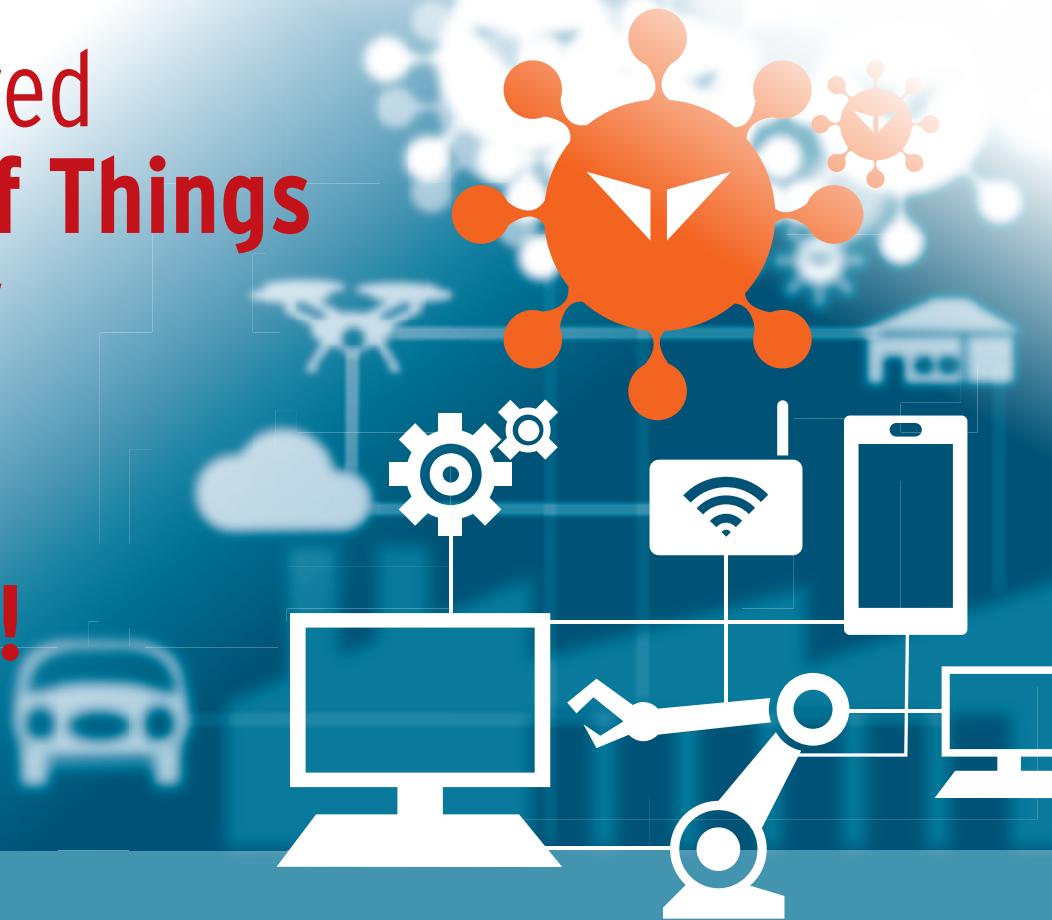


# An unsecured Internet of Things can quickly become an Internet of Threats!



**Everything is networked, but hardly anything is secure.** That is not a pessimistic vision of the future, but already the reality of today. The Internet of Things is rapidly growing, and IoT products can now be found in virtually every household and every company. Whereas the market demand continues unabated, there is also growing distrust and concern on the customer side. A steady stream of reports on data leaks and vulnerabilities, as well as a constantly increasing threat potential, are taking their toll.

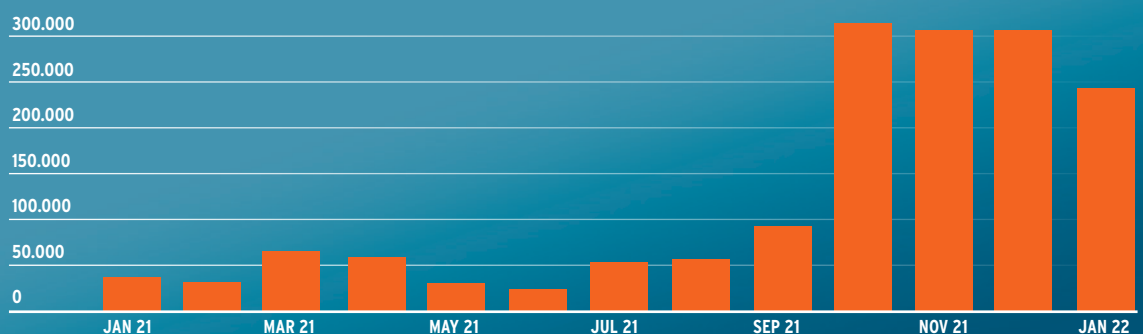
Year after year, we see increased threats in the area of Internet of Things. Hacker attacks, malware, botnets - with increased cybercrime, the threat of insufficiently protected IoT products is also experiencing tremendous growth.

## Attack statistics AV-TEST honeypots in 2021

Registered attacks  
**96.529.003**

Commands carried out by attackers  
**680.462.351**

Monthly growth  
in new  
Linux malware 2021



(Source: <https://portal.av-atlas.org/>)

# Certified security builds trust

Since 2015, the experts at the independent security institute AV-TEST have been conducting tests and certifications in the area of Internet of Things. Since then, several hundred devices have been evaluated in comprehensive security tests. The internationally recognized seal of approval from AV-TEST helps products in achieving a decisive competitive advantage: customer trust.

## Practical tests and consultation raise the level of security for everyone

80% of the over 150 devices previously tested were shown to have at least moderate vulnerabilities and therefore did not receive any certification. After a maximum of 6 months of consultation and cooperation, virtually 100% of these devices fulfilled the certificate requirements. Two-fold advantage: The award of the certificate provides for trust among consumers and, in practical terms, enhances security.

## Tests according to the state of the art

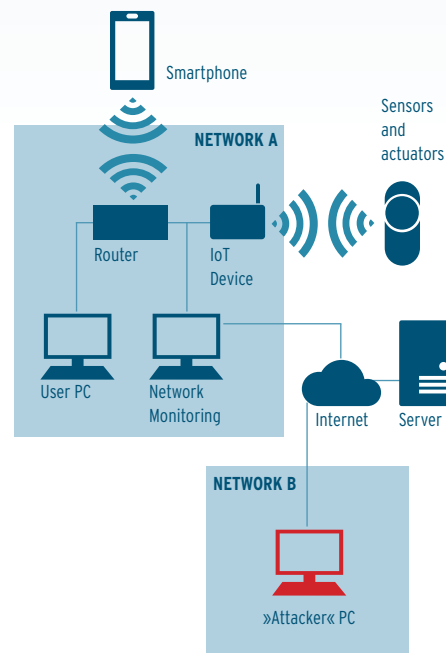
The tests developed according to the institute standard for practical attack scenarios are summarized in a test catalog consisting of more than 100 criteria and guaranteeing a comprehensive technical security evaluation of the IoT products considered for certification. The defined test criteria are aligned with the requirements of recognized organizations or standards in the field of IoT security, such as OWASP or ETSI EN 303 645, and even exceed these standards in virtually all areas.

Classification of the test criteria in three overall test areas:

- Application security
- Online and local communication
- Data security

## Leading manufacturers are already utilizing the advantages for their products

On the list of products bearing the „Approved IoT Product“ label are systems from internationally renowned manufacturers, including Deutsche Telekom®, Nuki®, Bosch®, MEDION® and many more companies.



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