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MP210xA/MP2100B/MP2110A Security Update against WannaCrypt Ransomware — Installation Instructions —

1 Overview

This document describes instructions for installing the security update against the WannaCrypt* (ransomware) worm to the Windows Embedded standard 2009(WES2009) or Windows Embedded standard 7(WES7) OS built in the MP210xA/MP2100B/MP2110A.

*WannaCrypt is also known as WannaCry, WannaCryptor or Wcry.

If MP2100B/MP2110A is already infected by WannaCrypt, perform System Recovery and then install this security update.

Note:

Data should be backed-up before System Recovery, because all applications and updates installed after factory shipment are lost and data saved in the C drive is initialized at System Recovery.

If MP2110A is already infected by WannaCrypt, contact the Anritsu sales office for how to initialize MP210xA/MP2100B/MP2110A to the condition at factory shipment.

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3 Instructions

3.1 Preparing

1. Equipment needed for installation

The following equipment is needed for installing the update.

- Internet-connected PC
- ${\boldsymbol{\cdot}}$ USB flash memory that can be mounted on both

MP210xA/MP2100B/MP2110A and PC desktops.

The USB flash memory must not have any security management function.

- Mouse and keyboard for operating MP210xA/MP2100B/MP2110A.
- External monitor for MP2110A.

Note:

Scan and confirm that the PC and USB flash memory are not infected by any malware.

2. Backing-up important files

We recommend creating a backup of important data* to external storage such as USB flash memory to guard against data loss problems when installing the update.

* Waveform data, analysis results, configuration files, and other important files.

Note:

<u>Anritsu will not be held liable for loss of data on the storage device in MP210xA/MP2100B/MP2110A.</u>

- 3.2 Confirming Windows Version of MP210xA/MP2100B/MP2110A Confirm the build version of the Windows OS in the MP210xA/MP2100B/MP2110A.
 - MP210xA/MP2100B
 Windows Embedded Standard 2009 (WES2009)
 - MP2110A
 Windows Embedded Standard 7 (WES7 64-bit)

3.3 Obtaining Update

Download the correct update from Microsoft's homepage. Use an Internet-connected PC to download the update.

This section describes the PC operation for downloading.

Note:

DO NOT connect the MP210xA/MP2100B/MP2110A directly to the Internet to download the update.

- Windows Embedded Standard 2009 (WES2009)
- 1. Access the following page and download the update for WES2009 against WannaCrypt.

 $\underline{http://www.catalog.update.microsoft.com/Home.aspx}$

Input KB4012598 in the following box and click "Search".



2. At the displayed catalog page, click "Download" for "Security Update for WES09 and POSReady 2009 (KB4012598) Windows XP Embedded".

osoft'Update Catalog			KB4012	598		×
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sarch results for "KB4012598"						
ts: 1 - 13 of 13 (page 1 of 1)						🔶 Previous J
Title	Products	Classification	Last Updated	Version	Size	
Security Update for Windows 8 (KB4012598)	Windows 8	Security Updates	5/13/2017	n/a	872 KB	Download
Security Update for Windows XP SP3 (K84012598)	Windows XP	Security Updates	5/13/2017	n/a	665 KB	Download
Security Update for Windows Vista (KB4012598)	Windows Vista	Security Updates	3/12/2017	n/a	1.2 MB	Download
Security Update for Windows Server 2008 (K84012598)	Windows Server 2008	Security Updates	3/12/2017	n/a	1.2 MB	Download
Security Update for Windows Server 2003 for x64-based Systems (KB4012598)	Windows Server 2003, Windows Server 2003, Datacenter Edition	Security Updates	5/13/2017	n/a	951 KB	Download
Security Update for Windows 8 for x64-based Systems (K84012598)	Windows 8	Security Updates	5/13/2017	n/a	984 KB	Download
Security Update for Windows XP SP3 for XPe (KB4012598)	Windows XP Embedded	Security Updates	5/13/2017	n/a	665 KB	Download
Security Update for Windows Server 2003 (K84012598)	Windows Server 2003, Windows Server 2003, Datacenter Edition	Security Updates	5/13/2017	n/a	682 KB	Download
Security Update for Windows XP SP2 for x64-based Systems (KB4012598)	Windows XP x64 Edition	Security Updates	5/13/2017	n/a	951 KB	Download
Security Update for Windows Vista for x64-based Systems (K84012598)	Windows Vista	Security Updates	3/12/2017	n/a	1.3 MB	Download
Security Update for Windows Server 2008 for Itanium-based Systems (KB4012598)	Windows Server 2008	Security Updates	3/12/2017	n/a	1.2 MB	Download
Security Update for Windows Server 2008 for x64-based Systems (K84012598)	Windows Server 2008	Security Updates	3/12/2017	n/a	1.3 MB	Download
Security Update for WES09 and POSReady 2009 (K84012598)	Windows XP Embedded	Security Updates		n/a	665 KB	Download

