# How to Apply Patches for Running Remote Desktop on Windows 7

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This document describes the procedure how to apply two Microsoft patches to R&S devices running with Windows 7 in order to get Remote Desktop working with secure protocols. The two updates here are

KB3080079 KB4103712

Please be aware, that only devices with Windows 7 need these patches.

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# 1 Download Patches to USB Flash Drive

Operating System	Update	Download Link
Windows	KB3080079	https://catalog.s.download.windowsupdate.com/d/msdownload/update/software/updt/2015/09/win dows6.1-kb3080079-x64_2cb24acbc7ecbad33d452fdb00a57343e90dc3e5.msu
64-bit	KB4103712	https://catalog.s.download.windowsupdate.com/c/msdownload/update/software/secu/2018/04/windows6.1-kb4103712-x64_44bc3455369066d70f52da47c30ca765f511cf68.msu

## 2 Check Applicable Instruments

The following table shows an overview of applicable instruments:

Device	Windows Embedded 7	
	64-bit	
FPS	X	
FSW, FSWP, ESW, FSWT	Х	

### 3 Boot your device with administrator privileges

Boot your R&S device in an account with administrator privileges. Please refer to the manual of the device for details.

Note: The predefined user "instrument" is a suitable administrator account.

### 4 Determine the operating system

Some instruments are available with different operating system variants. During startup of the instrument, it shows "Windows XP (Embedded)", "Windows Embedded Standard 7" or "Windows 10". For Windows 7 it is necessary to check if a 32 or 64 Bit version is used. This can be checked under "Control Panel"-> "System and Security" -> "System"

The following is an example for Windows 7 with 64-bit:

S	ystem		
	Rating:	System rating is not availa	ble
	Processor:	Intel(R) Core(TM)2 Duo CP	U T9400 @ 2.53GHz 2.53 GHz
	Installed memory (RAM):	7,93 GB	
	System type:	64-bit Operating System	
	Pen and Touch:	No Pen or Touch Input is a	vailable for this Display

### 5 Windows 7

### 5.1 Windows Update

For installation of the updates the Windows update service needs to be enabled.

Note: Enabling of the Windows update service does not yet install any security updates.

The installation of the Updates might be blocked because of the Windows Update settings of the Windows embedded environment of the devices: See the screenshot below: Important updates set to "Never check for updates".

() S	me settings are managed by your system administrator. More information.
When using comp	your computer is online, Windows can automatically check for important updates and install them these settings. When new updates are available, you can also install them before shutting down the iter.
How d	oes automatic updating help me?
Impor	tant updates
	Never check for updates (not recommended)
V	
	Install new updates: Every day 👻 at 3:00 AM 👻
Recon	nmended updates
	Give me recommended updates the same way I receive important updates
Who (	an install updates
	Allow all users to install updates on this computer
Micro	soft Update
	Give me updates for Microsoft products and check for new optional Microsoft software when I update Windows
Softw	are notifications
	Show me detailed notifications when new Microsoft software is available
Note:	Windows Update might update itself automatically first when checking for other updates. Read our

#### 5.2 Enable Windows Update Service

• To open the "Services" Management Console press the Windows-Key (IP) and "R" at the same time, type "services.msc" into the Run dialog and press <ENTER>.

🖅 Run	
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
<u>O</u> pen:	services.msc 👻
	😵 This task will be created with administrative privileges.
	OK Cancel Browse

• Scroll down to the line "Windows Update" and verify that the service is started.

🐜 windows Remote Management (wis-Management)	WINDOWS R	ivianuai	INCOVOTE S
🔍 Windows Search	Provides co	Disabled	Local Syste
🧠 Windows Time	Maintains d	Manual	Local Service
🤹 Windows Update	Enables the Started		Local Syste
🔍 WinHTTP Web Proxy Auto-Discovery Service	WinHTTP i Started	Manual	Local Service
🔍 WMI Performance Adapter	Provides pe	Manual	Local Syste
(a) Workstation	Creater and Started	Automatic	Network S

If the service is not started double click on the line "Windows Update"

• Select Startup type: "Automatic" and then press the key "Apply"

Windows Update Properties (Local Computer)				
General Log O	n Recovery Dependencies			
Service name:	wuauserv			
Display name:	Windows Update			
Description:	Enables the detection, download, and installation of updates for Windows and other programs. If this			
Path to execut C:\Windows\s	able: ystem32\svchost.exe -k netsvcs			
Startup type:	Automatic			
Help me confic	ure service startup options.			
Service status:	Started			
Start	Stop Pause Resume			
You can specify the start parameters that apply when you start the service from here.				
Start paramete	15:			
	OK Cancel Apply			

• Start the service by click on the "Start" button

#### 5.3 Install Updates for Windows 7

Connect a keyboard, mouse and the USB flash drive to the R&S device, use Windows Explorer to navigate to the USB Flash Drive and install the Updates in this order:

- KB4103712 (Addresses an issue that may cause an error related to the CredSSEP updates when connecting to a Remote Desktop server)
- KB3080079 (Provides support for Transport Layer Security (TLS) 1.1 and TLS 1.2 in Windows 7 Service Pack 1 (SP1) for Remote Desktop Services (RDS))

### 5.4 Verify the Installation

After installation of the update(s) on the R&S device a final verification is possible via the "Installed Updates" Dialog in Windows 7. This can be found in "Control Panel"-> "Programs and features" -> "Installed Updates"

Check if all necessary Updates are installed.

Note: Please be aware that coming monthly rollups may lead to the situation, that the KB is no longer listed. Upcoming monthly rollups may already include previous Updates.

### 5.5 Disable Windows Update Service

Restore the default setting of the Windows Update Service:

• To open the "Services" Management Console press the Windows-Key (32) and "R" at the same time, type "services.msc" into the Run dialog and press <ENTER>.



• Scroll down to the line "Windows Update" and double click on it.

🦏 windows Remote Management (wis-Management)	WINDOWS N	Iviariuai	INCOVORK S
🔍 Windows Search	Provides co	Disabled	Local Syste
🔍 Windows Time	Maintains d	Manual	Local Service
😳 Windows Update	Enables the Started	Automatic	Local Syste
🍓 WinHTTP Web Proxy Auto-Discovery Service	WinHTTP i Started	Manual	Local Service
🔍 WMI Performance Adapter	Provides pe	Manual	Local Syste
(a) Workstation	Creater and Started	Automatic	Network S

• Select Startup type: "Deactivated"" and then press the key "Apply"

Windows Update P	Properties (Local Computer)				
General Log On	Recovery Dependencies				
Service name:	wuauserv				
Display name:	Windows Update				
Description:	Enables the detection, download, and installation of updates for Windows and other programs. If this				
Path to executab C:\Windows\sys	Path to executable: C:\Windows\system32\svchost.exe -k netsvcs				
Startup type:	Automatic 👻				
Help me configu	Help me configure service startup options.				
Service status:	Started				
Start	Stop Pause Resume				
You can specify the start parameters that apply when you start the service from here.					
Start parameters:					
	OK Cancel Apply				

• Stop the service by click on the "Stop" button

### 6 Customer Support

#### Technical support - where and when you need it

For quick, expert help with any Rohde & Schwarz equipment, contact one of our Customer Support Centers. A team of highly qualified engineers provides telephone support and will work with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz equipment.

#### Up-to-date information and upgrades

To keep your instrument up-to-date and to be informed about new application notes related to your instrument, please send an e-mail to the Customer Support Center stating your instrument and your wish. We will take care that you will get the right information.

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