

# Protecting your investment, now and in the future

Changi Airport, Singapore



## Selected References

1. Dubai Airport T3/C2, UAE
2. O<sub>2</sub>-Arena, Berlin, Germany
3. Metro, Sao Paulo, Brazil
4. Erie Water Works, USA
5. Special Economic Zone Tomsk, Russia

## Thousands of installations prove the effectiveness of BIS

BIS has been in the market since 2002. In that time, we have installed over 3,000 systems worldwide, with over 300 new systems going live every year. Today, in excess of 10,000 subsystems and more than five million detectors and cameras are connected using BIS – and that number keeps growing.

Thanks to the platform's outstanding efficiency and extremely low down-time, BIS is the solution of choice for many mission-critical applications in key infrastructure and service applications including airports, train stations, power plants, offshore platforms, hospitals, military sites and prisons. Because BIS has an extremely high availability, additional fault tolerance and disaster recovery can be delivered through strategic partners like Stratus and Marathon.

## Bosch Security Systems

To learn more about our product offering, please visit [www.boschsecurity.com](http://www.boschsecurity.com)

## The future-proof choice

BIS protects your investment by being open, flexible and fully backward compatible. We have an unbroken migration path stretching back to 2002, meaning that you will always be able to use all elements of your system. In addition, our annual upgrades will always support the latest technologies, such as advanced cameras or biometrics.

BIS can be ordered and extended anytime, starting from our basic fire visualization or simple access control packages, right through to fully customized systems with ten or more different subsystems – all controlled through one unified user interface.

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# One Building Management Platform is all you'll ever need

## Introducing the Bosch Building Integration System



When designing comprehensive security and safety systems, both planners and building operators often choose to mix and match fire protection, public address, access control, video surveillance and management systems from multiple vendors.

Sometimes this is for budget reasons, sometimes to take advantage of different functionalities or to reduce dependence on a single vendor. Whatever the reasons, designing the best possible security concept can easily result in unwanted complexity and a lack of integration and transparency. It also increases training costs and makes it harder to set up protocols and permissions. At the same time, data entry and management becomes a time-intensive, laborious and error-prone process. These are precisely the sorts of challenges that the Bosch Building Integration System (BIS) was designed to solve.

By bringing all your building systems together on a single platform – regardless of software, hardware or technology – BIS enables your organization to:

- ▶ Connect and integrate an extensive range of Bosch and 3rd party security and safety products for maximum design flexibility
- ▶ Correlate and verify events and data from all subsystems on a single user interface
- ▶ Visualize and create situational awareness anytime and anywhere for faster, more accurate response times
- ▶ Support operators with rules-based workflows to streamline processes
- ▶ Easily access post-event reporting and forensic analysis to help in future process optimization
- ▶ Protect your investment by being open, flexible and always backward compatible for maximum return on investment

