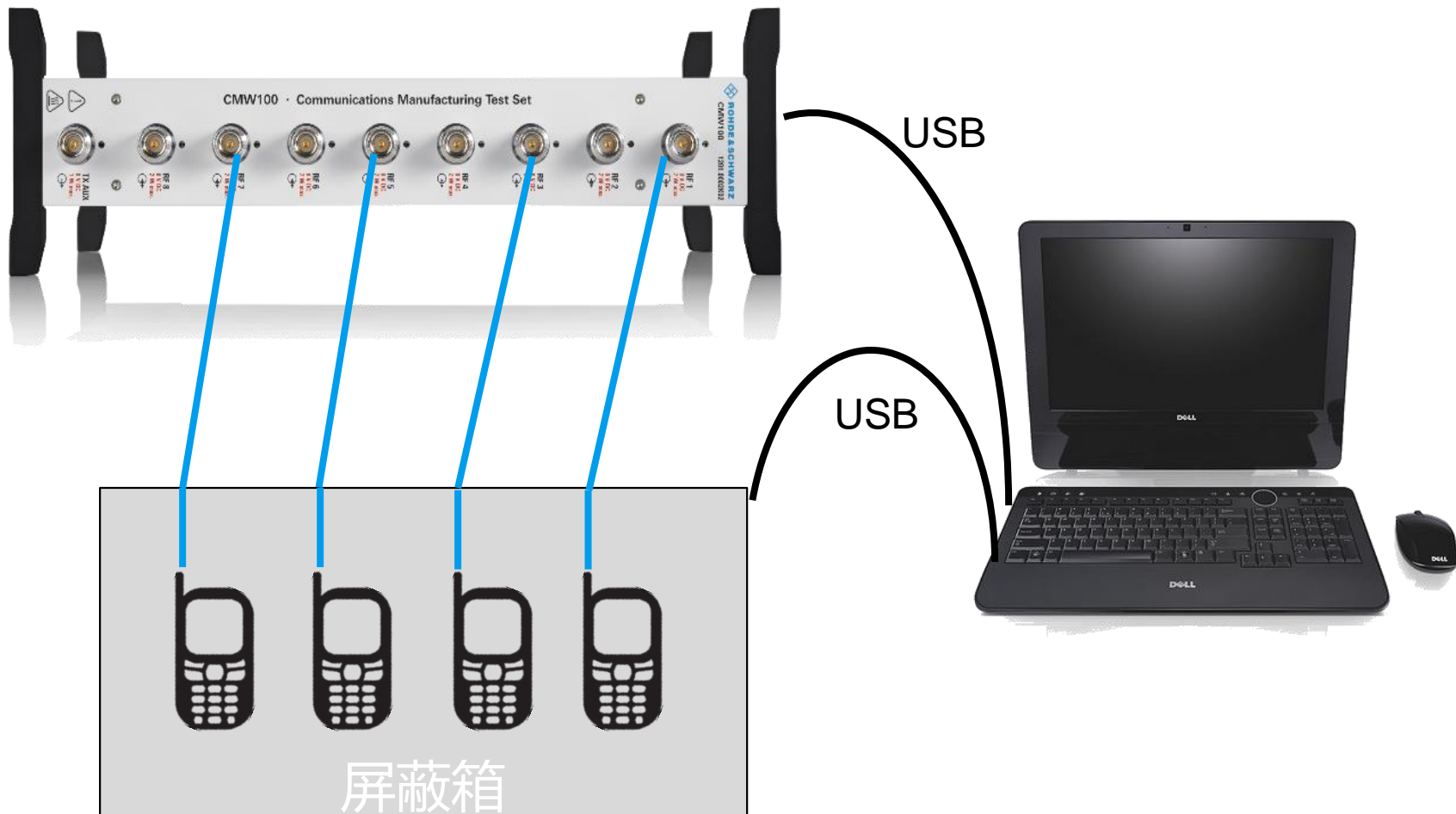
- 分离计算模块，让固件运行在外接电脑：
 - 速度提升更加实惠
 - 通过更新电脑的CPU即可提升速度
 - 可以最早时间升级到最快的CPU
 - 更加灵活
- 体积小，质量轻，节能环保
 - 功耗<80W
 - 发热低，提高无故障工作时间
 - 安静！
- 被动散热，无风扇，无通风孔，不会进灰尘
- 多种测试效率提升方案，应对产线的不同需求，实现最佳仪器利用率

CMW100 – 产线程序代码兼容性














- 通用GPRF功能
- 发射机测试：沿用CMW500各通信制式发射机测试功能
- 接收机测试：沿用CMW500的各种芯片波形库 (CMW-KVxxx)



