

# Infopulse Conducts Security Audit of Embedded Solutions for Bosch



Bosch reduces business risks and improves software quality of the products

## BUSINESS CHALLENGE

Conduct an independent comprehensive security audit to ensure the security of different client-server and embedded solutions.

## SOLUTION

The whole scope of security services, namely penetration tests and deep technical security analysis of the physical security management solutions and the devices' embedded software.

## BUSINESS VALUE

Comprehensive reports on security risks and vulnerabilities with strategical and tactical recommendations on mitigating threats and improving security.

## STANDARDS & TOOLS:

NIST SP800-115

PTES

OWASP

EC-Council

ISF SoGP

BSI IT-Grundschutz

## CLIENT BACKGROUND

[Bosch Security Systems](#) is a leading global supplier of security, safety, and communications products and systems. The product portfolio includes video surveillance, intrusion detection, fire detection and voice evacuation systems as well as access control and management systems. Bosch Security Systems develops and manufactures its products in its own plants in Europe, Americas and Asia and has distribution partners in more than 150 countries.

## CUSTOMER QUOTE

” *The Bosch brand is a global leader of quality and innovations. Our product philosophy is to build reliable and trustworthy solutions with adherence to the highest industry standards. By making valuable contributions to the development of our products, Infopulse has proven to be a productive, efficient and reliable partner for Bosch Security Systems. We would like to express sincere appreciation for the quality of services delivered by Infopulse security team.*

**Harald Schoengen, Senior Manager  
at Bosch Security Systems**

## BUSINESS CHALLENGE

Bosch Security Systems has been a long-term customer of Infopulse. Since 2007, the two companies implemented many successful projects together. This time, our client asked us to conduct an independent comprehensive security audit of different client-server and embedded solutions.

## SOLUTION

### Types of services:

- security assessment
- threat and risk analysis
- penetration testing

Infopulse developed clear and transparent rules of engagement and full specifications of the technical security assessments. Upon approving the security assessment plan with the client, Infopulse implemented the whole scope of the security project, namely penetration tests and deep technical security analysis of the physical security management solutions and the devices' embedded software, i.e., application binaries, configurations, data, traffic, protocols, interfaces, encryption, databases, etc. All actions were conducted with the formal compliance with the customer's internal requirements and external regulations.

### Standards and tools

The project was conducted with adherence to the world's best practices – NIST SP800-115, PTES, OWASP, EC-Council, ISF SoGP, BSI IT-Grundschutz.

Infopulse used numerous proprietary automated and manual tools, including reconnaissance, enumeration and scanning tools, network traffic analyzers, sniffing tools, web, and TCP debug proxies, database vulnerability analysis tools, cryptanalysis tools, binary analyzers, and debuggers, etc.

## BUSINESS VALUE

The customer received comprehensive reports on security risks and vulnerabilities with strategical and tactical recommendations on mitigating threats and improving security. The following benefits were provided:

- Reduced security costs
- Dramatically reduced business risks
- Improved software quality of the products to be delivered to the end-customers worldwide.



# About Infopulse

Infopulse, part of Nordic IT group EVERY A/S, is an international vendor of services in the areas of Software R&D, Application Management, Cloud & IT Operations, and Cybersecurity to SMEs and Fortune 100 companies across the globe. Founded in 1991, the company has a team of over 1,900 professionals and is represented in 10 countries across Western and Eastern Europe. Infopulse is trusted by many established brands, such as BICS, Bosch, British American Tobacco, Citrix, Credit Agricole, ING Bank, Gorenje, METRO Cash & Carry, Microsoft, Mondelēz, OTP Bank, Raiffeisen Bank Aval, SAP, UkrSibbank BNP Paribas Group, VEON, Vodafone, and others. For more information, please visit [www.infopulse.com](http://www.infopulse.com).

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