



Wi-Fi Protected Access II (WPA2) protocol vulnerability

NOTICE: Getac is urgently working on qualifying and applying the fixes provided by Intel and Microsoft on supported systems. Please continue to refer to Getac website to identify fixes as they are posted for your systems.

Release Date: Nov 6, 2017

Last Updated: Nov 17, 2017

Source: Intel / Microsoft

Summary:

Researchers Mathy Vanhoef and Frank Piessens, from the University of Leuven, identified a series of vulnerabilities that affect the Wi-Fi Protected Access (WPA) and Wi-Fi Protected Access II (WPA2) standards. The paper is available through the following link: <https://papers.mathyvanhoef.com/ccs2017.pdf>

Description:

An attacker within range of an affected wireless access point (AP) and client may leverage these vulnerabilities to conduct attacks using susceptible data confidentiality protocols.

The following Common Vulnerability and Exposure (CVE) identifiers have been assigned to each of these vulnerabilities:

CVE-2017-13077 reinstallation of the pairwise key in the 4-way handshake

CVE-2017-13078 reinstallation of the group key in the 4-way handshake

CVE-2017-13079 reinstallation of the integrity group key in the 4-way handshake

CVE-2017-13080 reinstallation of the group key in the group key handshake

CVE-2017-13081 reinstallation of the integrity group key in the group key handshake

CVE-2017-13082 Accepting a retransmitted FT Re-association Request and reinstalling the pairwise key while processing it

CVE-2017-13084 reinstallation of the STK key in the PeerKey handshake



CVE-2017-13086 Reinstallation of the Tunneled Direct-Link Setup (TDLS) PeerKey (TPK) key in the TDLS handshake

CVE-2017-13087 Reinstallation of the group key (GTK) when processing a Wireless Network Management (WNM) Sleep Mode Response frame

CVE-2017-13088 Reinstallation of the integrity group key (IGTK) when processing a Wireless Network Management (WNM) Sleep Mode Response frame

CVEs relevant to Intel® Products and Technologies are:

CVE-2017-13077, CVE-2017-13078, CVE-2017-13080, CVE-2017-13081

Recommendations:

Getac highly recommends that customers adopt the updates that include the mitigations for the relevant CVE IDs referenced above.

1. Update the Microsoft KB: <https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2017-13080>
2. Update WiFi driver
3. Update ME FW package
4. Android-based platform: Google supports updates for Android Based models (Getac will follow Google updates for Android Based models. Users are recommended to check and update your device via tablet settings)



IMPACTED PRODUCTS

Product	CPU Generation	Previous Driver	Latest Driver	Targeted Date	Driver Download page	Previous ME FW	Latest ME FW	Targeted Date	Download link
V110	4th Gen Core	Win 7: 17.0.6 Win8.1: 17.0.6	18.33.9.3	2017/11/17	Click here	9.5.61.3012 9.5.50.1932	9.5.62.3002	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108691&cateid=100183
	5th Gen Core	Win 7: 19.20.0.6 Win 8.1: 18.30.1 Win 10: 19.20.0.6	19.10.9.2 19.51.7.2	2017/11/10	Click here	10.0.55.3000	10.0.56.3002	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108690&cateid=100183
	6th Gen Core	Win 7: 19.20.0.6 Win 10: 19.20.0.6	20.0.2.3	2017/11/10	Click here	11.0.25.3001	11.8.50.3425	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108689&cateid=100183
F110	4th Gen Core	Win 7: 17.0.6 Win 8.1: 17.0.6	18.33.9.3	2017/11/17	Click here	9.5.61.3012 9.5.50.1932	9.5.62.3002	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108691&cateid=100183



Product	CPU Generation	Previous Driver	Latest Driver	Targeted Date	Driver Download page	Previous ME FW	Latest ME FW	Targeted Date	Download link
	5th Gen Core	Win 7: 19.10.1.2 Win 8.1: 18.30.1.3 Win 10: 19.20.0.6	19.10.9.2 19.51.7.2	2017/11/10	Click here	10.0.55.3000	10.0.56.3002	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108690&cateid=100183
	6th Gen Core	Win 7: 19.20.0.6 Win 10: 19.20.0.6	20.0.2.3	2017/11/10	Click here	11.0.25.3001	11.8.50.3425	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108689&cateid=100183
	7th Gen Core	Win 10: 19.70.0.5	20.0.2.3	2017/11/10	Click here	11.7.0.3307	11.8.50.3425	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108689&cateid=100183
S410	6th Gen Core	Win 7: 19.20.0.6 Win 10:	20.0.2.3	2017/11/10	Click here	11.0.25.3001	11.8.50.3425	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108689