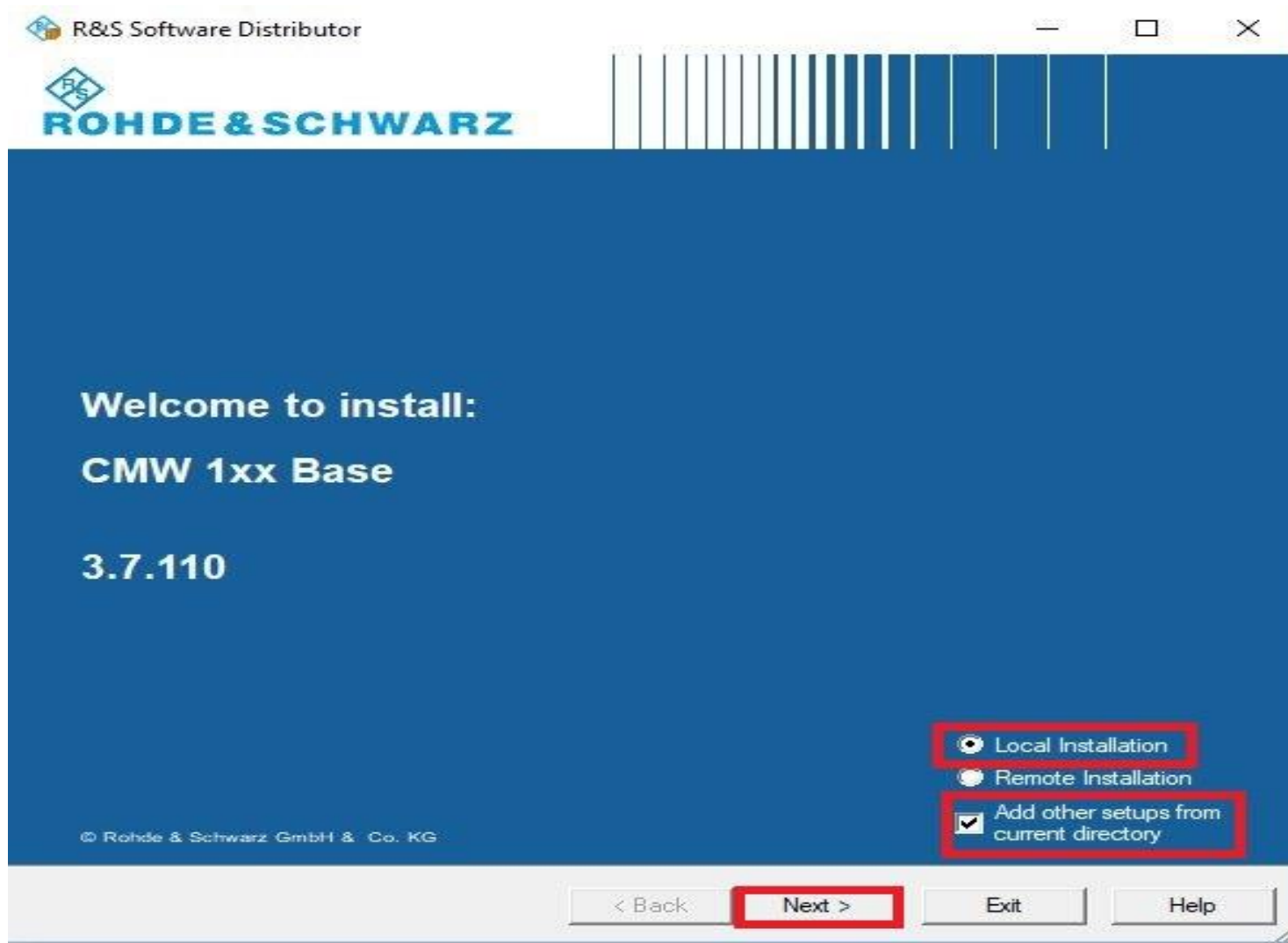
多DUT测试



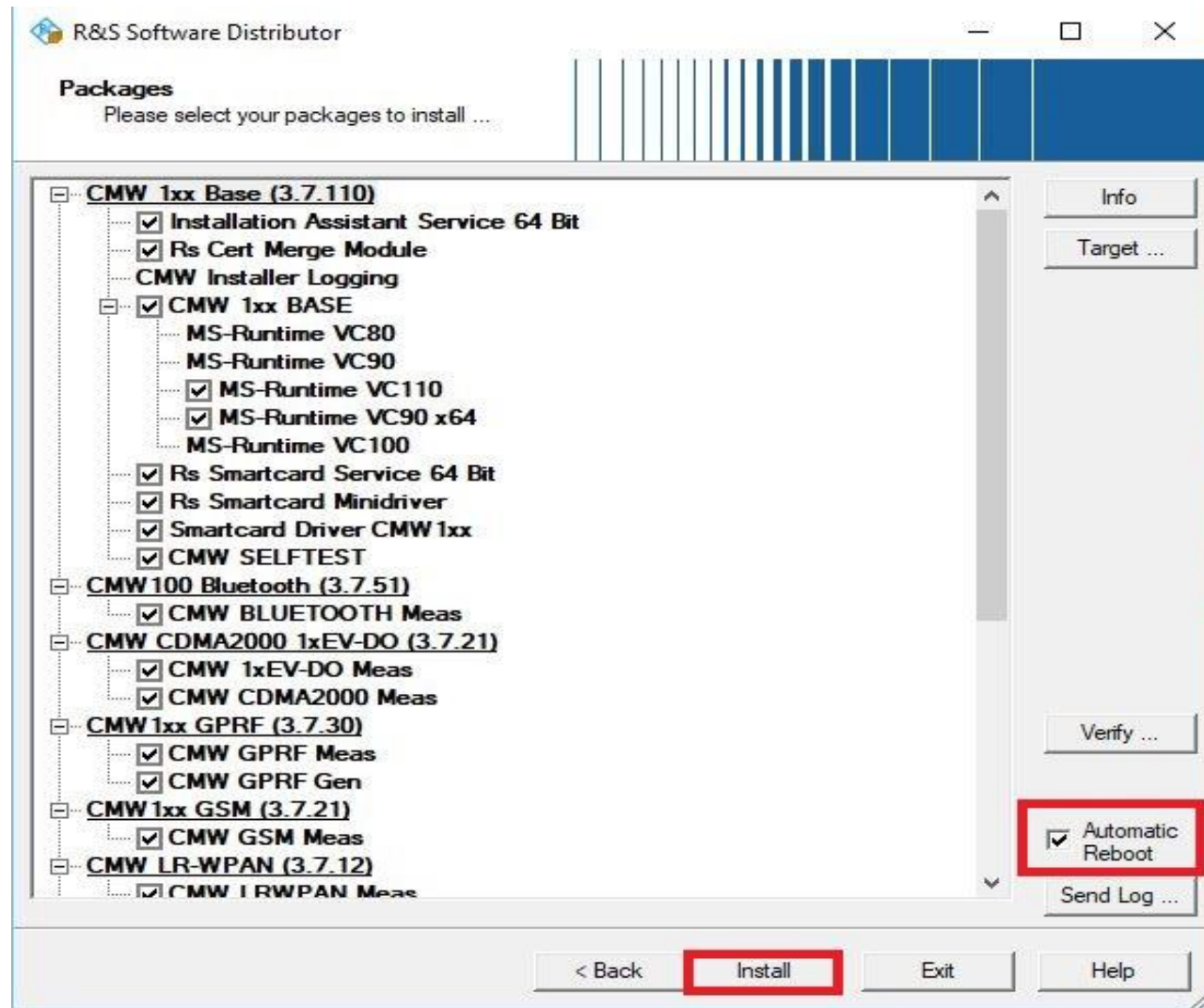
Firmware安装

 Setup_CMW1xx_BASE(release)_3.7.110_64Bit.exe	2/7/2019 2:23 PM	Application	552,287 KB
 Setup_CMW1xx_Bluetooth(RELEASE)_3.7.51_64Bit.exe	9/21/2018 1:28 PM	Application	7,144 KB
 Setup_CMW1xx_CDMA2000_1xEV-DO(RELEASE)_3.7.21_64Bi...	3/27/2018 3:33 PM	Application	5,671 KB
 Setup_CMW1xx_GPRF(RELEASE)_3.7.30_64Bit.exe	9/21/2018 1:28 PM	Application	9,836 KB
 Setup_CMW1xx_GSM(RELEASE)_3.7.21_64Bit.exe	9/21/2018 1:28 PM	Application	5,367 KB
 Setup_CMW1xx_LR-WPAN(RELEASE)_3.7.12_64Bit.exe	3/27/2018 3:34 PM	Application	2,863 KB
 Setup_CMW1xx_LTE(Release)_3.7.55_64Bit.exe	9/21/2018 1:29 PM	Application	9,212 KB
 Setup_CMW1xx_LTE_eNodeB(RELEASE)_3.7.32_64Bit.exe	12/27/2018 7:27 PM	Application	4,012 KB
 Setup_CMW1xx_NB_IoT(RELEASE)_3.7.14_64Bit.exe	3/27/2018 3:35 PM	Application	4,515 KB
 Setup_CMW1xx_NRSUB6G(RELEASE)_3.7.30.10_64Bit.exe	1/30/2019 9:14 AM	Application	4,852 KB
 Setup_CMW1xx_TDSCDMA(RELEASE)_3.7.13_64Bit.exe	3/27/2018 3:35 PM	Application	7,663 KB
 Setup_CMW1xx_WCDMA(RELEASE)_3.7.16_64Bit.exe	6/6/2018 10:16 AM	Application	8,588 KB
 Setup_CMW1xx_WLAN(RELEASE)_3.7.33_64Bit.exe	9/21/2018 1:29 PM	Application	8,290 KB

