SECURITY
LICENSING
PERFECTION IN PROTECTION

WIBU SYSTEMS

WIBU-SYSTEMS AG | Rüppurrer Straße 52-54 | 76137 Karlsruhe | Deutschland

Karlsruhe, Germany - 19 December 2018

Important Information about WibuKey

Dear WibuKey User!

The publisher of the software used by you employs WibuKey for protection and licensing purposes. A security analyst has notified us about the presence of three vulnerabilities in WibuKey. These will be made public on January 24th, 2019 under the following CVE identifiers:

- CVE-2018-3989: WIBU-SYSTEMS WibuKey.sys kernel memory information disclosure vulnerability
  This CVE is a medium-severity vulnerability (CVSS rating: 4.3).
  It affects only Windows systems and allows unauthorized reading of the kernel memory information on the local system.
- CVE-2018-3990: WIBU-SYSTEMS WibuKey.sys pool corruption privilege escalation vulnerability
  This CVE is considered a critical vulnerability (CVSS rating 9.3).
  It affects only Windows systems and allows a potential unauthorized escalation of privileges on the local system.
- CVE-2018-3991: WIBU-SYSTEMS WibuKey network server management remote code execution vulnerability
  This CVE is considered a critical vulnerability (CVSS Rating 10.0).
  It affects all operating systems and potentially allows the execution of code on WibuKey network servers available in the network.
  The vulnerability affects only systems on which a WibuKey network server is running, i.e. systems that are providing licenses from a plugged-in WibuBox for use by other clients in the network.

Upon being notified, we immediately assessed the situation, analyzed the root causes, and fixed the vulnerabilities. With our own staff and in cooperation with another security service provider, we reviewed all components of WibuKey Runtime in detail and updated them to the current state of the art.

Version 6.50 of WibuKey Runtime is available for download from our servers NOW:

https://www.wibu.com/support/user/downloads-user-software.html#download-216

Following our assessment of the vulnerabilities, we urgently recommend an update of WibuKey Runtime to this new version on all systems not running in protected environments.

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Frequently Asked Questions:

Q: *How critical is the situation in practice?*
A: *To exploit the vulnerabilities, an attacker would have to be able to execute software on the system itself or on a system in the same network. For this to be possible, the attacker would have to have broken into the network beforehand or otherwise gained access to it. If an attacker has managed to do this, he could exploit these vulnerabilities to run code needing higher privileges on the local system or on a system running a WibuKey server on the network.*

Q: *Do I have to install the update on all systems?*
A: *macOS and Linux systems that do not have any WibuKey server running are not affected by the vulnerabilities and can continue to operate the older version.*

Q: *My systems are running in protected environments. Do I still have to install the update?*
A: *If you can guarantee that no attacker can access your network, you can skip the update as the vulnerabilities could not be exploited in your case.*

Please accept our apologies for any inconvenience we may have caused you!

Sincerely yours,

Wolfgang Voelker
Director Product Management

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