Schneider Electric Security Notification

CVE-2019-0708 Microsoft Remote Desktop Services (BlueKeep) (V7.0)

12 July 2019 (12 October 2021)

Overview

Update: Schneider Electric is aware of an exploit available that targets the BlueKeep vulnerability. If not done so already, our customers should urgently consider applying the [remediations](#) detailed in this document.

Schneider Electric continues to actively investigate the impact of this Microsoft Remote Desktop Services (BlueKeep) vulnerability on our offers. Offer specific information will be posted here as it becomes available.

Schneider Electric offers with special or specific recommendations applicable to this vulnerability are listed below. As a general recommendation from Schneider Electric, we advise customers to refer immediately to [Microsoft's Security Update Guide](#) for further information and guidance for any affected systems that may or may not serve as a runtime environment for Schneider Electric software and services. [Microsoft warns that this vulnerability is wormable](#) and all affected systems should be updated as soon as possible.

Customers should proceed with caution when applying these patches to critical operating systems and/or performance-constrained systems. We strongly recommend evaluating the impact of these patches in a Test and Development environment or on an offline infrastructure.

Downloads for in-support versions of Windows can be found in the [Microsoft Security Update Guide](#). Customers who use an in-support version of Windows and have automatic updates enabled are protected once the patches are applied. Microsoft recommends that Windows 2003 and Windows XP users should further consider upgrading to the latest version of Windows to protect themselves from this vulnerability. Fixes have been made available by Microsoft for these out-of-support versions of Windows in [KB4500705](#).

Please refer to this link for more Information on the Microsoft RDS Vulnerability:
https://www.schneider-electric.com/en/download/document/SESB-2019-136-02/

October 2021 Update: Added [remediations](#) for *Conext™ Advisor 2 Cloud, Conext™ Advisor 2 Gateway, Conext™ Control V2 Gateway* (page 5).

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Vulnerability Details

CVE ID: **CVE-2019-0708**

CVSS v3.0 Base Score 9.8 | (Critical) | CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

A remote code execution vulnerability exists in Remote Desktop Services formerly known as Terminal Services when an unauthenticated attacker connects to the target system using RDP and sends specially crafted requests, aka 'Remote Desktop Services Remote Code Execution Vulnerability.

Affected Products and Remediation

Affected Product	Remediation
HMIG5U, PFXSP5B40 (Windows Embedded Standard 7 SP1 32bit) *All versions*	*This product is End of Life* Apply Security Patch provided by Microsoft for existing install base at https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708
HMIG5U2 (Windows Embedded Standard 7 SP1 32bit) *Versions 6.0 or prior*	Apply Security Patch provided by Microsoft for existing install base at https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708
PFXSP5B41 (Windows Embedded Standard 7 SP1 32bit) *Versions 5.0 or prior*	Apply Security Patch provided by Microsoft for existing install base at https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708

- HMIBMU, HMIBMP
  (Windows 7 Ultimate SP1 64bit)
- PS5000 Series
  (Windows 7 Ultimate SP1 64bit)
- HMIBMU, HMIBMP
  (Windows Embedded Standard 7 SP1 64bit)
- PS5000 Series
  (Windows Embedded Standard 7 SP1 32bit/64bit)
All versions prior to July 2020
	Apply Security Patch provided by Microsoft for existing install base at
	https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708

- HMIBSO
  (Windows Embedded Standard 2009 32bit)
- PE4000B Series
  (Windows Embedded Standard 2009 32bit)
- HMIBSU
  (Windows Embedded Standard 7 SP1 32bit)
- PE4000B Series
  (Windows Embedded Standard 7 SP1 32bit)
All versions
	This product is End of Life
	
	Apply Security Patch provided by Microsoft for existing install base at
	https://support.microsoft.com/en-us/help/4500705/customer-guidance-for-cve-2019-0708

- HMIPU, HMIPP
  (Windows7 Ultimate SP1 64bit)
- PS4600 Series
  (Windows7 Ultimate SP1 64bit)
- HMIPU, HMIPP
  (Windows Embedded Standard 2009 32bit)
- PS4600 Series
  (Windows Embedded Standard 2009 32bit)
- HMIPU, HMIPP
  (Windows Embedded Standard 7 SP1 32bit)
- PS4600 Series
  (Windows Embedded Standard 7 SP1 32bit)
All versions
	This product is End of Life
	
	Apply Security Patch provided by Microsoft for existing install base at
	https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708

- HMIG5UL8A
  (Windows Embedded Standard 7 SP1 32bit)
- PFXSP5B41S8A
  (Windows Embedded Standard 7 SP1 32bit)
All versions
	This product is End of Life
	
	Apply Security Patch provided by Microsoft for existing install base at
	https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708

- HMIG5UL8B
  (Windows Embedded Standard 7 SP1 32bit)
- PFXSP5B41S8B
  (Windows Embedded Standard 7 SP1 32bit)
Versions 1.1 or prior
	Apply Security Patch provided by Microsoft for existing install base at
	https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708

