# R&S®TSMA6 Autonomous Mobile Network Scanner Supplement Resizing Backup Partition



# 4900905302



#### Contents

| 1 | Affected Devices             | 2 |
|---|------------------------------|---|
| 2 | Problem Description          | 2 |
| 3 | Verify Backup Partition Size | 3 |
| 4 | Resize Backup Partition Size | 4 |

### 1 Affected Devices

This supplement is only relevant for R&S TSMA6 devices (4900.8005K02) with a serial number < 101146.

The supplement has to be applied only, if the creation of a user backup from the R&S TSMA6 web GUI is not possible (see Chapter 2, "Problem Description", on page 2)..

## 2 Problem Description

The creation of a backup is not possible, because the "Backup" button is not displayed. The root cause for a missing "Backup" button is most probably not enough disk space in the backup partition.

| ROHDE&SCHWAF  |  |
|---------------|--|
| T SMA6        | Backup   |
| Home          |  |
| Configuration |  |
| System        |  |
| Connectivity  | Available Backup                                     |
| File Transfer | Date Factory default backup Mon Nov 26 20:17:16 2018 |
| Options       |  |
| Update        | Backup TSMA System 🥥                                 |
| Backup        | Backup TSMA Backup                                   |
| Restart       |  |
| Help          |  |
| OSA           |  |
|               |  |
|               | Status   |
|               | No error   |
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#### 3 Verify Backup Partition Size

To verify the size of the backup partition, proceed as follows

1. Open the Disk Management.

Use <*Windows*> + <*R*> to open "Run", type diskmgmt.msc in the empty box and click "OK".

| 🖅 Run         |  | × |
|---------------|--|---|
|               | Type the name of a program, folder, document, or Internet<br>resource, and Windows will open it for you. |   |
| <u>O</u> pen: | diskmgmt.msc ~   |   |
|               | OK Cancel <u>B</u> rowse   | ] |

2. Verify partition size of "Backup Image".

| File Action View  |  |                                      |   |                                |   |              | -  |                  | $\times$ |
|---|--|--------------------------------------|---|--------------------------------|---|--------------|--|------------------|----------|
|   | Help   |                                      |   |                                |   |              |  |                  |          |
| V V I I I I I I I   | j 🗩 🖾  |                                      |   |                                |   |              |  |                  |          |
| Volume  | Layout   | Туре                                 | File System   | Status                         | Capacity  | Free Spa     | % Free                                     |                  |          |
|   | Simple   | Basic                                |   | Healthy (R                     | . 500 MB  | 500 MB       | 100 %                                      |                  |          |
|   | Simple   | Basic                                |   | Healthy (E                     | 100 MB  | 100 MB       | 100 %                                      |                  |          |
| — (E;)  | Simple   | Basic                                | FAT32   | Healthy (P.,                   | . 6.90 GB                                       | 6.90 GB      | 100 %                                      |                  |          |
| 🕶 Backup  | Simple   | Basic                                | NTFS  | Healthy (P                     | . 10.95 GB                                      | 10.87 GB     | 99 %                                       |                  |          |
| 🚥 Data (D:)   | Simple   | Basic                                | NTFS  | Healthy (P                     | . 139.36 GB                                     | 139.25 GB    | 100 %                                      |                  |          |
| OperatingSystem (   | . Simple   | Basic                                | NTFS  | Healthy (B                     | . 80.00 GB                                      | 48.82 GB     | 61 %                                       |                  |          |
| Dick 0  |  |                                      |   |                                |   |              |  |                  | _        |
| Basic<br>230.90 GB 50   | о мв   | 100 MB                               | OperatingSyste<br>80.00 GB NTFS                     | :m (C:)                        | Data (D:)<br>139.36 GB NTFS                     |              | Backup<br>10.95 GB N                       | TFS              |          |
| Basic<br>230.90 GB<br>Online  | 0 MB<br>ealthy (Reco   | 100 MB<br>Healthy (l                 | OperatingSyste<br>80.00 GB NTFS<br>Healthy (Boot, C | e <b>m (C:)</b><br>Crash Dump, | Data (D:)<br>139.36 GB NTFS<br>Healthy (Primary | Partition)   | <b>Backup</b><br>10.95 GB N<br>Healthy (Pi | TFS<br>rimary Pa | rtit     |
| Disk 0     Basic     230.90 GB     Conline     Disk 1     Removable     G.91 GB     Online     He | 0 MB<br>ealthy (Reco<br>E:)<br>20 GB FAT32<br>ealthy (Primar | 100 MB<br>Healthy (I<br>/ Partition) | OperatingSyste<br>80.00 GB NTFS<br>Healthy (Boot, C | e <b>m (C:)</b><br>Crash Dump, | Data (D:)<br>139.36 GB NTFS<br>Healthy (Primary | / Partition) | Backup<br>10.95 GB N<br>Healthy (Pi        | TFS<br>rimary Pa | rtit     |