# Taking full control of your security and safety systems

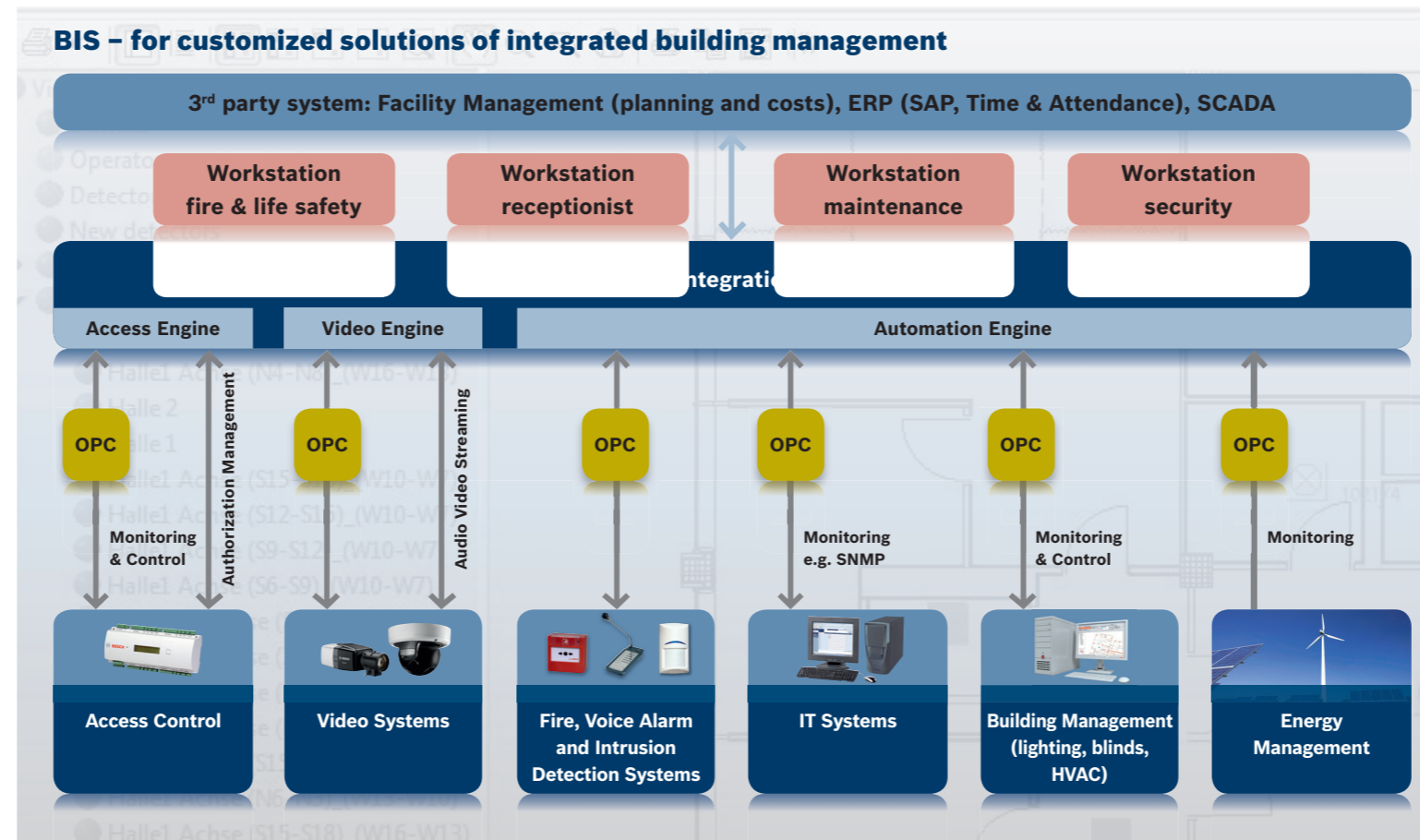
24/7/365 automated reporting

## Genuine integration provides a seamless experience

The key feature of the Building Integration System (BIS) platform is its ability to truly integrate all technologies – both Bosch and 3<sup>rd</sup> party products and systems. Using open and standardized technologies such as OPC, ONVIF, HTML and JavaScript, XML and AutoCAD®, the modular software system can be used to manage a wide variety of solutions from different vendors.

## BIS provides connections to monitor or trigger all of the following subsystems:

- ▶ Intrusion alarm systems
- ▶ Fire alarm systems
- ▶ Access control systems
- ▶ Video surveillance and recording systems
- ▶ Evacuation and public address systems
- ▶ Communications systems, gate and door control
- ▶ Building automation (e.g. heating, air conditioning and ventilation)



## Ultimate flexibility, whichever vendors you choose

To take account of the way building systems develop over time, we have designed BIS on a modular basis. This allows you to add or remove single elements or

even create new combinations, as your needs dictate. BIS fully supports all key Bosch products and can be effortlessly integrated with all major software and hardware 3<sup>rd</sup> party components.

