

# BUGPROVE

# Product Security

for the Internet of Things

**BugProve**

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<https://bugprove.com/>

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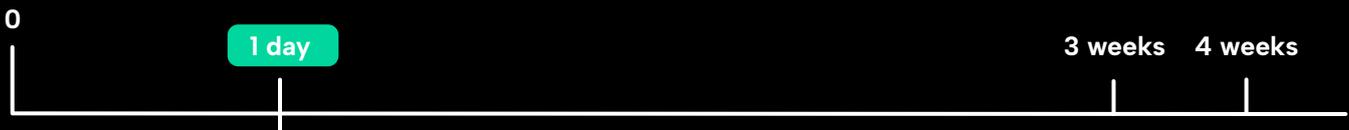
# BUGPROVE

While the application security domain already has several available tools and solutions (like SCA, SAST, or DAST), there is still no comprehensive, out-of-the-box platform to automate security tasks for IoT devices, especially not through their entire lifecycle. Supply chain security issues are even more difficult to tackle because of the layered nature of IoT software stacks.

We offer a tool for automated zero-day and advanced CVE discovery that allows security engineers to focus on more complex problems. The tool empowers cybersecurity professionals to discover common and zero-day vulnerabilities faster and more efficiently than ever before, which leads to accelerated security testing and helps you to make the most out of your value-added services.

## OUR PITCH

## HOW WE HELP



Manual Security Evaluation					
Binary extraction	Hardening configuration	Cryptographic keys and parameters	File system permissions	Hardware hacking	Dynamic analysis
3rd party components (SBOM)	Known vulnerabilities (CVEs)	System shell scripts	Binary reverse engineering		

**BUGPROVE**

**Save time and costs**  
**Resource Utilization & Extensive Analysis**

Manual security testing eats up engineering resources. **BugProve** saves you time to have a leaner and smoother security testing process.

## HOW WE HELP

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Our autonomous security testing saves you time and money as it automates the detection of critical vulnerabilities. We achieve this by pushing the boundaries of binary analysis with **integrated zero-day vulnerability discovery**. Our tool exposes security issues that are hidden in IoT products' 3rd party code as well, enabling you to **control supply chain cybersecurity risks** in a way that wasn't possible before.

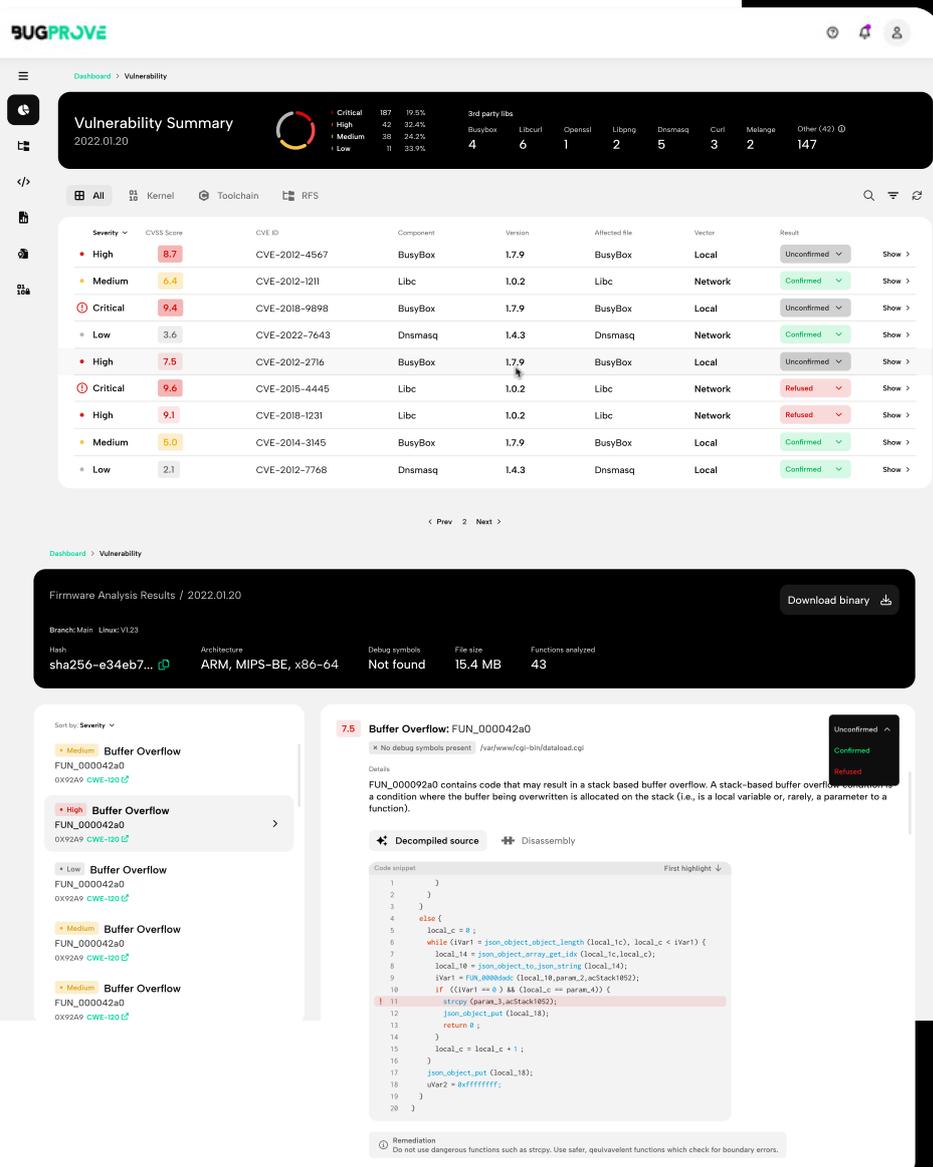
**Catching known vulnerabilities (CVEs)** and other security issues present in SDKs is an industry need, which is the cornerstone of upcoming IoT legislations. The **SBOM** is created automatically, highlighting known vulnerabilities for outdated components.