 If the capacity of the "Backup Image" ≤ 11 GB, proceed with Chapter 4, "Resize Backup Partition Size", on page 4.

If the capacity of the "Backup Image"  $\geq$  80 GB, no further action required.

#### **4** Resize Backup Partition Size

To resize the backup partition, proceed as follows.

- 1. Bring the R&S TSMA6 into "PC Mode" and close any open program.
- A third party tool is used to resize partitions. Navigate to the AOMEI Hompage and download the "Partition Assistant Standard Edition". https://www.disk-partition.com/download-home.html
- 3. Copy the setup.exe file into a temporary folder of the R&S TSMA6.
- 4. Click setup.exe and install AOMEI software with its default path.
- 5. Launch the "AOMEI Partition Assistant" from the desktop icon.



 Select the partition "D:Data" on Disk 1. With a right-click open the context menu and choose "Resize Partition".

| 🏟 AOMEI Partition Assistant Standar                                 | rd Edition - Safely Partit     |                        |                                  |                               |                                |                               |                         | $C \equiv \Box = \Box$                                    |
|---|--------------------------------|------------------------|----------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------|---|
|   | Redo Migrate OS                | Wipe Disk Alloca       | te Space Safely Partition        | Free Backup                   | System Clean                   | C+<br>Register                |                         | 습 S<br>Upgrede Tools                                      |
| Wizards   | Partition     Disk 1           | File Sy                | capacity                         | Used Space                    | Free Space                     | Flag                          | Status                  | BE  |
| Partition Recovery Wizard  Make Bootable Media  All Tools           | *: Recovery<br>*: SYSTEM<br>*: | NTFS<br>FAT32<br>Other | 500.00MB<br>100.00MB<br>128.00MB | 411.58MB<br>29.04MB<br>0.00KB | 88.42MB<br>70.96MB<br>128.00MB | GPT,WRE<br>GPT,EFI<br>GPT,MSR | None<br>System<br>None  |   |
| Partition Operations  | C: OperatingSystem             | NTES                   | 80.00GB                          | 31.13GB                       | 48.87GB                        | GPT<br>GPT                    | Boot                    |   |
| <ul> <li>Resize/Move Partition</li> <li>Merge Partitions</li> </ul> | *: Backup                      | NTFS                   | 10.95GB                          | 86.14MB                       | 10.87GB                        | GPT                           | Hidde                   | Resize Partition  |
| Split Partition   | E:                             | vable)<br>FAT32        | 6.90GB                           | 4.19MB                        | 6.90GB                         | Primary                       | Nor 🔏                   | Merge Partitions  |
| Create Partition  |                                |                        |                                  |                               |                                |                               | 63<br>(4)<br>(4)<br>(4) | Allocate Free Space<br>Copy Partition<br>Create Partition |
| Format Partition     Change Label     Wine Partition                | Basic GPT                      | *: *: *:<br>50 10 12   | C: OperatingSystem               |                               | D: Data                        |                               |                         | Delete Partition  |
| Partition Backup     Change Drive Letter                            | 231.02GB                       | E:                     |                                  |                               | 20100001113                    |                               | 4                       | Wipe Partition Partition Backup                           |
| Hide Partition  | Basic MBR<br>6.91GB            | 6.90GB FAT32           |                                  |                               |                                |                               | 0                       | Advanced  |

- 7. In the "Move and Resize Partition" dialog, click on the right slider, keep the mouse button pressed and move it in the left direction to shrink the "Data" partition. The size of shrinking depends on our assembled hardware option:
  - TSMA6-B1T (256 GB)

| Move and Resize Partition  | ?  | $\times$ |
|--|----|----------|
| Enter the new size and specify the new location of the partition.  |    |          |
| Size and Position          D:Data         70.24GB NTFS         Unallocated space before:       0.00KB         Partition size:       70.24GB         Unallocated space after:       70.00GB |    |          |
| Advanced>>   | ŊΚ |          |