Firmware安装

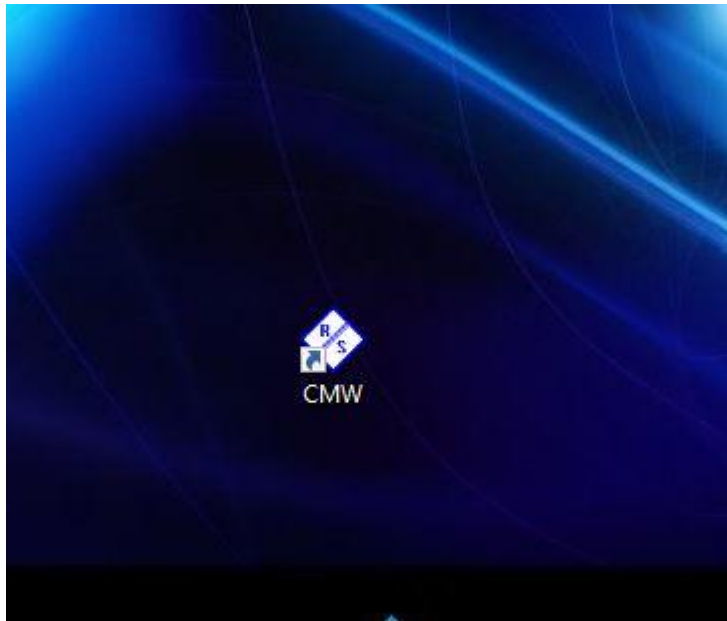


Firmware安装



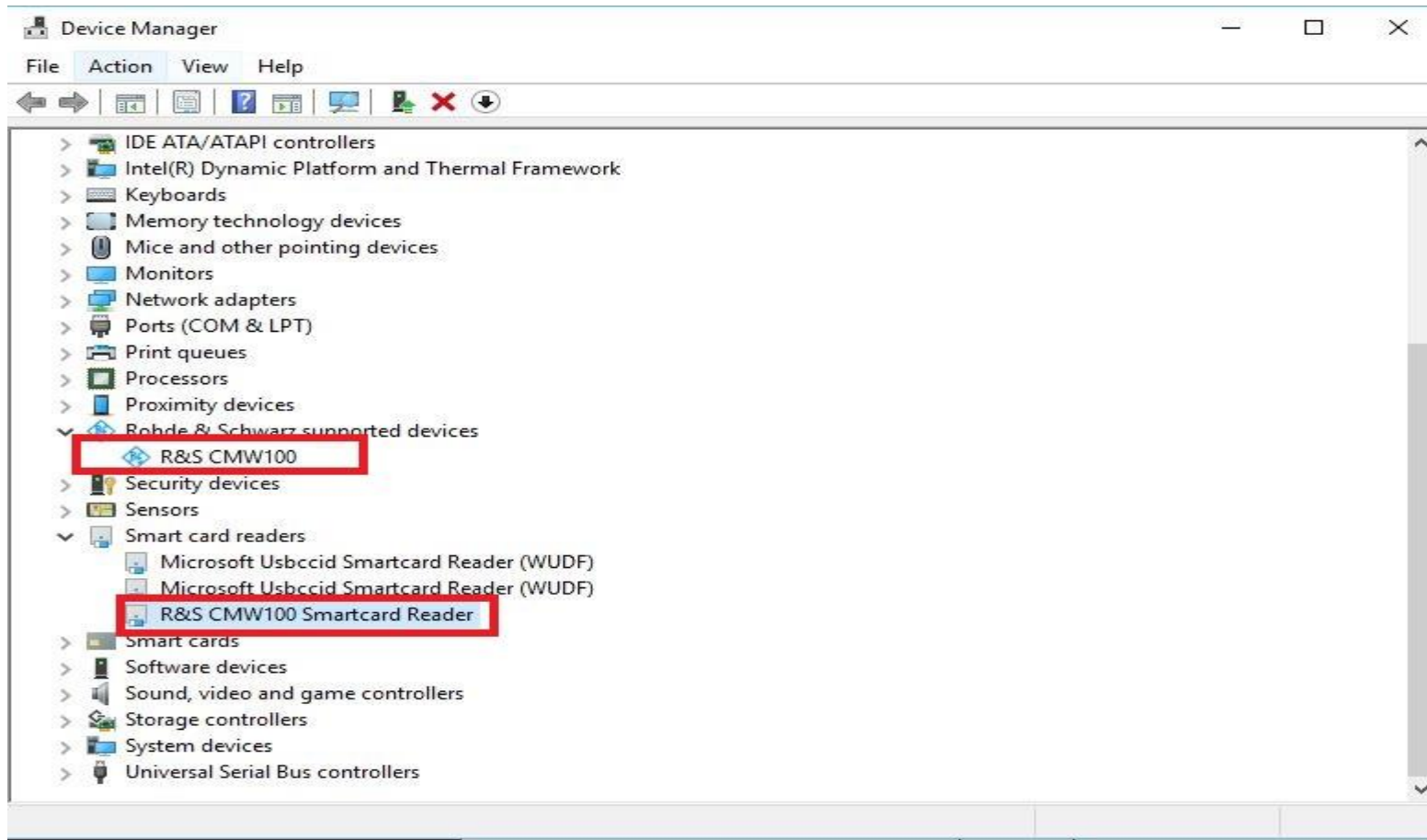
Firmware安装

安装完成后会出现如下图标

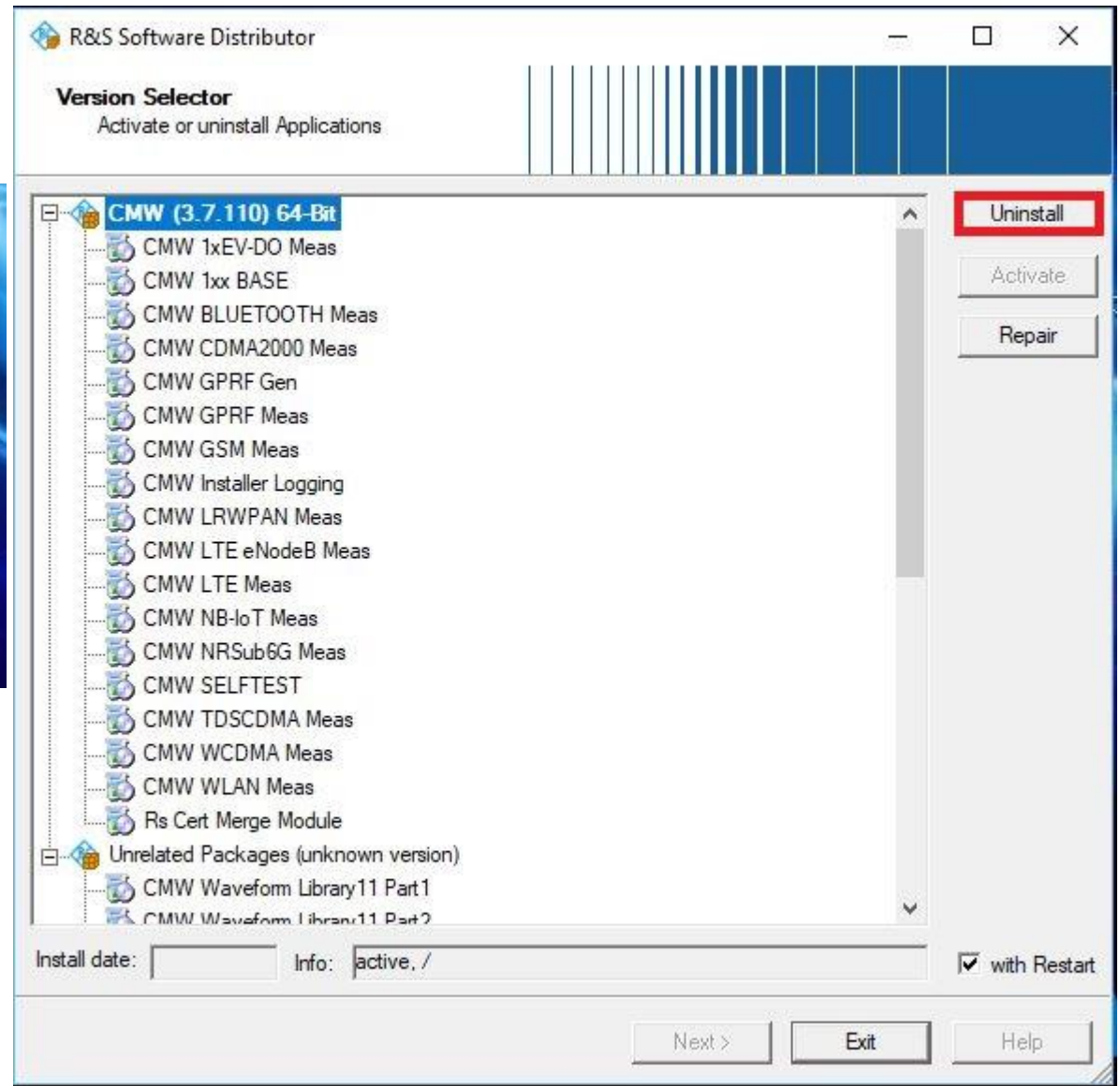
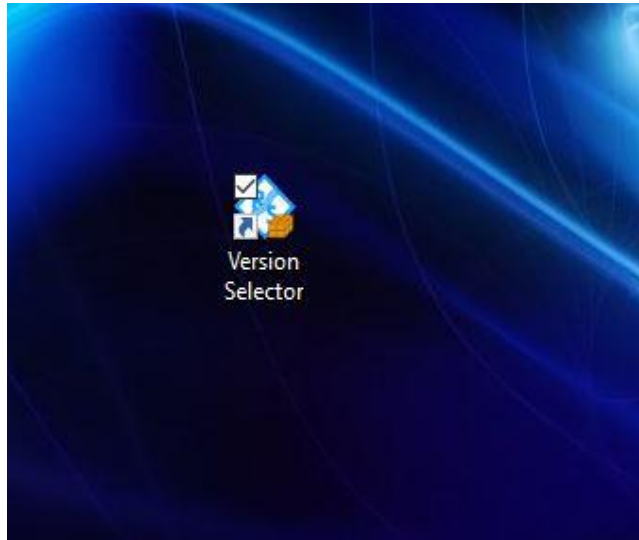


Firmware安装

安装完成后，设备管理器会出现这两个设备



Firmware卸载



Selftest

CMW

Setup

- System
- Remote
 - License Keys
 - Active License Keys
 - Portable License Keys
 - Deactivation Keys
 - Inactive License Keys
 - SW/HW-Equipment
- Maintenance
 - Selftest
 - Internal Path Corr.
- Misc
 - Sync
 - Trigger
 - Freq. Dep. Corr. Tab...
 - Multi-CMW

Selftest (User Mode: User)

Start Automatically ☐

Repetition Mode **Single Shot**

Stop Condition **None**

Selection Filter *

Enable Disable

- CMW-H16E CMW100 TE...
 - DIGITAL BOARD 160...
 - Detailed Test
 - USB to FPGA ☒
 - Diagnosis Test ☐
 - Driver Init Test ☐
 - EEProm Test ☐
 - PCIe ☐
 - Ram Test ☐
 - Temperature Test ☐
 - RF MUX BOARD\A12... ☐
 - RFRX MODULE OF T... ☐
 - RFTX MODULE OF T... ☐
 - Unit Test ☐

Progress / Detailed Description

Repetition... Stop condition... ☒ Enable all ☐ Disable all

Setup

Selftest **OFF**

Save profile

Load profile

User Mode Login

Progress

Detailed

Navigation

Hide

RESET

INFO

SAVE RCL

SAVE

SETUP

PRINT

HELP

SYS SYSTEM

DEVICE

WIZARD

BLOCK VIEW

MEASURE

SIGNAL GEN

ON OFF

RESTART STOP

TASKS

Selftest

CMW

Setup

System

Remote

License Keys

- Active License Keys
- Portable License Keys
- Deactivation Keys
- Inactive License Keys

SW/HW-Equipment

Maintenance

- Selftest
- Internal Path Corr.

Misc

- Sync
- Trigger
- Freq. Dep. Corr. Tab...
- Multi-CMW

Selftest (User Mode: User)

Start Automatically ☐

Repetition Mode Single Shot

Stop Condition None

Selection Filter *

Enable Disable

CMW-H16E CMW100 TE...

- DIGITAL BOARD 160...
 - Detailed Test
 - USB to FPGA ☒ passed
 - Diagnosis Test ☒ passed
 - Driver Init Test ☒ passed
 - EEPROM Test ☒ passed
 - PCIe ☒ passed
 - Ram Test ☒ passed
 - Temperature Test ☒ passed
 - RF MUX BOARD A12... ☒ passed
 - RFRX MODULE OF T... ☒ passed
 - RFTX MODULE OF T... ☒ passed
- Unit Test ☒ passed

Progress / Detailed Description

Repetition... Stop condition... ☒ Enable all ☐ Disable all ☒ Enable subtree ☐ Disable subtree