3. At the Download screen, click the file name and save the file to the PC. Copy the file to USB flash memory.

Download	
ownload Updates	
ecurity Update for WES09 and POSReady 2009 (KB4012598)	
nglish indowsxp-kb4012598-x86-embedded-enu_9515c11bc77e39695b83cb6f0e41119387580e30.e	xe
lebrew indowsxp-kb4012598-x86-embedded-heb_8064c93bbbf8ea637d1fe538345300b46c3ff115.ex	e
erman indowsxp-kb4012598-x86-embedded-deu_8704f226a204954807d4be2a7bb21cae2bc802df.e:	xe
anish	

- Windows Embedded Standard 7 (WES7) (64-bit)
- 1. Access the following page and download the update for WES7 against WannaCrypt.

http://www.catalog.update.microsoft.com/Home.aspx

Input KB4012212 in the following box and click "Search".



 At the displayed catalog page, click "Download" for "March, 2017 Security Only Quality Update for Windows Embedded Standard 7 for x64-based Systems (KB4012212) Windows Embedded Standard 7".

osoft'Update Catalog			KB40122	12		× s
arch results for "KB4012212"						
es: 1 - 6 of 6 (page 1 of 1)						👍 Previous Ne
Title	Products	Classification	Last Updated	Version	Size	-
March, 2017 Security Only Quality Update for Windows 7 for x64-based Systems (KB4012212)	Windows 7	Security Updates	3/28/2017	n/a	33.2 MB	Download
March, 2017 Security Only Quality Update for Windows 7 (KB4012212)	Windows 7	Security Updates	3/28/2017	n/a	18.8 MB	Download
	Windows 7 Windows Embedded Standard 7	Security Updates Security Updates		n/a n/a	18.8 MB 18.8 MB	Download Download
March, 2017 Security Only Quality Update for Windows 7 (KB4012212)		2.1	3/28/2017			_
March, 2017 Security Only Quality Update for Windows 7 (kB4012212) March, 2017 Security Only Quality Update for Windows Embedded Standard 7 (kB4012212)	Windows Embedded Standard 7	Security Updates	3/28/2017 3/28/2017	n/a	18.8 MB	Download

3. At the Download screen, click the file name and save the file to the PC. Copy the file to USB flash memory.



3.4 Preparing for Installation

- 1. Connect a mouse to the USB port of MP210xA/MP2100B/MP2110A. If the target is MP2110A, connect also an external monitor to it and turn the monitor on.
- 2. Connect the AC power cord to the power outlet and MP210xA/MP2100B/MP2110A's power inlet. MP210xA/MP2100B/MP2110A becomes ready and the stand by lamp illuminates orange.
- 3. Turn the MP210xA/MP2100B/MP2110A on. The power lamp illuminates green. The initial window appears after Windows boots up.
- After 30 seconds, the application automatically launches.
 Quit the application before installing update program following instructions below.

Copy the update in the USB flash memory to the desktop of MP210xA/MP2100B/MP2110A.

■ MP210xA/MP2100B

The Selector window appears. Close it by clicking "X" button at the top right. After 15 seconds, Main Application automatically launches. In that case, follow the instructions of MP2110A to close the application and close the Selector window again.

MX210000A BERTWave Control Software		X
	Main application is started automatically in 15 Seconds,	
	Main application	
A	Setup utility	
因	Exit	
	Shut down	

■ MP2110A

The Application window appears. Click "Select Menu" and click "Exit". Then confirmation dialog box appears. Click "Yes" on it and the application window closes.

System Menu	Tracking All BER Results All Measurements	All Outputs Remote 05/31/2017 off on Measure Output 08:47:30	∕Inritsu
Save Open		PPG/EDCh 2 PPG Data XData OFF Setup/Result	05.00.50 PPG/ED Ch 1
Screen Copy Initialize 250 kbit/s 0 ppm	Reference CLK Internal	Bi Rate Variable (24.328.26) 25781250 kbit/s 0 ppm	PPG/ED Ch 2
Panel Lock Local/Panel Unlock 0 dB 0.40 VP-P Before Use Minimize		PPG Amplitude	PPG/ED Ch 3
Dock/Undock Remote Control	Output	Electrical Ext ATT 0 dB 0 mV Test Pattern	PPG/ED Ch 4
ED PRBS 2^9.1 POS Tracking ON	Sync Out PPG1_18Clk Clk Out Ch12 1/4 Clock	PPG PRBS 2^9.1 POS ED PRBS 2^9.1 POS Tracking ON	_
ED Result "All" Start Time	Error Addition Insert Error 20 bit	ED Result "All"	Z
ER E-15 E-12 E-9 E-6 E-3 E-0 EC Start / Stop	Gating Cycle Repeat	ER <u>E-15 E-12 E-9 E-6 E-3 E-0</u> EC <u>Start / Stop</u> CC <u>History</u>	Scope
FREQ(kHz) SYNC Loss SYNC L	Current ON	FREO(kHz) SYNC Loss II	

3.5 Installing Update in MP210xA/MP2100B/MP2110A

Quit all applications installed in the MP210xA/MP2100B/MP2110A by the customer.