- "Unallocated space after": 70.00 GB
- "Partition size": 70.24 GB
- TSMA6-B1S (1 TB)

| Move and Resize Partition  | 0          |  |
|--|------------|--|
| Enter the new size and specify the new location of the partition.                                |            |  |
| Size and Position  | <b>)</b>   |  |
| Unallocated space before: 0.00KB<br>Partition size: 792.18GB<br>Unallocated space after: 70.02GB |            |  |
| <u>A</u> dvanced>>   | <u>O</u> K |  |

- "Unallocated space after": 70.02 GB
- "Partition size": 792.18 GB

Confirm with "OK".

8. Select the "Backup" partition and with the right mouse click choose "Resize Partition".

| aon 🗧       | IEI Partition As   |        |     |                    |                      |                                |                    |             |                                       |        |                     |                  |
|-------------|--------------------|--------|-----|--------------------|----------------------|--------------------------------|--------------------|-------------|---------------------------------------|--------|---------------------|------------------|
| V<br>Arrely | ×.                 |        |     |                    | Wine Dirk Allor      | 🕒   Safa                       |                    | Eres Barban |                                       | 2      |                     |                  |
| Witten      | te .               | Criss  | ^   | Partition          | File System          | Capacity                       | Used Space         | Free Space  | Flag                                  | Status |                     |                  |
| A M         | igrate OS to SSD   |        | 1   | 💻 Disk 1 (GPT)     |                      |                                |                    |             |                                       |        |                     |                  |
| 🖀 Pa        | artition Recovery  | Wizard |     | *: Recovery        | NTES                 | 500.00MB                       | 411.58MB           | 88.42MB     | GPT, WRE                              | None   |                     |                  |
| 🐣 м         | ake Bootable Med   | la     |     | *: SYSTEM          | FAT32                | 100.00MB                       | 29.00MB            | 71.00MB     | GPT,EFI                               | System |                     |                  |
| AI AI       | Tools              |        | × . | ÷.                 | Other                | 128.00MB                       | 0.00KB             | 128.00MB    | GPT,MSR                               | None   |                     |                  |
|             | One-stiens         |        |     | C: OperatingSystem | NTFS                 | 80.00GB                        | 31.10GB            | 48.90G8     | GPT                                   | Boot   |                     |                  |
| 4 p.        | erize Move Darkk   | ~      | - 1 | D: Data            | NTFS                 | 792.18GB                       | 202.76MB           | 791.98G8    | GPT                                   | None   |                     |                  |
|             | alt Partition      |        |     |                    | Unallocated          | 70.02GB                        | 0.00KB             | 70.02GB     | GPT                                   | None   |                     |                  |
| C           | locate Free Space  |        |     | -: Backup          | NIPS                 | 10.9508                        | 00.1440            | 10.8708     | GPT                                   | Hoden  | Resize Partition    |                  |
| 6 G         | opy Partition      |        |     | E Disk 2 (Remov    |                      |                                |                    |             |                                       |        | Moye Partition      |                  |
| <b>8</b> 0  | reate Partition    |        |     | E:                 | FAT32                | 6.90GB                         | 4.13MB             | 6.90GB      | Primary                               | None   | Merge Partitions    |                  |
| in De       | elete Partition    |        |     | Disk 3 (Remov      |                      |                                |                    |             |                                       |        | Split Partition     |                  |
| Fc          | ormat Partition    |        |     | E: CODEATR         | EAT22                | 59.6308                        | 10 7909            | 20 9409     | Drimary                               | Hidden | Aljocate Free Space |                  |
| o d         | hange Label        |        |     | T. CORDAN          | 10106                | 59.0200                        | 19.7000            | 55.0 465    | · · · · · · · · · · · · · · · · · · · |        | Copy Partition      |                  |
| ⊥ w         | ipe Partition      |        |     |                    |                      |                                |                    |             |                                       |        | Create Partition    |                  |
| C Pa        | artition Backup    |        |     | E Disk 1           |                      |                                |                    |             |                                       | i      | Delete Partition    |                  |
| w Ur        | nhide Partition    |        |     | Basic GPT          | *: *: *:<br>50 10 12 | C: OperatingS.<br>80.00GB NTFS | D: Data<br>792.180 | B NTFS      |                                       | 8      | Eormat Partition    | *:<br>70.02GB Ur |
| <u>a</u> a  | heck Partition     |        |     | 933.07GB           |                      |                                |                    |             |                                       |        | Change Label        |                  |
| 😗 d         | hange Serial Numb  | ber    |     | Disk 2             |                      |                                |                    |             |                                       |        | Wipe Partition      |                  |
| E Pa        | artition Alignment |        |     | Basic MBR          | E:<br>6.90GR FAT32   |                                |                    |             |                                       |        | Partition Backup    |                  |
| O Pr        | operties           |        |     | 0.91GB             |                      |                                |                    |             |                                       |        | Advanced +          |                  |
|             |                    |        | ~   |                    | 1                    |                                |                    | _           |                                       | (      | Properties          |                  |