Setup

Selftest

RDY

Save profile

Load profile

User Mode Login

Progress

Detailed

Navigation

Hide

RESET

INFO

SAVE

SETUP

PRINT

HELP

SYSTEM

DEVICE

WIZARD

BLOCK VIEW

MEASURE

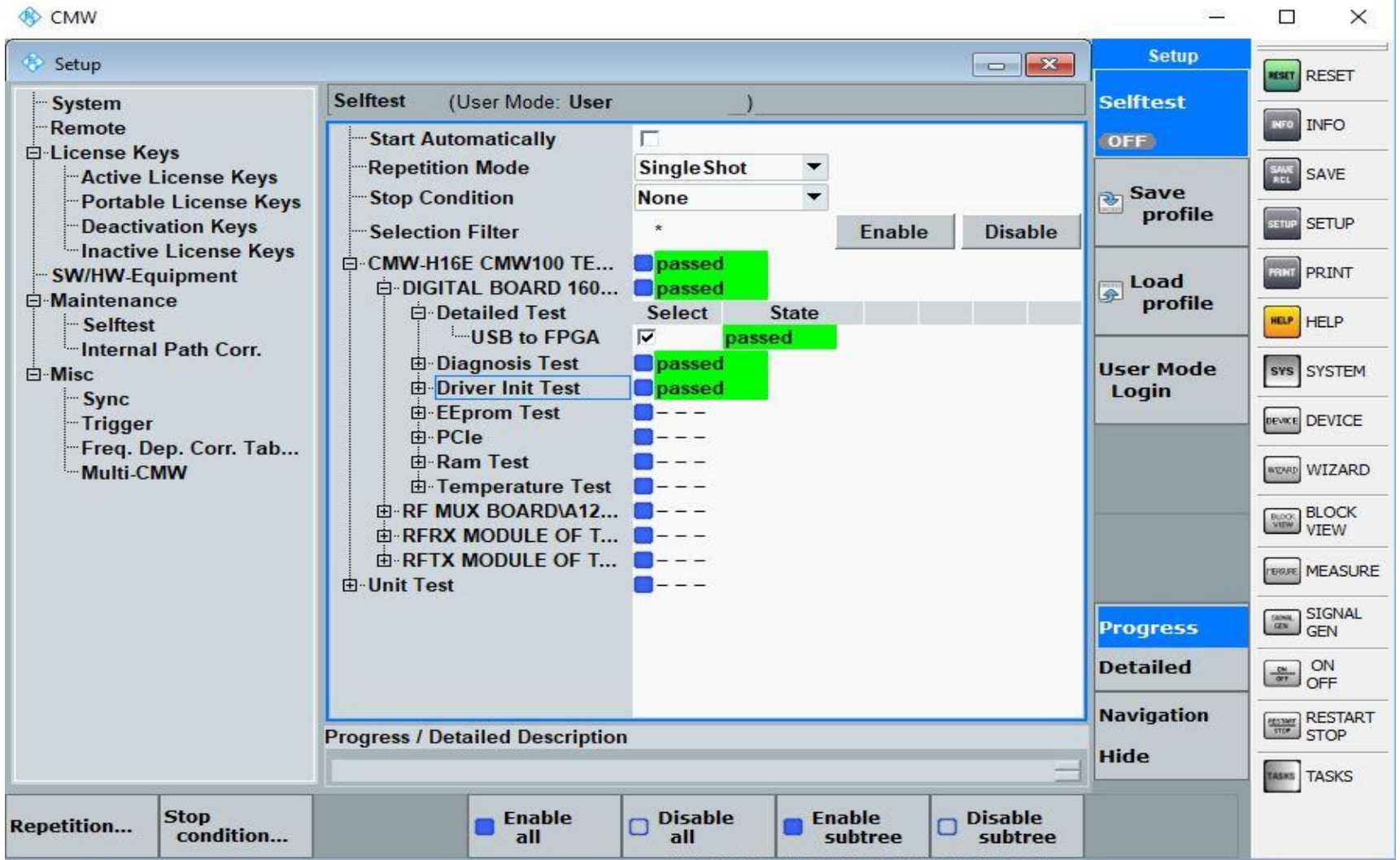
SIGNAL GEN

ON OFF

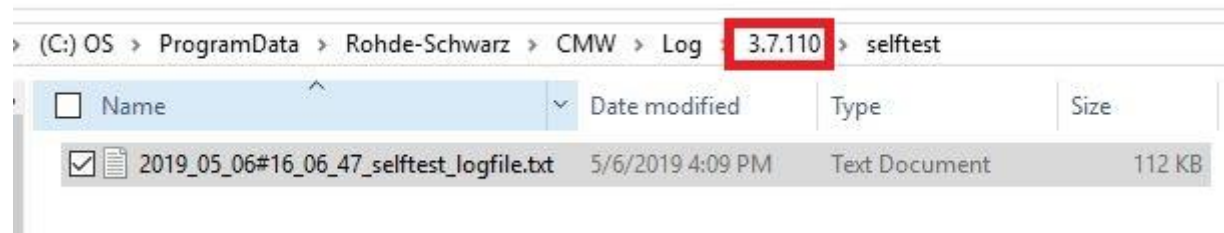
RESTART STOP

TASKS

USB3.0判断



USB3.0判断



查看仪表固件版本

The screenshot shows the CMW Setup application window. The left sidebar contains a tree view with the following items: System, Remote, License Keys (Active License Keys, Portable License Keys, Deactivation Keys, Inactive License Keys), **SW/HW-Equipment** (highlighted with a red box), Maintenance (Selftest, Internal Path Corr.), and Misc (Sync, Trigger, Freq. Dep. Corr. Tab..., Multi-CMW). The main area is titled 'SW/HW-Equipment' and contains a sub-section 'Installed Software' (also highlighted with a red box). This section displays a table with the following data:

	Version	Status
CMW 1xEV-DO Meas	V 3.7.21	OK
CMW 1xx BASE	V 3.7.110	OK
CMW BLUETOOTH ...	V 3.7.51	OK
CMW CDMA2000 Meas	V 3.7.21	OK
CMW GPRF Gen	V 3.7.30	OK
CMW GPRF Meas	V 3.7.30	OK
CMW GSM Meas	V 3.7.21	OK
CMW Installer Loggi...	V 3.7.110	OK
CMW LRWPAN Meas	V 3.7.12	OK
CMW LTE eNodeB M...	V 3.7.32	OK
CMW LTE Meas	V 3.7.55	OK
CMW NB-IoT Meas	V 3.7.14	OK
CMW NRSub6G Meas	X 3.7.30.10	OK
CMW SELFTEST	V 3.7.110	OK
CMW TDSCDMA Meas	V 3.7.13	OK
CMW WCDMA Meas	V 3.7.16	OK
CMW WLAN Meas	V 3.7.33	OK

Below the table, the 'Info' section displays 'Hardware Configuration.' The right-hand side of the window features a 'Setup' menu with buttons for RESET, INFO, SAVE, **SETUP** (highlighted with a red box), PRINT, HELP, SYSTEM, DEVICE, WIZARD, BLOCK VIEW, MEASURE, SIGNAL GEN, ON/OFF, RESTART STOP, and TASKS. A 'Navigation' section at the bottom right contains a 'Hide' button.

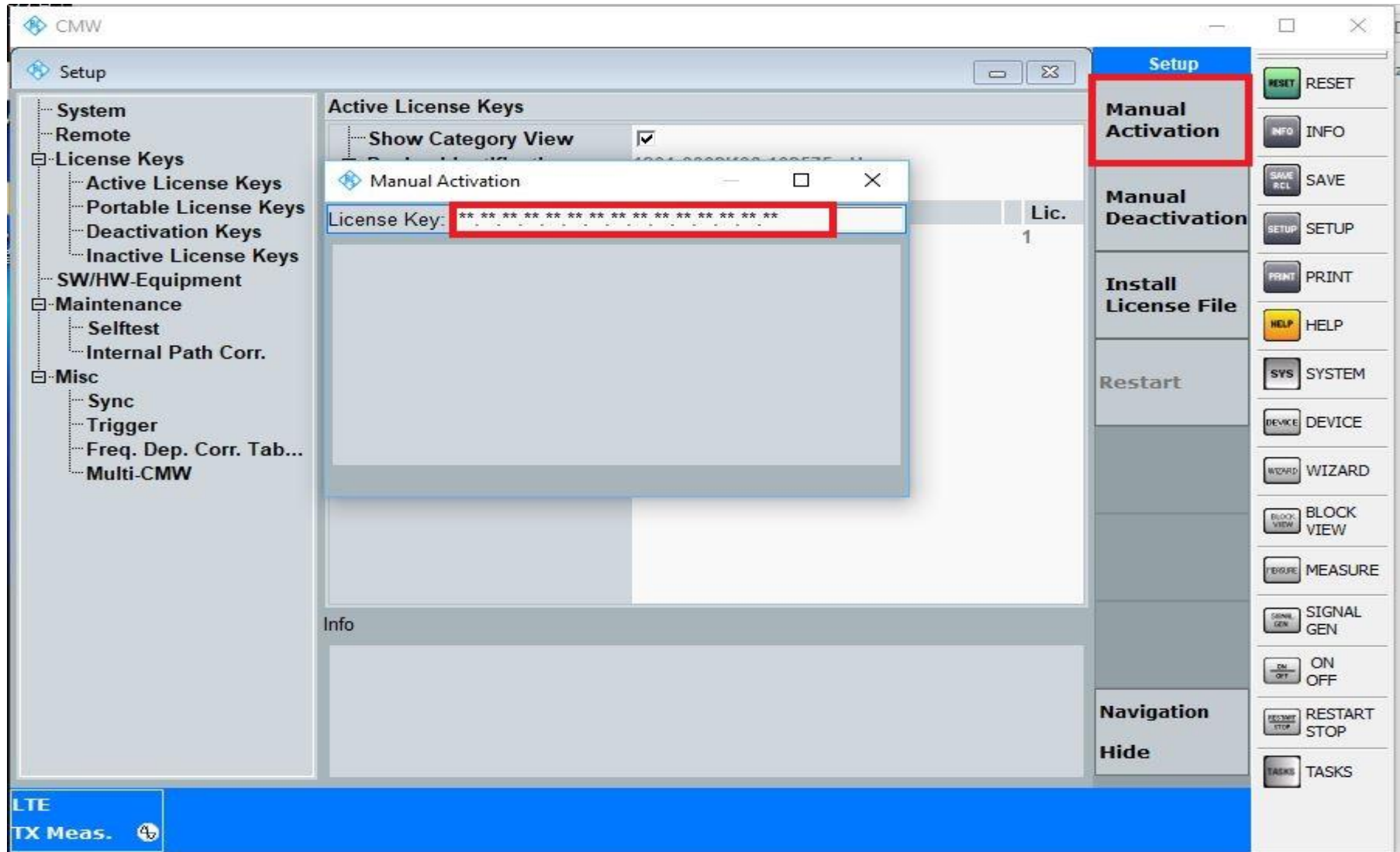
查看仪表License

The screenshot shows the CMW Setup window with the following details:

- Left Panel (Setup):** A tree view with 'License Keys' expanded, and 'Active License Keys' selected.
- Active License Keys Table:**

Name	Lic.
K0	CMW DEMO 18M
- Info Section:**
 - License Key: 33 10 66 14 32 01 72 96 25 81 08 34 92 42 72
 - Part No.: 1203.1858.XX
 - License Type: Demo
 - Validity: 387 days 13 hours (from 2018-11-27 16:00 until 2020-05-28 16:00 (GMT))
 - Date of Issue: 2018-11-27 16:06
- Right Panel (Manual Deactivation):** A vertical stack of buttons. The 'SETUP' button is highlighted.

