



WELCOME HOME

## Exemplary safe: Nuki's Smart Lock receives AV security certificate

Nuki is the first smart door lock to be awarded the title of "Safe Smart Home Product"

Graz, April 2018 - The leading supplier of retrofittable, smart access solutions in Europe is also playing a pioneering role in the area of security. The Graz-based company has had its Nuki Combo, consisting of Smart Lock and Bridge, extensively tested by the AV-TEST Institute and successfully passed the test in all areas. The AV-Test "Tested Smart Home Product" seal confirms compliance with all safety requirements based on the current test catalog.

*"The desire for verified security is particularly high for a door lock," says **Martin Pansy**, founder and CEO of Nuki Home Solutions. "Right from the start the safety issue was therefore focus of our product development. We are very pleased about a renewed objective confirmation of our high security skills through the AV-Test certificate."*

The AV-Test Institute, headquartered in Magdeburg, is an independent global leading provider of IT security and anti-virus research. In addition to the Nuki Combo and Nuki app, the security experts have also reviewed the associated Alexa Custom Skill for Amazon Echo. Nuki convinced the testers in all points.

*"Nuki proves that well thought-out security does not have to compromise the usability of a smart home product," says **Maik Morgenstern**, CTO of the AV-TEST Institute. "The result clearly shows that safety in product development played a decisive role right from the start - that's exemplary."*

### The analysis results in detail

The investigation confirmed secure communication both locally and online. When calling the Nuki Smart Lock with Bluetooth LE via the app, the access is encrypted end-to-end and effectively protected against replay attacks. When using the app via the invitation code, an administration PIN is defined for the connection, which must be entered. To protect yourself even more, the pairing method can be disabled by a button in the app.

The Nuki Bridge provides remote access to the smart lock via app and web. The connection to the smart lock is made via the manufacturer server and the Nuki Bridge. Appropriate security is ensured here as well by an End-to-end encryption, where only the sender and recipient have access to sent data.

Communication between the app and the server are encrypted via TLS 1.2, the communication between server and bridge via TLS 1.1. Both are armed against man-in-the-middle attacks because, in addition to TLS-based encryption certificate pinning is used, this means communication with unknown certificates is stopped immediately.

The analysis also confirmed the safety of the app. It showed that there are no obvious or critical vulnerabilities in the implementation of security-related features such as pairing, authentication and encryption. There is also no evidence of unprotected or vulnerable storage of sensitive data on the smartphone that could be used by potential attackers for tampering.

The testing of the Amazon Alexa Skills again confirmed Nuki's sophisticated security concept. To open the smart lock with the Nuki app, security input is required.

### **Exemplary privacy protection**

The privacy statement was praised as easily understandable. In addition, it was positively emphasized that no data is passed on to third parties. It is possible to delete the Nuki Web account directly in Nuki Web, as well as to remove individual Smart Locks from the account.

The detailed test result can be found under [http://bit.ly/Nuki\\_AV\\_securitycertificate](http://bit.ly/Nuki_AV_securitycertificate) or directly at <https://www.iot-tests.org/2018/04/smartlock-from-nuki-awarded-with-smart-home-security-certificate/>. Detailed information on Nuki's security concept and already received security awards can also be found at [www.nuki.io/en/blog](http://www.nuki.io/en/blog).