



## Software for World-Leading Video Surveillance Systems

Developing reliable software for world-leading security systems since 2007

Industry: Manufacturing

Location: Germany

Employees: 10,000+

Website: [www.boschsecurity.com](http://www.boschsecurity.com)



# Software for World-Leading Video Surveillance Systems

## Business Challenge

Develop a CCTV and video surveillance system; adjust it for the topmost European customers. Ensure application stability under heavy loading.

## Solution

Developed the software with a rich UI, camera controls, and live video playback for tablets and mobile devices. The solution covers a wide range of platforms and all aspects of Security & Access Management.

## Business Value

Enabled Bosch with high-quality products that are now being delivered to thousands of customers worldwide. Reduced time-to-market and costs. Provided technology expertise, which the customer didn't have internally.

### Technologies:

-  C++
-  WPF
-  COM
-  STL
-  H.264 video codecs

-  C#
-  WCF
-  iOS
-  Boost
-  FFMPEG

-  NET 3.5, NET 4.0
-  MFC Sockets
-  Android, Android NDK
-  SQL
-  Rhino Mocks

-  WinForms
-  Qt
-  HTTP
-  Sockets
-  OxyPlot

## Client Background

Bosch Security and Safety 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 and Safety Systems develops and manufactures its products in its own plants in Europe, Americas and Asia and has distribution partners in more than 150 countries.

## Business Challenge

Bosch Security Systems approached Infopulse with the need to establish a long-term, reliable and permanent partnership. Having growing demands in the development pipeline and end-customer requests, they were looking for a flexible and client-oriented partner in order to optimize their cost structure.

Bosch required to develop a CCTV and video surveillance system and adjust it for the topmost European customers. Application stability under heavy loading was among the key requirements.

## Solution

Infopulse developed the software for a wide range of platforms covering all aspects of Security & Access Management, such as access control, alarm, intrusion detection, fire detection, evacuation etc.

To ensure superior quality, Test Lab was set up to perform 24/7 end-to-end solution testing from hardware drivers to business applications.

The solution has a rich UI, camera controls, and live video playback for tablets and mobile devices.

### Types of services

- Software Development Services (C++, .NET, and Mobile)
- Quality Control and Assurance Services
- Sustaining and maintaining of legacy software systems
- Creation of system images for various platforms

# Technologies



C++



C#



NET 3.5 NET 4.0



WinForms



WPF



WCF



MFC Sockets



QT



COM



iOS



Android, Android NDK



HTTP



STL



Boost



SQL



Sockets



H.264 video codecs



FFMPEG



Rhino Mocks



OxyPlot

## Business Value

- Enabled Bosch with high-quality video surveillance products that are now being delivered to thousands of customers worldwide: airports, train stations, banks, hospitals, power plants, stadiums, theaters, universities etc.
- Reduced time-to-market and costs
- Provided technology expertise, which the customer didn't have internally
- Ensured proactive support of the client's requirements



### Customer quote

Infopulse has proven to be the reliable partner we can trust. The software development teams have already done a great contribution to the launch of state-of-the-art Bosch security software systems and we are looking forward to further cooperation with these talented and highly motivated people.

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### Dr. Sabine Berninger

Director Engineering Video  
Management Systems



## About Infopulse

Infopulse, part of the leading Nordic digital services company Tietoevry, 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 2,300 professionals and is represented in 7 countries across Europe and the Americas.

Infopulse is trusted by many established brands, such as BICS, Bosch, British American Tobacco, Credit Agricole, Delta Wilmar, ING Bank, Microsoft, Offshore Norge, OLX Group, OTP Bank, SAP, UkrSibbank BNP Paribas Group, Vodafone, Zeppelin Group, and others.

For more information, please visit [www.infopulse.com](http://www.infopulse.com)

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