

# Intelligent fault testing



**beSTORM**

## The Ultimate Blackbox Testing Tool

beSTORM performs a comprehensive analysis, exposing security holes in products during the development process and after release, without requiring the source code.



Automatically discover security holes in your products and applications! Virtually every attack combination possible can be tested using an automated attack tool.



beSTORM detects application anomalies and alerts you about successful attacks. Security holes are found with no user intervention necessary.



**Beyond Security** is a leading global provider of security auditing solutions for networks and applications. Beyond Security's mission is to simplify and support efficient information security processes for its users: financial, federal and government institutes, service providers, enterprises and software vendors. For more information please visit: [www.beyondsecurity.com](http://www.beyondsecurity.com)

Comprehensive analysis, exposing security holes in  
your products during development and after release

# Main Features

- Innovative**  
beSTORM performs an exhaustive analysis to uncover new and unknown vulnerabilities in software products. This is different than older generation tools that use attack signatures or attempt to locate known vulnerabilities in products.
- Broad Range**  
Many of the common Internet protocols can be tested by beSTORM – even complex proprietary protocols are supported.
- Attack Prioritization**  
Special attack prioritizing algorithms allow beSTORM to start with the attacks most likely to succeed, depending on the specific protocol that is audited. This saves considerable time during the audit process and highlights the most important problems, first.
- Protocol Compliance**  
beSTORM is able to convert the protocol standard text to automated set of test by converting the BNF description used in technical RFC papers to attack language. This ensures that the entire functionality of the system is checked, and enables to quickly find bugs that otherwise surface only months or years after the product is released to the market.
- Scaling**  
beSTORM is extremely scalable, with the ability to use multiple processors or multiple machines to parallelize the audit and substantially reduce the testing duration.
- Comprehensive Analysis**  
beSTORM detects vulnerabilities by attaching to the audited process and detecting even the slightest anomalies. By doing so, beSTORM can find attacks as subtle as 'off-by-one' attacks, as well as buffer overflow attacks that do not crash the application.
- Report Accuracy**  
beSTORM checks the application externally, by actually triggering the attacks. Therefore, a vulnerability is reported only if an actual attack has been successful, for example a buffer overflow has been triggered. Simply put, beSTORM emulates an attacker – so if the attacker can't to the attack, beSTORM won't report it, effectively reducing the number of false positives.
- Extensibility**  
beSTORM tests the protocol rather than the product, and therefore can be used to test extremely complicated products with a large code base.
- Flexibility**  
beSTORM's protocol analysis can be easily extended to support your proprietary protocol.
- Language Independent**  
beSTORM tests the binary application, and is therefore completely indifferent to the programming language or system libraries used. beSTORM will report the exact interaction that triggers the vulnerability, and the programmers can now debug the application with whatever development environment they wish to see what caused the fault.

## Screenshots

The screenshots display the beSTORM application interface. The left window shows the 'Project Settings' and 'Attack Vector' configuration screens. The right window shows the 'Test Information' and 'Test Progress' screens, including a graph of CPU usage and a list of detected vulnerabilities.

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