Product	CPU Generation	Previous Driver	Latest Driver	Targeted Date	Driver Download page	Previous ME FW	Latest ME FW	Targeted Date	Download link
		19.20.0.6							&cateid=100183
	7th & 8th Gen Core	Win 10: 19.70.0.5	20.0.2.3	2017/11/10	Click here	11.7.0.3307	11.8.50.3425	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108689&cateid=100183
S400	4th Gen Core	Win 7: 18.30.0.9 Win 8.1: 18.30.0.9 Win 10: 18.30.0.9	18.33.9.3	2017/11/17	Click here	9.1.41.3024	9.1.42.3002	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108692&cateid=100183
B300	4th Gen Core	Win 7: 19.30.0.4 Win 8.1: 19.30.0.4	18.33.9.3	2017/11/10	Click here	9.1.41.3024	9.1.42.3002	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108692&cateid=100183
	6th Gen Core	Win 7: 19.20.0.6 Win 10:	20.0.2.3	2017/11/10	Click here	11.0.25.3001	11.8.50.3425	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108689



Product	CPU Generation	Previous Driver	Latest Driver	Targeted Date	Driver Download page	Previous ME FW	Latest ME FW	Targeted Date	Download link
		19.20.0.6							&cateid=100183
A140	6th Gen Core	Win 7: 19.70.0.5 Win 10: 19.50.0.11	20.0.2.3	2017/11/10	Click here	11.0.25.3001	11.8.50.3425	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108689&cateid=100183
X500	4th Gen Core	Win 7: 17.0.6.1 Win 8.1: 17.0.6.1 Win 10: 18.33.3.2 Win Server 2012: 17.0.6.1	18.33.9.3	2017/11/10	Click here	9.1.41.3024	9.1.42.3002	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108692&cateid=100183
RX10	5th Gen Core	Win 7: 19.10.9.2 Win 8.1: 18.30.1.3 Win 10: 19.10.9.2	19.10.9.2 19.51.7.2	2017/11/10	Click here	10.0.55.3000	10.0.56.3002	2017/11/17	http://us.getac.com/inc/filereader.aspx?fileid=108690&cateid=100183



Product	CPU Generation	Previous Driver	Latest Driver	Targeted Date	Driver Download page	Previous ME FW	Latest ME FW	Targeted Date	Download link
T800	Bay Trail	Win 7: 18.20.0.9 Win8.1: 17.13.3.1 Win 10: 18.20.0.9	18.33.9.3	2017/11/10	Click here	N/A	N/A	N/A	N/A
	CHT T4	Win 10: 19.51.7.2	19.10.9.2 19.51.7.2	2017/11/10	Click here	N/A	N/A	N/A	N/A
MX50	CHT T3	N/A	2018/1/1			N/A	N/A	N/A	N/A
ZX70	CHT T3	N/A	2018/1/1			N/A	N/A	N/A	N/A
EX80	CHT T3	5.93.103.28	5.93.103.29	2017/11/10	Click here	N/A	N/A	N/A	N/A

Note: Please power off then power on your system after driver and ME FW update

Note: 6th Gen CPU products need to update WiFi and BT driver together for best compatibility

Note: For Intel® Active Management Technology, there is no planned Intel® Manageability Engine firmware update for versions 2.x-7.x because those versions are no longer supported.

Note: ATOM platform does not support Intel® Active Management Technology



Note: Intel WiDi is EOL and no longer to support so if you update the latest driver then it will impact the WiDi feature and suggest to update the Microsoft KB

Related Information:

1. Intel: <https://security-center.intel.com/advisory.aspx?intelid=INTEL-SA-00101&languageid=en-fr>
2. Microsoft: <https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2017-13080>