激活license - key

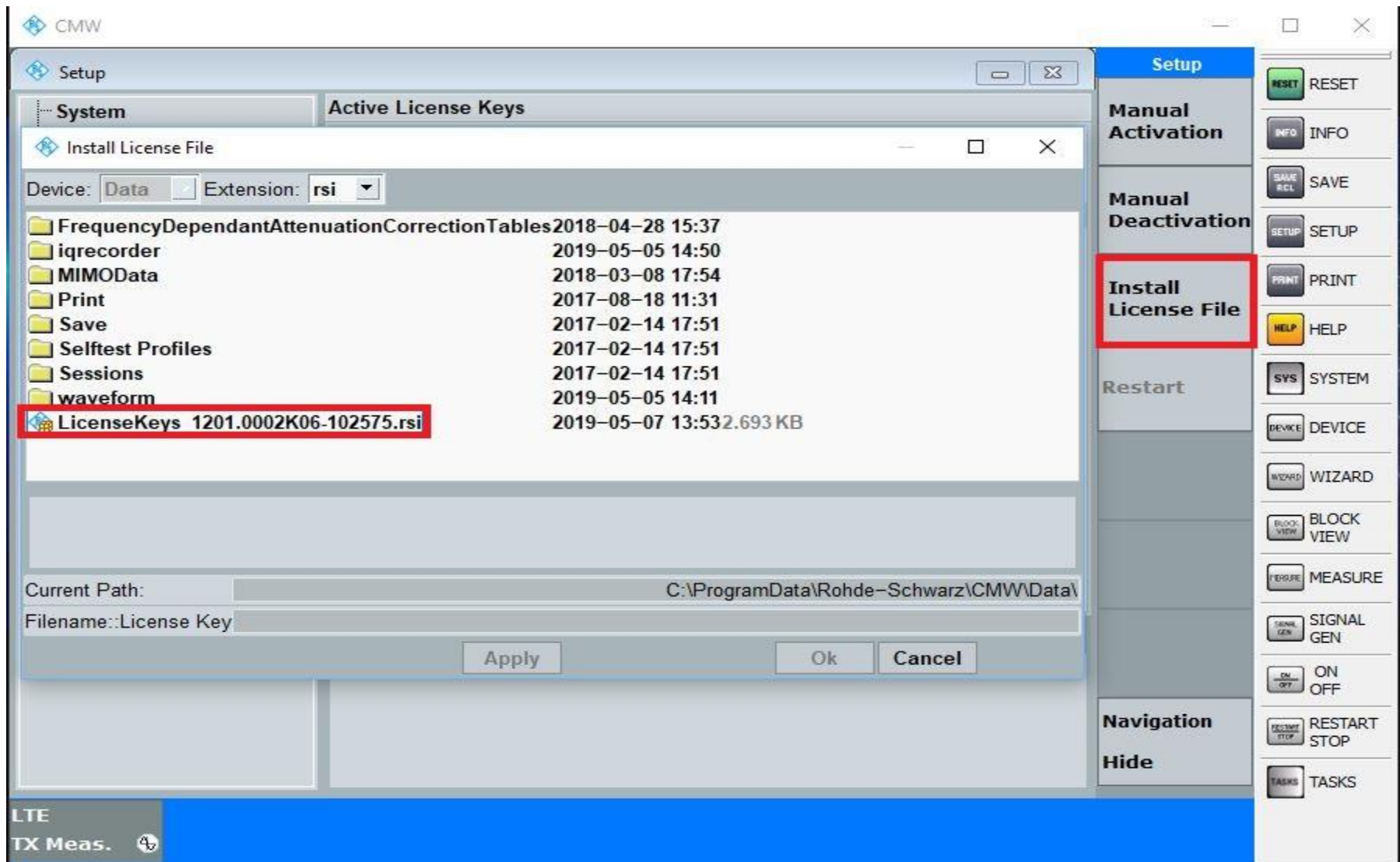


激活license - rsi文件

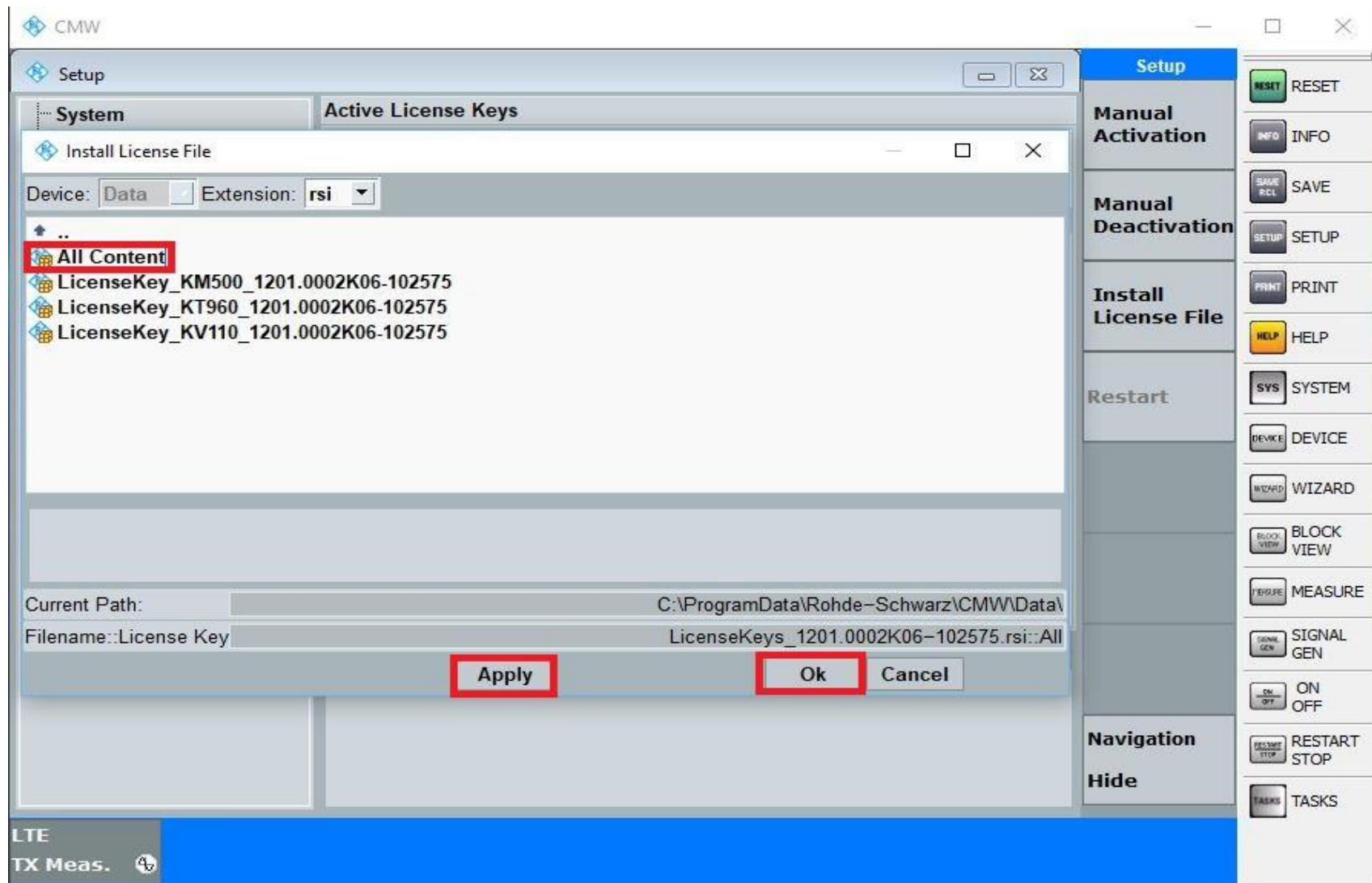
20030 (C:) OS > ProgramData > Rohde-Schwarz > CMW > Data

Name	Date modified	Type
FrequencyDependantAttenuationCorrectionTables	4/28/2018 3:37 PM	File folder
iqrecorder	5/5/2019 2:50 PM	File folder
MIMOData	3/8/2018 5:54 PM	File folder
Print	8/18/2017 11:31 AM	File folder
Save	2/14/2017 5:51 PM	File folder
Selftest Profiles	2/14/2017 5:51 PM	File folder
Sessions	2/14/2017 5:51 PM	File folder
waveform	5/5/2019 2:11 PM	File folder
LicenseKeys_1201.0002K06-102575.rsi	4/18/2019 8:21 PM	R&S Distribution