- Copy the update downloaded as described section 3.3 "Obtaining Update" to USB flash memory and then plug this memory into the MP210xA/MP2100B/MP2110A USB port.
- 2. Double-click "My Computer" on the desktop.
- 3. Copy the file to the desktop of MP210xA/MP2100B/MP2110A. After copying, unmount the USB flash memory from the desktop.

Note:

Unmount the USB flash memory by clicking the USB Eject icon on the taskbar at the bottom right of the screen and then remove the USB flash memory from the USB port.

4. Install the update.

Double-click the copied file. The update program will launch. Follow the displayed instructions to continue installation.

After installation completes, restart Windows.
 If the installer does not appear, restart Windows from the Start menu.

3.6 Confirming Update after Installation

■ MP210xA/MP2100B

Confirm the installation of the update.

- 1. Quit all applications following 3.4 "Preparing for Installation".
- 2. Click Windows "Start" and select "Control Panel".
- 3. Select "Add or Remove Programs".
- 4. Check "Show Updates" at the top and confirm the presence of "Security Update for Windows XP (KB4012598)" as following.

🖥 Add or Re	move Programs		_ 🗆 🔀
5	Currently installed programs and updates:	Show updates Sort by:	Name 🗸
C <u>h</u> ange or Remove	⊮ .NET Framework WCS	Installed On	1/25/2010 🔺
Programs	뤵 NET Framework WPF 3 x86	Installed On	1/25/2010
	₿NET Framework WPF 2 x86	Installed On	1/25/2010
Add New	眵 .NET Framework XPS	Installed On	1/25/2010
Programs	貿 .NET Framework WCF	Installed On	1/25/2010
5	🕏 NET Framework WPF 3	Installed On	1/25/2010
Add/Remove	B Microsoft .NET Framework 3.5	Size	25.03MB
Windows	貿 Microsoft Visual C++ 2005 Redistributable	Size	5.21MB
Components	🕼 Microsoft Visual C++ 2008 Redistributable - x86 9.0.21022	Size	6.68MB
	💯 PCI GW-US54GXS 54Mbps WLAN USB Adapter	Size	5.83MB
	🕼 Quartus II 9.1 Programmer and SignalTap II	Size	823.00MB
	Kational Purify	Size	78.88MB
	₿ REALTEK GbE & FE Ethernet PCI-E NIC Driver	Size	0.79MB
	🔀 Realtek High Definition Audio Driver	Size	48.32MB
	🖲 Ruby-186-26	Size	144.00MB
	🐣 Tera Term 4.64	Size	5.50MB
	😼 UltraVnc	Size	5.10MB =
	🎥 Windows XP - Software Updates		
	2 Windows Imaging Component	Installed On	1/25/2010
	Security Update for Windows XP (KB4012598)	Installed On	5/19/2017
	♥ WinPcap 4.1.1	Size	0.23MB
	Wireshark 1.2.7	Size	76.84MB 🤿

5. Delete the update file.

When the installation is confirmed, the copied file is not needed. Delete it from the desktop.

■ MP2110A

Confirm the installation of the update.

- 1. Quit all applications following 3.4 "Preparing for Installation".
- 2. Click Start on the Windows task bar and select "Control Panel".
- 3. Select "View installed updates" in the displayed items when selecting "Programs".
- 4. Confirm the presence of KB4012212 as following.

Installed Updates	Programs ▼ Programs and Features ▼ Installed Upda	ter		
Control Panel Home	Uninstall an update			
Uninstall a program	To uninstall an update, select it from the list a	nd then click Uninstall or Change.		
🛞 Turn Windows features on or off	Organize 🔻 Uninstall			:
	Name Microsoft Windows (293)	▼ Program ▼ Version	↓ Publisher	▼ I ▼ ▼
	Security Update for Microsoft Will dows (KB401) Hotfix for Microsoft Windows (KB947821)	2212) Microsoft Windows Microsoft Windows	Microsoft Corporation Microsoft Corporation	5/15/2017 8/20/2014

5. Delete the update files.

When the installation is confirmed, the copied file is not needed. Delete it from the desktop.

4 Other Notes

System Recovery

If System Recovery is executed again after installing this update, re-install this update again as described in section 3 "Instructions".

Contact

For questions about these instructions, update installation failures or unclear points, contact your Anritsu Service Center or Sales office.

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