- HMIRSPSXR6S01 (Windows Server 2008 Standard R2) - HMIRSP (Windows7 64bit) - HMIRXOHCA3W01 (Windows7 32bit) - HMIRSOHPA3W01 (Windows7 64bit) - HMIRXOHCA3001 (Windows7 Ultimate 64bit) - HMIRSUH3A3701 (Windows7 Ultimate 64bit) - HMIRSUS3A3701 (Windows7 Ultimate 64bit) **All versions**	*This product is End of Life* Apply Security Patch provided by Microsoft for existing install base at https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708
TelevisGo **All versions prior to July 2019**	*Fixed in all BoxPC manufactured after July 15 2019* The vulnerability impacts the Windows 7 Operating system of the BoxPC hosting the TelevisGo application. The hot fix https://www.eliwell.com/it/search.html?q=TelevisGo included in all BoxPC manufactured after July 15, 2019, will be distributed to apply the patches to the BoxPCs already in the field We also strongly recommend to install Windows Security Update KB4499175 as a complementary remediation : https://support.microsoft.com/en-us/help/4499175/windows-7-update-kb4499175
EcoStruxure Foxboro DCS EcoStruxure Foxboro SCADA **All versions prior to May 2019**	*Fixed in all versions running: Windows 7 and Server 2008 and Windows XP and Server 2003* Schneider Electric has evaluated the Microsoft Security patches for this vulnerability and made them available to customers through Global customer Support Website https://pasupport.schneider-electric.com/home.asp We recommend that customers install the Security patches following the instructions in https://pasupport.schneider-electric.com/km/index?page=content&id=ADV307&cat=SECURITY_ISSUE&actp=LIST

ADMS *Versions 3.2, 3.3*	Microsoft KB4499180 and KB4500331 https://support.microsoft.com/en-us/help/4500705/customer-guidance-for-cve-2019-0708
ADMS *Versions 3.4, 3.5, 3.6*	Microsoft KB4499164 Monthly rollup https://support.microsoft.com/en-us/help/4499164/windows-7-update-kb4499164
Conext Control - Server *Windows Server 2008 R2 SP1*	Apply the following Microsoft security patch to the Conext Control server if it is running Windows Server 2008 R2 SP1: https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2019-0708
Conext™ Advisor 2 Cloud **V2.02 and prior**	Microsoft Windows 10 includes a fix for this vulnerability and is available for download here: https://www.microsoft.com/en-in/software-download/windows10 *Reboot is required*
Conext™ Advisor 2 Gateway **V1.28.45 and prior**	Microsoft Windows 10 includes a fix for this vulnerability and is available for download here: https://www.microsoft.com/en-in/software-download/windows10 *Reboot is required*
Conext™ Control V2 Gateway **V2.6 and prior**	Microsoft Windows 10 includes a fix for this vulnerability and is available for download here: https://www.microsoft.com/en-in/software-download/windows10 *Reboot is required*

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wGeneral Security Recommendations

We strongly recommend following industry cybersecurity best practices such as:

- Locate control and safety system networks and remote devices behind firewalls, and isolate them from the business network.
- Physical controls should be in place so that no unauthorized person would have access to the ICS and safety controllers, peripheral equipment or the ICS and safety networks.
- All controllers should reside in locked cabinets and never be left in the "Program" mode.
- All programming software should be kept in locked cabinets and should never be connected to any network other than the network for the devices that it is intended.
- All methods of mobile data exchange with the isolated network such as CDs, USB drives, etc. should be scanned before use in the terminals or any node connected to these networks.
- Laptops that have connected to any other network besides the intended network should never be allowed to connect to the safety or control networks without proper sanitation.
- Minimize network exposure for all control system devices and/or systems, and ensure that they are not accessible from the Internet.
- When remote access is required, use secure methods, such as Virtual Private Networks (VPNs), recognizing that VPNs may have vulnerabilities and should be updated to the most current version available. Also recognize that VPN is only as secure as the connected devices.

For More Information

This document provides an overview of the identified vulnerability or vulnerabilities and actions required to mitigate. For more details and assistance on how to protect your installation, please contact your local Schneider Electric representative or Schneider Electric Industrial Cybersecurity Services. These organizations will be fully aware of this situation and can support you through the process.

http://www2.schneider-electric.com/sites/corporate/en/support/cybersecurity/cybersecurity.page

https://www.schneider-electric.com/en/work/services/field-services/industrial-automation/industrial-cybersecurity/industrial-cybersecurity.jsp

Legal Disclaimer

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About Schneider Electric

At Schneider, we believe **access to energy and digital automation** is a basic human right. We empower all to **do more with less**, ensuring **Life Is On** everywhere, for everyone, at every moment.

We provide **energy and digital automation** solutions for **efficiency and sustainability.** We combine world-leading energy technologies, real-time automation, software and services into integrated solutions for Homes, Buildings, Data Centers, Infrastructure and Industries.

We are committed to unleash the infinite possibilities of an **open, global, innovative community** that is passionate with our **Meaningful Purpose, Inclusive and Empowered** values.

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Revision Control:

Version 1.0 *12 July 2019*	Original Release
Version 2.0 *10 September 2019*	Exploit information added to Overview Section (page 1)
Version 3.0 *11 September 2019*	Product versions updated (page 6)
Version 4.0 *24 September 2019*	Added "Conext Control" to list of affected products (page 6)
Version 5.0 *12 November 2019*	Updated "Conext Control" affected products and remediation detail (page 6)
Version 6.0 *14 July 2020*	Updated "HMI products" (pages 2,3,4)
Version 7.0 *12 October 2021*	Added remediations for *Conext™ Advisor 2 Cloud, Conext™ Advisor 2 Gateway*, *Conext™ Control V2 Gateway* (page 5)