9. In the "Move and Resize Partition" dialog, click on the left slider and keep the mouse button pressed to move it in the left direction to enlarge the "Backup" partition.

| Move and Re | size Partition  |  |                          | ? |  |
|-------------|---|--|--------------------------|---|--|
| <b>5</b> En | ter the new size and specify the new location of  | <sup>-</sup> the partition.                          |                          |   |  |
| Size and    | Position ————   |  | *:Backup<br>10.95GB NTFS |   |  |
|             | Unallocated space before:<br>Partition <u>si</u> ze:<br>Unallocated space a <u>f</u> ter: | 70.02GB     ↓       10.95GB     ↓       0.00KB     ↓ |                          |   |  |
| Advanced    | >>  |  | <u>0</u>                 | ĸ |  |

The resized "Backup" partition should be extended to the following values:

- Unallocated space before: 0.00 KB
- Partition size: 80.97 GB

10. Check the partition sizes before you confirm.

• TSMA6-B1T (256 GB)

| ~<br>Apply | Discard Un            | D C | lo Migrate OS      | Wipe Disk      |           | Space Safely Partition             | Free Backup | System Clean | Register |                           | ①<br>Upgrade |   |
|------------|-----------------------|-----|--------------------|----------------|-----------|------------------------------------|-------------|--------------|----------|---------------------------|--------------|---|
| Nizards    |                       | ^   | Partition          |                | File Syst | em Capacity                        | Used Space  | Free Space   | Flag     | Status                    |              |   |
| 📫 Mig      | rate OS to SSD        |     | E Disk 1           |                |           |                                    |             |              |          |                           |              |   |
| 拾 Par      | tition Recovery Wizar | rd  | *: Recovery        |                | NTES      | 500.00MB                           | 411.58MB    | 88.42MB      | GPT,WRE  | None                      |              |   |
| 🐣 Mai      | ke Bootable Media     |     | *: SYSTEM          |                | FAT32     | 100.00MB                           | 29.04MB     | 70.96MB      | GPT,EFI  | System                    |              |   |
| All        | Tools                 |     | *:                 |                | Other     | 128.00MB                           | 0.00KB      | 128.00MB     | GPT,MSR  | None                      |              |   |
| Partitio   | n Operations          |     | C: OperatingSystem |                | NTES      | 80.00GB                            | 31.12GB     | 48.88GB      | GPT      | Boot                      |              |   |
| C Der      | rize Move Partition   |     | D: Data            |                | NTES      | 69.56GB                            | 108.17MB    | 69.46GB      | GPT      | None                      |              |   |
|            | it Dartition          |     | *: Backup          |                | NTFS      | 80.75GB                            | 86.14MB     | 80.66GB      | GPT      | Hidden                    |              |   |
| 😘 Spil     | py Partition          |     | 💻 Disk 2 (Remo     | vable)         |           |                                    |             |              |          |                           |              |   |
| S Cre      | ate Partition         |     | E:                 |                | FAT32     | 6.90GB                             | 4.19MB      | 6.90GB       | Primary  | None                      |              |   |
| 💼 Del      | ete Partition         |     |                    |                |           |                                    |             |              |          |                           |              |   |
| S For      | mat Partition         |     |                    |                |           |                                    |             |              |          |                           |              |   |
| Cha        | ange Label            |     |                    |                |           |                                    |             |              |          |                           |              |   |
| 📥 Wip      | e Partition           |     | Disk 1             |                |           |                                    |             |              |          |                           |              | _ |
| 🔇 Par      | tition Backup         |     | Basic GPT          | *: *:<br>50 10 | 12        | C: OperatingSystem<br>80.00GB NTFS | <b>(</b>    | 69.56GB NTFS |          | *: Backup<br>80.75GB NTFS |              |   |
| 🔗 Cha      | ange Drive Letter     |     | 251.0268           |                |           |                                    |             |              |          |                           | _            |   |
| 🕤 Cor      | nvert to NTFS         |     | Disk 2             |                |           |                                    |             |              |          |                           |              | _ |
| 😽 Hid      | e Partition           |     | Basic MBR          | E:             |           |                                    |             |              |          |                           |              |   |
| 🖸 Set      | Active Partition      |     | 6.91GB             | 0.0000 PAT 32  |           |                                    |             |              |          |                           |              |   |
| ct Cor     | overt to Logical      |     |                    |                |           |                                    |             |              |          |                           |              |   |