**Integrating BugProve into your testing process** will support the work of security engineers daily. Our tool reduces testing slots and security administrative tasks, while our remediation recommendations and **advanced reporting** support engineers each and every project.

Our **continuous monitoring solution** automatically monitors for new threats as new vulnerabilities are disclosed. At the same time, the **upcoming compliance** verification feature collects findings and noncompliances with the industry's most sought-after standards supporting you in fulfilling your customers' specific requirements.

BOOST SECURITY ENGINEERS' EFFICIENCY WITH  
**BUGPROVE'S** AUTOMATED FIRMWARE ANALYSIS

# WHAT IS OUR SECRET? UNIQUE PRODUCT CAPABILITIES



We analyze complete firmware binaries and support integrations with build pipelines based on popular tools like Buildroot and Yocto (OpenEmbedded). Our tool **can analyze entire embedded Linux firmware images, as well as individual ELF binaries**, mainstream embedded architectures like ARM, MIPS and x86-64

BugProve's scans provide an accurate, in-depth summary of **known CVEs** present in the components of your firmware. We also created a detailed dashboard to help you track these vulnerabilities at a glance and export **actionable reports** tailored to your needs. User-friendly UI makes navigating our tool a breeze, so you can stay focused on what matters the most: your product security.

## PROVEN TRACK RECORD

Using BugProve, vulnerabilities have already been found in the products of:

- ◆ Silicon Labs
- ◆ Honeywell
- ◆ Netgear
- ◆ Broadcom
- ◆ Asus

**All our scans run on firmware images and binaries, no source code is required:**

- ◆ advanced static and semi-dynamic analysis
- ◆ unique multi-binary taint analysis
- ◆ cryptographic analysis
- ◆ hardening and security configuration checks
- ◆ vulnerability **remediation**

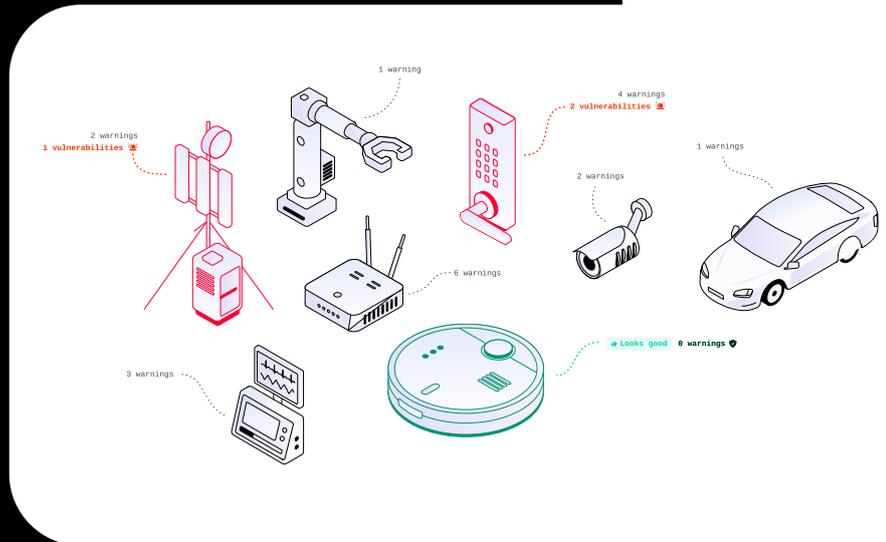
## OUR STORY

Founded in 2022, our mission is to restore stakeholder trust in embedded systems by helping IoT device manufacturers minimize security risks and improve their security posture.

The idea of BugProve dates back to the mid-2010s when the three of us worked together on embedded system security testing. It quickly became clear that the IoT sector was facing monumental challenges caused by the growing number of device vulnerabilities and malicious activities. This led us to create an automated solution to address various IoT security issues in the early stages of development, well before embedded devices are released to the market.

Eventually, Credo Ventures and Fiedler Capital – both prestigious CEE investment firms with a great track record – saw the potential in the idea. They provided the seed investment necessary to start the research and development activities in Budapest, Hungary.

We now have a dedicated team of 10+ experts with plans to expand to keep up with the growing interest surrounding our product.



**LEVEL UP YOUR  
IOT SECURITY!**