## Get the information you need, when you need it

The BIS platform is designed to support all your processes, at all times, from a single intuitive user interface. From reporting to automated responses and situational awareness BIS gives you a complete holistic overview of your entire building systems landscape. BIS offers your organization a comprehensive range of measurable and business-critical benefits. Here are just some of the system's highlights:

## Automated and verified responses in any situation save time and improve efficiency

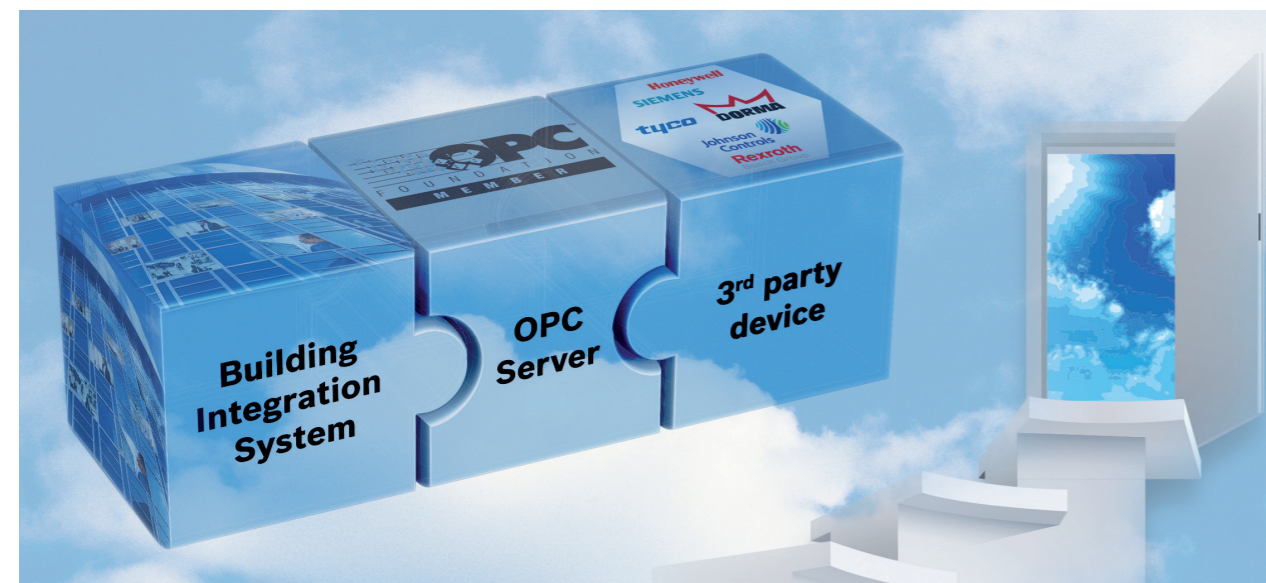
- ▶ BIS automatically connects and cross-references multiple events from multiple disparate systems in real-time
- ▶ High performance even with many hundreds of events per second on a constant load
- ▶ Verifies false alarms before calling first responders, eliminating time wasted following up false alarms
- ▶ Makes the best decision in mission-critical situations, reducing the risk of human error
- ▶ Bosch IVA (Intelligent Video Analysis) technology supports your security personnel with a comprehensive and efficient event detection and alarm system. As an example, BIS can trigger a dedicated voice messaging to guide a crowd of people, stuck in front of an emergency door and detected by IVA.

## Clearly visualized situational awareness – any time, any place – improves response times and helps with post-event analysis

- ▶ Supports operators with rules-based workflows, including escalation scenarios, threat levels and readiness conditions fulfilling any kind of company security policies
- ▶ In case of alarm, exact step-by-step instructions are displayed in a workflow, including live video images and online data from other systems

## Rapid post-event reporting and forensic analysis for quicker investigations and more effective continuous improvement processes

- ▶ Instant reporting drawn from millions of events stored in an SQL database
- ▶ Customizable reports and data-exports for urgent, ad-hoc information needs
- ▶ Finds the root cause of an event within seconds and logs details of every event, as well as any action taken



The platform's open architecture supports all the main industry standards, providing seamless digital information and control across all building operational management systems:

- ▶ Commonly used operating systems to run on any standard server and workstation hardware
- ▶ SQL for database systems
- ▶ OPC for connecting subsystems
- ▶ ACAD for building and site maps
- ▶ HTML and JavaScript for UI customization
- ▶ Wiegand and RS 485 for reader connection
- ▶ Onvif for video integration