激活license - rsi文件



激活license - rsi文件



波形文件位置

» (C:) OS » ProgramData » Rohde-Schwarz » CMW » Data » waveform			
Name	Date modified	Type	Size
BROADCAST	4/2/2019 3:20 PM	File folder	
library7	11/13/2017 4:59 PM	File folder	
library11	3/27/2017 5:49 PM	File folder	
library12	2/24/2017 3:05 PM	File folder	
1packet_IQSaveFile_2.wv	12/6/2016 11:20 AM	WV File	977 KB
3GPPDefault.wv	4/11/2018 4:36 PM	WV File	901 KB
20M_5180_11AC_OneBurst.wv	3/22/2017 11:02 AM	WV File	61 KB
BLUETOOTH_11110000_DH5.wv	4/11/2018 4:36 PM	WV File	98 KB
BLUETOOTH_PRBS9_3-DH5.wv	4/11/2018 4:36 PM	WV File	98 KB
CW_ARB.wv	4/11/2018 4:36 PM	WV File	5 KB
edgedigmod.wv	4/11/2018 4:36 PM	WV File	880 KB
gmskdigmod.wv	4/11/2018 4:36 PM	WV File	938 KB
GSM_EDGE.wv	4/11/2018 4:36 PM	WV File	313 KB
GSM_GMSK.wv	4/11/2018 4:36 PM	WV File	626 KB
IQSaveFile.wv	11/16/2017 1:43 PM	WV File	128 KB
LRWPAN_2450MHz_OQPSK_127Bytes_PRBS9.wv	10/6/2015 2:25 PM	WV File	157 KB
LRWPAN_FirstRelease_17Sep2015.pdf	9/21/2015 2:45 PM	Adobe Acrobat D...	94 KB
LRWPAN_MultiSegment_1.wv	10/6/2015 2:26 PM	WV File	3,142 KB
MultipleTxTimeAlignmentA.wv	4/11/2018 4:36 PM	WV File	51 KB
MultipleTxTimeAlignmentB.wv	4/11/2018 4:36 PM	WV File	51 KB
Multitone20MHz.wv	4/11/2018 4:36 PM	WV File	1 KB
Multitone80MHz.wv	4/11/2018 4:36 PM	WV File	1 KB
NR_CP_SCS60kHz_BW100MHz_QPSK.WV	7/9/2018 2:54 PM	WV File	7,813 KB
PDSCH_standalone_ant1_mcs6_ru1_rep1.wv	2/8/2018 4:45 PM	WV File	4,801 KB
sin100.wv	4/11/2018 4:36 PM	WV File	1 KB
TM4CPICH.wv	4/11/2018 4:36 PM	WV File	451 KB

Pathloss

The screenshot displays the CMW software interface. On the left, a tree view under 'Setup' includes 'System', 'Remote', 'License Keys', 'SW/HW-Equipment', 'Maintenance', and 'Misc'. The 'Freq. Dep. Corr. Tab..' option under 'Misc' is highlighted with a red box. The main window is titled 'Frequency Dependent Attenuation Correction Tables' and contains 'Edit Tables' and 'Edit Mappings' sections. The 'Select Table' dropdown is set to 'Instrument 1'. On the right, a vertical toolbar contains buttons for 'RESET', 'INFO', 'SAVE', 'SETUP', 'PRINT', 'HELP', 'SYS', 'DEVICE', 'WIZARD', 'BLOCK VIEW', 'MEASURE', 'SIGNAL GEN', 'ON OFF', 'RESTART STOP', and 'TASKS'. The 'Add Table...' button and the 'SETUP' button are highlighted with red boxes.

Pathloss

The screenshot displays the Rohde & Schwarz CMW software interface. The main window is titled 'CMW' and shows a 'Setup' menu on the left with options like System, Remote, License Keys, SW/HW-Equipment, Maintenance, and Misc. The central area is titled 'Frequency Dependent Attenuation Co' and contains 'Edit Tables' and 'Edit Mappings' options. An 'Add Table' dialog box is open in the foreground, showing 'Instrument: Instrument 1' and 'Table Name: PATHLOSS_EXAMPLE' (highlighted with a red box). The dialog has 'Apply', 'Ok', and 'Cancel' buttons. On the right side, there is a 'Setup' panel with various icons and buttons, including 'RESET', 'INFO', 'SAVE', 'SETUP', 'PRINT', 'HELP', 'SYSTEM', 'DEVICE', 'WIZARD', 'BLOCK VIEW', 'MEASURE', 'SIGNAL GEN', 'ON OFF', 'RESTART STOP', and 'TASKS'.

Pathloss

The screenshot displays the CMW (Compact Multi-Wireless) software interface. On the left, a tree view shows the 'Setup' menu with options like 'System', 'Remote', 'License Keys', 'SW/HW-Equipment', 'Maintenance', and 'Misc'. The 'Misc' menu is expanded, showing 'Freq. Dep. Corr. Tab...'. The main window is titled 'Frequency Dependent Attenuation Correction Tables'. It contains a 'Select Table' button, which is highlighted with a red box. Below it, the 'Table Info' button is also highlighted with a red box. The 'Instrument 1' dropdown is set to 'PATHLOSS_EXAMPLE', and the 'Nr. Of Entries' is 0. An 'Add Entries' dialog box is open, showing the following settings:

Add Entries		
Nr. of Entries	5	
Frequencies		
Start with	2000.000000	MHz
Incremented by	100.000000	MHz
Attenuations		
Start with	10.00	dB
Incremented by	0.20	dB
Buttons: Apply, Ok, Cancel		

The 'Apply' button in the dialog is highlighted with a red box. On the right side of the interface, a 'Setup' panel contains various buttons: RESET, INFO, SAVE, SETUP, PRINT, HELP, SYSTEM, DEVICE, WIZARD, BLOCK VIEW, MEASURE, SIGNAL GEN, ON OFF, RESTART STOP, and TASKS. The 'Add Entries...' button in the 'Setup' panel is highlighted with a red box.

Pathloss

CMW

Setup

- System
 - Remote
 - License Keys
 - Active License Keys
 - Portable License Keys
 - Deactivation Keys
 - Inactive License Keys
 - SW/HW-Equipment
 - Maintenance
 - Selftest
 - Internal Path Corr.
 - Misc
 - Sync
 - Trigger
 - Freq. Dep. Corr. Tab...
 - Multi-CMW

Frequency Dependent Attenuation Correction Tables

Edit Tables

Select Table: Instrument 1 | PATHLOSS_EXAMPLE

Table Info: Nr. Of Entries: 5

Entries	Frequency [MHz]	Att. [dB]
[0]	2000.000000	10.00
[1]	2100.000000	10.20
[2]	2200.000000	10.40
[3]	2300.000000	10.60
[4]	2400.000000	10.80

Edit Mappings

Setup

- Add Table...
- Delete Table(s)
- Rename Table...
- Copy Table...
- Save Recall Changes...
- Add Entries...
- Delete Entries...
- Navigation
- Hide

Buttons: RESET, INFO, SAVE, SETUP, PRINT, HELP, SYSTEM, DEVICE, WIZARD, BLOCK VIEW, MEASURE, SIGNAL GEN, ON OFF, RESTART STOP, TASKS

Pathloss

CMW

Setup

- System
- Remote
 - License Keys
 - Active License Keys
 - Portable License Keys
 - Deactivation Keys
 - Inactive License Keys
 - SW/HW-Equipment
- Maintenance
 - Selftest
 - Internal Path Corr.
- Misc
 - Sync
 - Trigger
 - Freq. Dep. Corr. Tab...
 - Multi-CMW

Frequency Dependent Attenuation Correction Tables

Edit Tables

Select Table

Table Info

Instrument 1: PATHLOSS_EXAMPLE

Nr. Of Entries: 5

	Frequency [MHz]	Att. [dB]
[0]	2000.000000	10.00
[1]	2100.000000	10.20
[2]	2200.000000	10.40
[3]	2300.000000	10.60
[4]	2400.000000	10.80

Edit Mappings

Select Mapping: Act. / Deac.

Mapping Info

	Dir.	Conv.	Instruments	Table Name
RF1 OUT	TX	RF1	1	---
CMWS 1.1	RX	RF1	1	---
CMWS 1.1	TX	RF1	1	---
CMWS 1.2	RX	RF1	1	---
CMWS 1.2	TX	RF1	1	---
CMWS 1.3	RX	RF1	1	---
CMWS 1.3	TX	RF1	1	---
CMWS 1.4	RX	RF1	1	---
CMWS 1.4	TX	RF1	1	---
CMWS 1.5	RX	RF1	1	---
CMWS 1.5	TX	RF1	1	---
CMWS 1.6	RX	RF1	1	---
CMWS 1.6	TX	RF1	1	---
CMWS 1.7	RX	RF1	1	---

Setup

Add Table...

Delete Table(s)

Rename Table...

Copy Table...

Save Recall Changes...

Add Entries...

Delete Entries...

Navigation

Hide

RESET

INFO

SAVE

SETUP

PRINT

HELP

SYSTEM

DEVICE

WIZARD

BLOCK VIEW

MEASURE

SIGNAL GEN

ON OFF

RESTART STOP

TASKS

Pathloss

CMW Setup

- System
 - Remote
 - License Keys
 - Active License Keys
 - Portable License Keys
 - Deactivation Keys
 - Inactive License Keys
 - SW/HW-Equipment
 - Maintenance
 - Selftest
 - Internal Path Corr.
 - Misc
 - Sync
 - Trigger
 - Freq. Dep. Corr. Tab...
 - Multi-CMW

Frequency Dependent Attenuation Correction Tables

Edit Tables

Select Table: Instrument 1 | PATHLOSS_EXAMPLE

Table Info: Nr. Of Entries: 5

Activate/Deactivate Table

Select Connector

Box: Box 1

Instrument: Instrument 1

Direction: RX

Connector: CMWS 1.1

Converter: RF1

Assigned Table: PATHLOSS_EXAMPLE

Select Table

Instrument: Instrument 1

Table: PATHLOSS_EXAMPLE

Buttons: Apply, Ok, Cancel

					Att. [dB]
					10.00
					10.20
					10.40
					10.60
					10.80

Table(s)

Table Name: INST0/PATHLOSS_

Navigation

- Reset
- Info
- Save
- Setup
- Print
- Help
- System
- Device
- Wizard
- Block View
- Measure
- Signal Gen
- On/Off
- Restart/Stop
- Tasks

Pathloss

Frequency Dependent Attenuation Correction Tables

Edit Tables

Select Table: Instrument 1 ▾ PATHLOSS_EXAMPLE ▾

Table Info: Nr. Of Entries: 5

	Frequency [MHz]	Att. [dB]
[0]	2000.000000	10.00
[1]	2100.000000	10.20
[2]	2200.000000	10.40
[3]	2300.000000	10.60
[4]	2400.000000	10.80

Edit Mappings

Select Mapping: Act. / Deac.

