



**SOLUTIONS
COMMUNICANTES
SECURISEES**
PÔLE DE COMPETITIVITE MONDIAL

VAMPIRE

FUTURE INTERNET VULNERABILITY ASSESSMENT, MONITORING AND PREVENTION

> OBJECTIVES

VAMPIRE is a collaborative project which aims at providing the conceptual approaches and the practical solutions to detect and manage vulnerabilities in the current and future Internet.

The project targets the development of advanced vulnerability discovery methods based on :

- smart fault injection -fuzzing-
- stateful and automated fuzzing and
- passive host-level attack detection.

The project particularly targets IMS and VoIP services and infrastructures.

The major research activities undertaken in the VAMPIRE project will be to build a theory of fuzzing and vulnerability monitoring capable to provide both quantitative and qualitative indicators, as well as to provide a structured approach capable to deal efficiently with unknown applications/services.



> APPLICATIONS

- Testing web applications for parameter injection vulnerabilities,
- Reducing the costs of vulnerability discovery in the VoIP world,
- Fuzz Voice Over IP, not only SIP,
- Identify real-world exploits and malicious VoIP activities.

> DELIVERABLES

- Vulnerability studies for Web 2.0 and VoIP,
- A Book on VoIP vulnerabilities,
- An IETF Draft,
- Large scale experiments.



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> TECHNOLOGICAL INNOVATIONS

- Several tools to discover vulnerabilities,
- PAPAS is available as a free online service,
- FlexSIP, a flexible SIP honeypot integrated with Dionaea,
- SGNET SIP, an extended SGNET honeypot with full UDP support and a large deployment.

> TARGET MARKETS

- Any company with a WebSite (hundreds of companies around the world already used our service),
- VoIP companies and developers,
- Researchers in System Security,
- Pentesters.

> PARTERSHIP

- Project leader : INRIA



- Industrial partners : SYMANTEC, France Telecom



symantec™



france telecom

- Research partner : EURECOM



> PROJECT FUNDED BY

