

VIVOTEK Product Security Advisory

Advisory ID: VVTK-SA-2018-002

CVE ID: CVE-2017-13077, CVE-2017-13078, CVE-2017-13079, CVE-2017-13080,
CVE-2017-13081, CVE-2017-13082, CVE-2017-13084, CVE-2017-13086,
CVE-2017-13087, CVE-2017-13088

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Status: Confirmed

Revision: 1

Overview:

Security researcher Mathy Vanhoef and Frank Piessens discovered that WPA2 can be broken by forcing nonce reuse. These are vulnerabilities in Wi-Fi standard. An attacker within range of a victim can exploit these weaknesses using key reinstallation attacks (KRACKs). This can be abused to steal sensitive information and also be possible to inject and manipulate data.

Affect Products:

IP8160-W all versions prior to IP8160-W-VVTK-0100j

IB8360-W all versions prior to IB8360-W-VVTK-0100g

IP8130W all versions prior to IP8130W-VVTK-0100e

IP8131W all versions prior to IP8131W-VVTK-0100e

IP8336W all versions prior to IP8336-VVTK-0103a

Workarounds:

To stay safe from KRACK attacks, enable HTTPS secure connection with HTTPs Only mode to keep your data encrypted.

Users are encouraged to upgrade to the temporary release firmware. So far, we have fixed all-zero encryption key instead of reinstalling the real key in the following temporary release, which is available for immediate download:

IP8160-W

<ftp://fae:fae@ftp.vivotek.com/Firmware/IP8160-W/Sample/IP8160W-VVTK-0100l.flash.pkg>

IB8360-W

<ftp://fae:fae@ftp.vivotek.com/Firmware/IB8360-W/Sample/IB8360-VVTK-0100i.flash.pkg>



Due to IP8133W being EOS since 2015/12/02, firmware support on this model has already ended. Therefore, a solution to solve IP8133W vulnerabilities is not available.

Solution:

Please upgrade firmware to the following version or later.

IP8160-W IP8160-W-VVTK-0101 or later

IB8360-W IB8360-W-VVTK-0101 or later

IP8130W IP8130-VVTK-0100f or later

IP8131W IP8131-VVTK-0100f or later

IP8336W IP8336-VVTK-0103b or later

The official firmware for IP8160-W and IB8360-W will be available at the end of March 2018.

Revision History:

Revision 1 / January 25, 2018 / Initial release