Mapping Info	Dir.	Conv.	Instruments	Table Name
RF1 OUT	TX	RF1	1	---
CMWS 1.1	RX	RF1	1	INST0/PATHLOSS EXAMPLE
CMWS 1.1	TX	RF1	1	---
CMWS 1.2	RX	RF1	1	---
CMWS 1.2	TX	RF1	1	---
CMWS 1.3	RX	RF1	1	---
CMWS 1.3	TX	RF1	1	---
CMWS 1.4	RX	RF1	1	---
CMWS 1.4	TX	RF1	1	---
CMWS 1.5	RX	RF1	1	---
CMWS 1.5	TX	RF1	1	---
CMWS 1.6	RX	RF1	1	---
CMWS 1.6	TX	RF1	1	---
CMWS 1.7	RX	RF1	1	---
CMWS 1.7	TX	RF1	1	---
CMWS 1.8	RX	RF1	1	---
CMWS 1.8	TX	RF1	1	---

Pathloss

Edit Tables

- Select Table
- Table Info
- Entries
 - [0]
 - [1]
 - [2]
 - [3]
 - [4]

Edit Mappings

- Select Mapping
- Mapping Info
 - RF1 OUT
 - CMWS 1.1
 - CMWS 1.1
 - CMWS 1.2
 - CMWS 1.2
 - CMWS 1.3
 - CMWS 1.3
 - CMWS 1.4
 - CMWS 1.4
 - CMWS 1.5
 - CMWS 1.5
 - CMWS 1.6
 - CMWS 1.6
 - CMWS 1.7
 - CMWS 1.7
 - CMWS 1.8
 - CMWS 1.8

Frequency Dependent Attenuation Correction Tables

Instrument 1 PATHLOSS_EXAMPLE

Nr. Of Entries: 5

Frequency [MHz]	Att. [dB]
2000.000000	10.00
2100.000000	10.20
2200.000000	10.40
2300.000000	10.60
2400.000000	10.80

Act. / Deac.

Dir.	Conv.	Instruments
TX	RF1	1
RX	RF1	1
TX	RF1	1
RX	RF1	1
TX	RF1	1
RX	RF1	1
TX	RF1	1
RX	RF1	1
TX	RF1	1
RX	RF1	1
TX	RF1	1
RX	RF1	1
TX	RF1	1
RX	RF1	1
TX	RF1	1
RX	RF1	1
TX	RF1	1

Save/Recall Changes
✕

Save
Recall

Navigation

+ Add Table...

✕ Delete Table(s)

✎ Rename Table...

📄 Copy Table...

💾 Save Recall Changes...

+ Add Entries...

✕ Delete Entries...

Hide

Pathloss

0030 > (C:) OS > ProgramData > Rohde-Schwarz > CMW > Data > FrequencyDependantAttenuationCorrectionTables				
Name	Date modified	Type	Size	
inst5	8/29/2017 2:35 PM	File folder		
inst6	8/29/2017 2:35 PM	File folder		
inst7	8/29/2017 2:35 PM	File folder		
inst8	8/29/2017 2:35 PM	File folder		
inst9	8/29/2017 2:35 PM	File folder		
inst10	8/29/2017 2:35 PM	File folder		
inst11	8/29/2017 2:35 PM	File folder		
inst12	8/29/2017 2:35 PM	File folder		
inst13	8/29/2017 2:35 PM	File folder		
inst14	8/29/2017 2:35 PM	File folder		
inst15	8/29/2017 2:35 PM	File folder		
inst16	8/29/2017 2:35 PM	File folder		
inst17	8/29/2017 2:35 PM	File folder		
inst18	8/29/2017 2:35 PM	File folder		
inst19	8/29/2017 2:35 PM	File folder		
inst20	8/29/2017 2:35 PM	File folder		
inst21	8/29/2017 2:35 PM	File folder		
inst22	8/29/2017 2:35 PM	File folder		
inst23	8/29/2017 2:35 PM	File folder		
inst24	8/29/2017 2:35 PM	File folder		
inst25	8/29/2017 2:35 PM	File folder		
inst26	8/29/2017 2:35 PM	File folder		
inst27	8/29/2017 2:35 PM	File folder		
inst28	8/29/2017 2:35 PM	File folder		
inst29	8/29/2017 2:35 PM	File folder		
inst30	8/29/2017 2:35 PM	File folder		
inst31	8/29/2017 2:35 PM	File folder		
PATHLOSS_EXAMPLE.fda	6/6/2019 9:59 AM	FDA File	1 KB	

Pathloss

```
PATHLOSS_EXAMPLE.fda
1  <?xml version='1.0' standalone='no'?>
2  <!DOCTYPE swpl>
3  <swpl>
4  <FrequencyDependantExternalAttenuationCorrectionTable>
5  <properties>
6    <TableName type="bstr" value="PATHLOSS_EXAMPLE"/>
7    <TableSize type="i4" value="5"/>
8    <FrequencyNodes type="array|r8" count="5" value="2000000000;2100000000;2200000000;2300000000;2400000000"/>
9    <CorrectionValues type="array|r8" count="5" value="10;10.2;10.4;10.6;10.8"/>
10 </properties>
11 </FrequencyDependantExternalAttenuationCorrectionTable>
12 </swpl>
13
```

Pathloss

CMW

CMW 100 V 3.7.110 LTE Measurement - V3.7.55 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 195

EVM

Magnitude Error

Phase Error

Power Dynamic

Power Monitor

RB Allocation T

TX Measureme

TX Power

LTE Measurement - Multi Evaluation Configuration

Path: External Attenuation (Input)

Signal Type Uplink

Duplex Mode FDD

Scenario StandAlone (Non Signaling)

eMTC

RF Routing

External Attenuation (Input)

Carrier Aggregation Mode

Band - Channel

Frequency

Frequency Offset

Expected Nominal Power

User Margin

Mixer Level Offset

Measurement Control

Trigger

Limits

Generator Shortcut

Connector: 1.1 Converter: 1.RFRX1

0.00 dB FDCorr! TableName: PATHLOSS_EXAMPLE

Off

Frequency Dependent External Attenuation

	Frequency [MHz]	Att. [dB]	Frequency [MHz]	Att. [dB]
PATHLOSS_EX...				
Entry [0 - 1]	2000.000	10.00	2100.000	10.20
Entry [2 - 3]	2200.000	10.40	2300.000	10.60
Entry [4]	2400.000	10.80		

Repetition ... Stop Condition ... Statistic Count ... Channel Bandwidth ... Measurement Subframes ... Assign Views Config ...