• TSMA6-B1S (1 TB)

| AOMEI Partition As              |          |     |                       |                 |                |                |             |              |            |
|---------------------------------|----------|-----|-----------------------|-----------------|----------------|----------------|-------------|--------------|------------|
| $\langle \cdot \rangle \otimes$ |          |     |                       |                 |                |                |             | 4            |            |
| Apply Discard                   | Undo     | Rec | o Migrate OS          | Wipe Disk Alloc | ate Space 🕴 Sa | fely Partition | Free Backup | System Clear | n Register |
| Wizards                         |          |     | Partition             | File System     | Capacity       | Used Space     | Free Space  | Flag         | Status     |
| Aligrate OS to SSD              |          |     | 📑 Disk 1 (GPT)        | )               |                |                |             |              |            |
| 🏯 Partition Recovery            | Wizard   |     | *: Recovery           | NTES            | 500.00MB       | 411.58MB       | 88.42MB     | GPT, WRE     | None       |
| 🙈 Make Bootable Med             | dia      |     | *: SYSTEM             | FAT32           | 100.00MB       | 29.00MB        | 71.00MB     | GPT,EFI      | System     |
| All Tools                       |          |     | -                     | Other           | 128.00MB       | 0.00KB         | 128.00MB    | GPT,MSR      | None       |
| Disk on a Prove                 |          |     | C: OperatingSyster    | n NTFS          | 80.00GB        | 31.10G8        | 48.90G8     | GPT          | Boot       |
| Disk Operations                 |          |     | D: Data               | NTES            | 792.18GB       | 202.76MB       | 791.98GB    | GPT          | None       |
| Lisk Copy                       |          |     | *: Backup             | NTES            | 80.97GB        | 86.14MB        | 80.89GB     | GPT          | Hidden     |
| Quick Partition                 |          |     | 💻 Disk 2 (Rem         | iov             |                |                |             |              |            |
| 🛓 Wipe Hard Drive               |          |     | E)                    | EAT22           | 6 0008         | 4 1200         | 6 0008      | Drimmor      | None       |
| Disk Surface Test               |          |     | L.                    | 18132           | 0.9030         | 4,1340         | 0.3030      | Printery     | None       |
| Rebuild MBR                     |          |     | 🛑 Disk 3 (Rem         | IOV             |                |                |             |              |            |
| Delete all Partitions           | 5        |     | F: CORSAIR            | FAT32           | 59.62GB        | 19.78G8        | 39.84GB     | Primary      | Hidden     |
| 🔁 Convert to MBR                |          |     |                       |                 |                |                |             |              |            |
| Disk Backup                     |          |     |                       |                 |                |                |             |              |            |
| 🚖 SSD Secure Erase              |          |     |                       |                 |                |                |             |              |            |
| <ol> <li>Properties</li> </ol>  |          |     | 📕 Disk 1              |                 | C. On and in   |                | -           |              |            |
| Rending Operations              |          |     | Basic GPT<br>953.87GB | 50 10 12        | 80.00GB NTFS   | 792.18         | IGB NTES    |              |            |
| 1 Desize (Da) en dek 1          |          |     |                       |                 |                | _              | _           |              |            |
| 1. Kesze (D.) or usk 1          |          |     | Disk 2                |                 |                |                |             |              |            |
| 2.Move and Resize (11) 0        | ar usk 1 |     | Basic MBR             | E:              |                |                |             |              |            |
|                                 |          |     | 6.91GB                | 0.9000 PA132    |                |                |             |              |            |
|                                 |          |     |                       |                 |                |                |             |              |            |

