

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

First Published: January 24, 2018

Last Update: August 24, 2018

Status: Fixed

Revision: 2

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

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, IP8130W, IP8131W, IP8336W being EOS, firmware support on this model has already ended. Therefore, a solution to solve IP8133W, IP8130W, IP8131W, IP8336W vulnerabilities is not available.

Solution:

Please upgrade firmware to the following version or later.

IP8160-W IP8160-W-VVTK-0106a or above.

IB8360-W IB8360-W-VVTK-0106a or above.

Alert:

Due to CSRF protection solution, after upgraded you camera firmware, please also upgrade your Shepherd to version 3.0 or above to make all operations function normally.

Revision History:

Revision 1 / January 25, 2018 / Initial release

Revision 2 / August 24, 2018 / Fixed firmware release