LTE

Multi Evaluation OFF

RF Settings

Trigger

Display

RESET

INFO

SAVE

SETUP

PRINT

HELP

SYSTEM

DEVICE

WIZARD

BLOCK VIEW

MEASURE

SIGNAL GEN

ON OFF

RESTART STOP

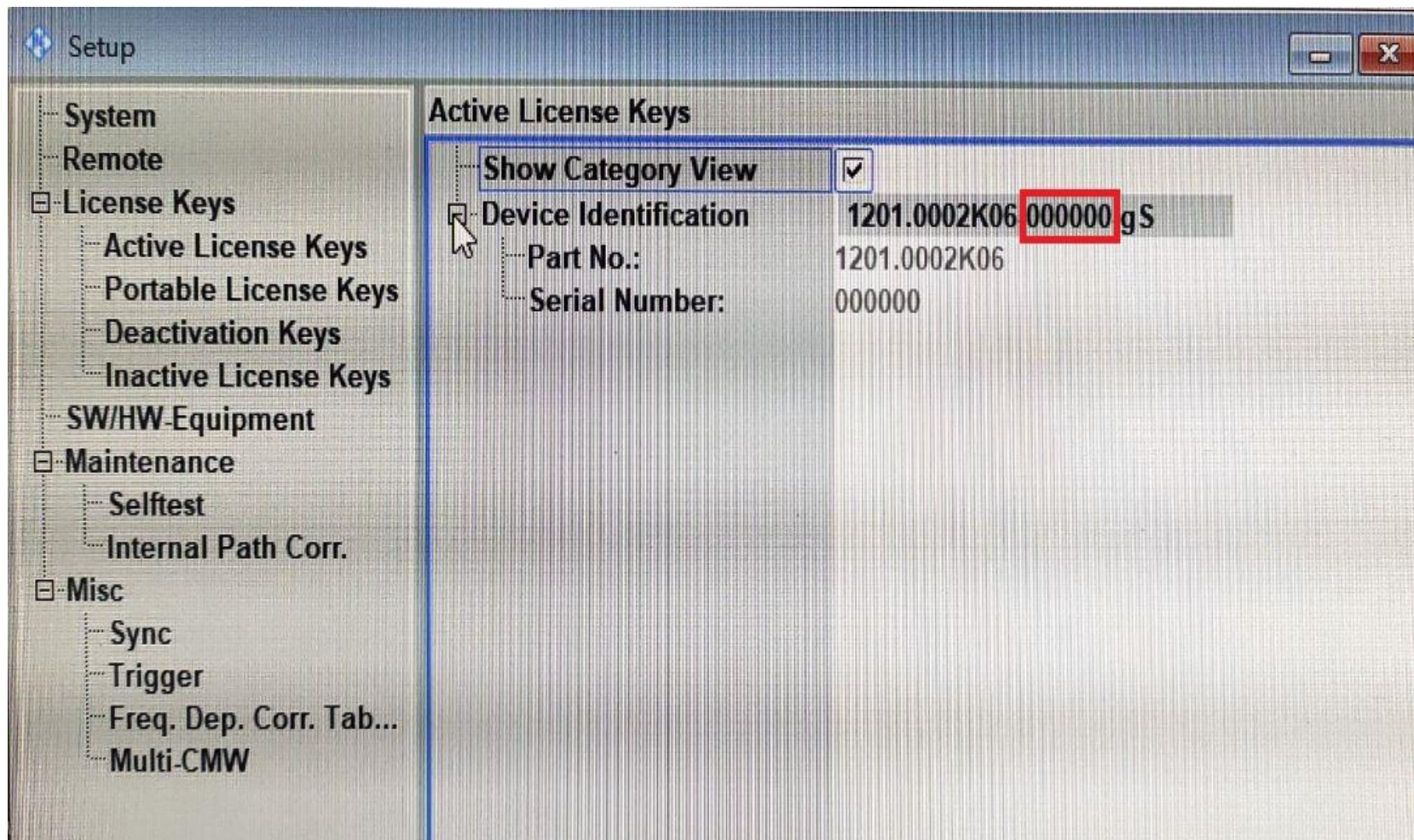
TASKS

Help文档位置

> (C:) OS > Program Files > Rohde-Schwarz > CMW > 3.7 > Docu				
<input type="checkbox"/> Name	Date modified	Type	Size	
<input checked="" type="checkbox"/> OSA	4/2/2019 9:21 AM	File folder		
Bluetooth Measurements.chm	7/16/2018 1:25 PM	Compiled HTML ...	3,418 KB	
Bluetooth Measurements-topic-ids.xml	7/16/2018 1:25 PM	XML File	69 KB	
Default.chm	10/22/2018 4:27 PM	Compiled HTML ...	3,994 KB	
Default-topic-ids.xml	10/22/2018 4:27 PM	XML File	18 KB	
GPRF Generator.chm	8/31/2018 12:04 PM	Compiled HTML ...	1,441 KB	
GPRF Generator-topic-ids.xml	8/31/2018 12:04 PM	XML File	11 KB	
GPRF Measurements.chm	8/31/2018 12:04 PM	Compiled HTML ...	3,277 KB	
GPRF Measurements-topic-ids.xml	8/31/2018 12:04 PM	XML File	71 KB	
GSM Measurements.chm	10/2/2017 9:34 AM	Compiled HTML ...	2,721 KB	
GSM Measurements-topic-ids.xml	10/2/2017 9:34 AM	XML File	23 KB	
LRWPAN Measurements.chm	1/3/2017 11:43 AM	Compiled HTML ...	919 KB	
LRWPAN Measurements-topic-ids.xml	1/3/2017 11:43 AM	XML File	13 KB	
LTE eNodeB Measurements.chm	6/12/2018 10:34 AM	Compiled HTML ...	1,635 KB	
LTE eNodeB Measurements-topic-ids....	6/12/2018 10:34 AM	XML File	18 KB	
LTE Measurements.chm	7/9/2018 12:48 PM	Compiled HTML ...	4,449 KB	
LTE Measurements-topic-ids.xml	7/9/2018 12:48 PM	XML File	51 KB	
NBIoT Measurements.chm	7/20/2017 9:57 AM	Compiled HTML ...	1,784 KB	
NBIoT Measurements-topic-ids.xml	7/20/2017 9:57 AM	XML File	23 KB	
NRsub Measurements.chm	1/17/2019 4:43 PM	Compiled HTML ...	1,625 KB	
NRsub Measurements-topic-ids.xml	1/17/2019 4:43 PM	XML File	26 KB	
TDSCDMA Measurements.chm	7/4/2017 9:19 AM	Compiled HTML ...	2,114 KB	
TDSCDMA Measurements-topic-ids.xml	7/4/2017 9:19 AM	XML File	45 KB	
WCDMA Measurements.chm	1/9/2018 11:32 AM	Compiled HTML ...	4,473 KB	
WCDMA Measurements-topic-ids.xml	1/9/2018 11:32 AM	XML File	85 KB	
WLAN Measurements.chm	4/11/2018 3:09 PM	Compiled HTML ...	2,997 KB	
WLAN Measurements-topic-ids.xml	4/11/2018 3:09 PM	XML File	42 KB	

异常处理

需要重启固件, Firmware Update



Firmware Update

The screenshot displays the CMW software interface. The main window is titled "Startup" and shows a progress bar at 19%. The "Options" pane on the left lists various configuration categories: Hardware Configuration, Software Licenses (expanded), Universal, Bundles, Protocol Test, Tools, RF Test Signaling, RF Test Measurements, RF Test Generator, RF Test Fading, Application Test, Installed Software, and Operating System. The "Detail/Progress information" pane at the bottom shows the following steps: Connecting MassMemory, Connecting Print, Connecting Setup, and Connecting iq_setup. On the right side, a vertical toolbar contains several buttons: RESET, INFO, SAVE, SETUP, PRINT, HELP, SYS, DEVICE, WIZARD, BLOCK VIEW, MEASURE, SIGNAL GEN, ON OFF, RESTART STOP, and TASKS. The "Firmware Update" button is highlighted with a red rectangle.

CMW

Startup

DeviceName - Version 19 %

Options

- Hardware Configuration
- Software Licenses
 - Universal
 - Bundles
 - Protocol Test
 - Tools
 - RF Test Signaling
 - RF Test Measurements
 - RF Test Generator
 - RF Test Fading
 - Application Test
- Installed Software
- Operating System

Detail/Progress information

- Connecting MassMemory
- Connecting Print
- Connecting Setup
- Connecting iq_setup

Startup

Firmware Update

Factory Default

Continue

Wait

Select Software

Progress

Detailed

Abort

RESET

INFO

SAVE

SETUP

PRINT

HELP

SYS

DEVICE

WIZARD

BLOCK VIEW

MEASURE

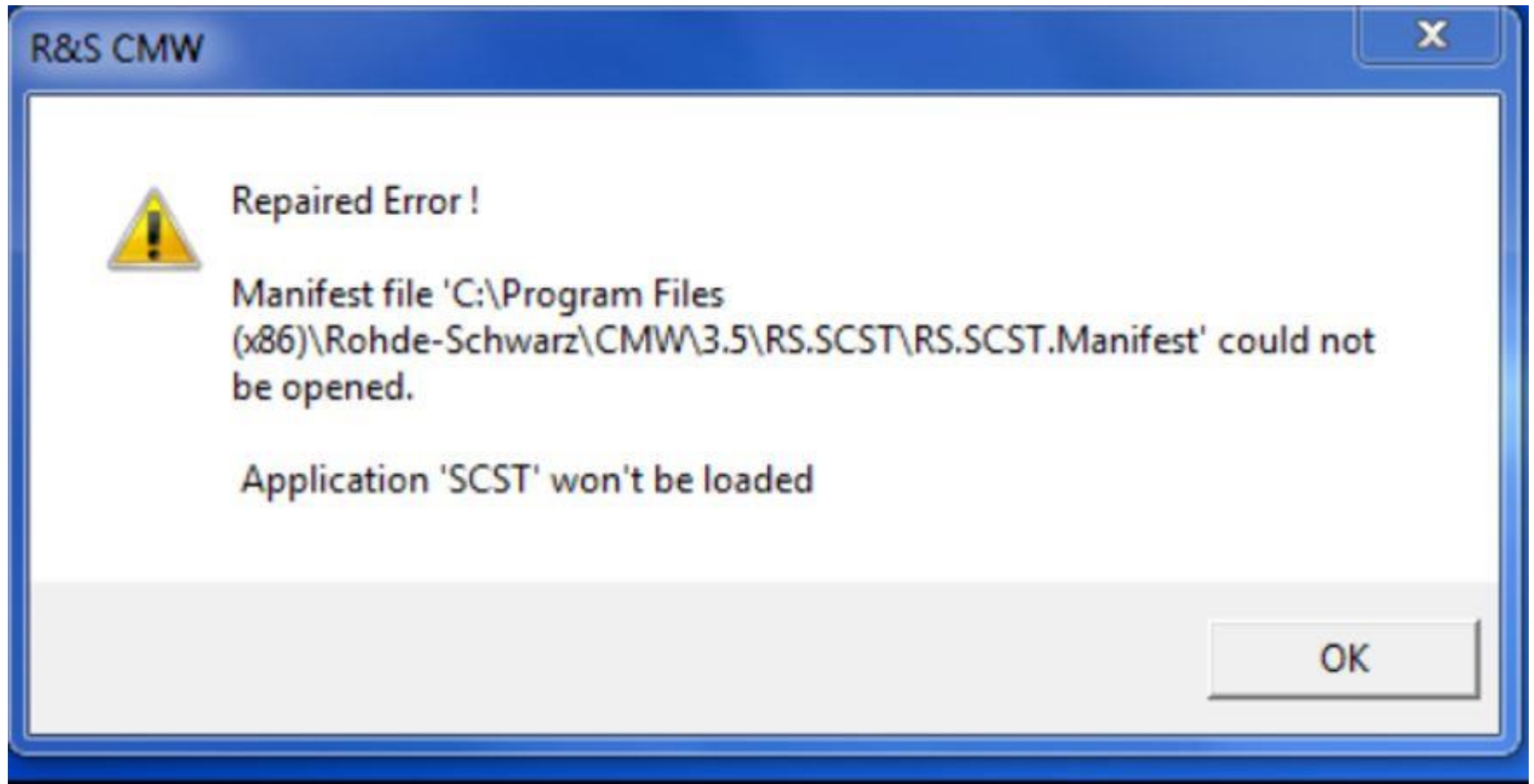
SIGNAL GEN

ON OFF

RESTART STOP

TASKS

异常处理



删除C:\Users\<User>\AppData\Local\VirtualStore\Program Files (x86)\Rohde-Schwarz\CMW\3.7\ directory