- 11. Press "Apply" to start the partition resizing.
- 12. In the following dialog, press "Proceed".

| ending Operations   |   | 0       |
|---|---|---------|
| The program is ready t  | o proceed. Please confirm the following operations. |         |
|   |   | ^       |
| Resize Partition (Reboot  | required)   |         |
| Hard Disk:  | 1   |         |
| Drive Letter:   | D:  |         |
| File System:  | NTFS  |         |
| Partition Label:  | Data  |         |
| Size:   | 862.21GB => 792.18GB                                |         |
| Cluster Size:   | 4KB   |         |
| Move and Resize Partitio<br>Hard Disk:<br>Drive Letter:<br>File System:<br>Partition Label: | 1 (Reboot required)<br>1<br>*:<br>NTFS<br>Backup    |         |
| Size:   | 10.95GB => 80.97GB                                  |         |
| Please dick the Proceed butto   | to start.   |         |
| ✓ Check partitions before exec  | ution   | Proceed |

13. If the program detects any partition used by other applications, confirm with "Yes".



14. Press again "Proceed" and confirm with "Yes".



15. The process if finished successfully when the following dialog is displayed.

| Operation Progress |   |  |        |
|--------------------|---|--|--------|
| Partitio           | Operation 2 of 2<br>Move and Resize Partition<br>Hard Disk:<br>Drive Letter:<br>File System:<br>Partition Label:<br>Size:<br>Start Sector:<br>n Assistant<br>Congratulation! All operations | 1<br>*:<br>NTFS<br>Backup<br>10.95GB => 80.97GB<br>1977442304 => 1830590688<br>have been completed successfully. | ×      |
| A.                 | Shut down the computer after con  | <br>npleting all operations.   | 100%   |
| 0                  |   |  | Cancel |

- 16. Confirm with "OK".
- 17. Restart the R&S TSMA6. The "Backup" button should now be available in the web-GUI.
- Navigate to "Start" > "Settings" > "System" > "Apps & features" to uninstall "AOMEI Partition Assistant" from the R&S TSMA6.

| ÷   | Settings                |   |
|-----|-------------------------|---|
| ٢   | Home                    | Apps & features   |
| Fi  | ind a setting $ ho$     | Manage optional features  |
| Sys | tem                     | Search, sort, and filter by drive. If you would like to uninstall or<br>move an app, select it from the list. |
| Ģ   | Display                 | Search this list $\begin{subarray}{c} \end{subarray} \end{subarray}$  |
| E   | Apps & features         | Sort by name  |
| 15  | Default apps            | Show content from all drives $\checkmark$   |
| ņ   | Notifications & actions | AOMEI Partition Assistant Standard Edition 8.0 116 MB<br>AOMEI Technology Co., Ltd. 2/28/2019                 |
| Ċ   | Power & sleep           | Modify Uninstall  |
| _   | Storage                 | Copy Microsoft .NET Framework 4.6.2 59.1 MB<br>Rohde & Schwarz 2/28/2019                                      |
| 1   | Offline maps            | Intel(R) Network Connections 23.1.100.0 50.1 MB   |
| ĽЮ  | Tablet mode             | Intel(R) Processor Graphics 74.2 MB   |
| O   | Multitasking            | Intel Corporation 6/13/2018   |
| æ   | Apps for websites       | Intel(R) Wireless Bluetooth(R)         28.4 MB           Intel Corporation         6/13/2018                  |
| 0   | About                   | Intel® PROSet/Wireless Software 342 MB<br>Intel Corporation 6/13/2018   |
|     |                         | Microsoft Visual C++ 2005 Redistributable 4.85 MB<br>Microsoft Corporation 8/29/2018                          |
|     |                         | Microsoft Visual C++ 2005 Redistributable 4.29 MB<br>Microsoft Corporation 8/29/2018                          |
|     |                         | Microsoft Visual C++ 2008 Redistributable 10.3 MB<br>Microsoft Corporation 8/29/2018                          |
|     |                         |   |

19. The R&S TSMA6 is now ready for operation. The "Backup" button should appear in the web GUI.