

BIS - Automation Engine (AUE) 5.0



Fire protection systems today are most often required by law, intrusion detection is crucial to business, and the monitoring of HVAC and other vital building systems is essential to keeping premises running. Automation Engine provides these connections to vital building systems: to monitor, control and to check for malfunctions.

Integration of the Bosch Video Management System (BVMS)

BIS coupled with BVMS, gives you both the flexibility of BIS in connecting multiple subsystems - Fire, Intrusion, Public Address, Access Control systems, Building Management - and the powerful video control environment of the Bosch Video Management System. Example scenario: BIS gains state-of-the-art video management capability:

A BVMS alarm is triggered by an unattended object. BIS initiates the evacuation of the affected area through the public address (PA) system and manages the escape route by locking and unlocking the necessary doors. All measures taken are logged by BIS for later forensic analysis.

Example scenario: A BVMS installation gains PSIM functionality.

A BVMS operator activates an input button while monitoring potentially dangerous activity in a live video stream. The input triggers predefined responses in BIS: a public address announcement and the locking or unlocking of doors in the area of the camera. With the trigger, additional parameters, such

- ▶ Alarm and security management system for fire and intrusion panels
- ▶ Integration of public address and voice alarm systems for efficient evacuation of buildings
- ▶ Close monitoring of other vital systems, such as HVAC, building automation and energy consumption
- ▶ Easy integration and configuration of subsystems by adherence to worldwide OPC DA/AE and OPC UA standards
- ▶ Automation of emergency responses to subsystem alarms through user-definable rules

as location and required emergency procedures, are forwarded to the BIS operator. All the while, BIS remains transparent to the BVMS operator; he works only in his usual BVMS environment.

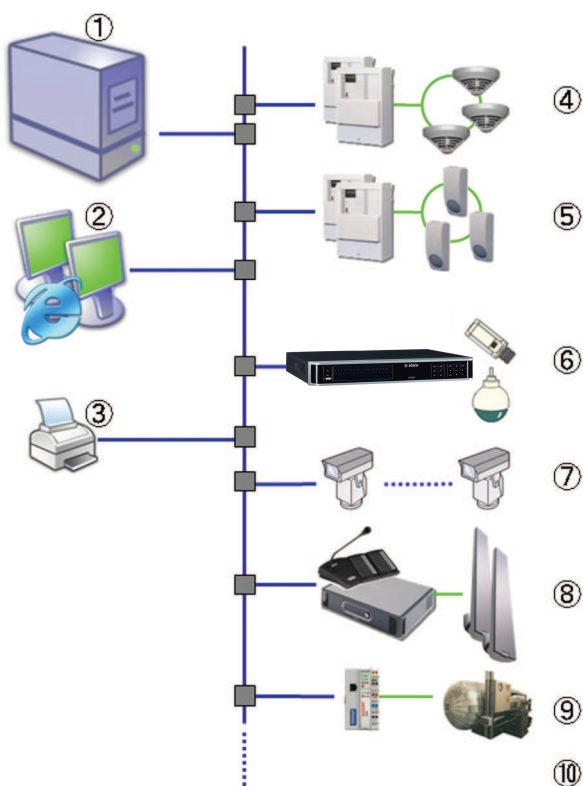
System overview

The Automation Engine (AUE) is one of the main modules in the BIS family. It runs either as the only engine or in combination with the other engines. Its main function is to connect, monitor and control security and safety systems, usually fire and intrusion panels.

The Automation Engine uses all the general features of BIS such as display of interactive location maps and action plans. Alarms received can then be displayed along with all necessary information and customized action buttons.

Commands can be automated by user-defined rules in the BIS state machine (see BIS overview and basic package), or invoked manually by right-clicking detector icons inside a location map.

The Automation Engine supports OPC DA/AE for legacy integrations as well as OPC UA (Unified Architecture) for modern, high-performance and high-security integrations.



typical settings for Bosch alarm panels and commands to operate them through BIS.

Automation Engine basic package

The AUE basic package contains the license for 500 detector points. This is usually sufficient for smaller systems.

Functions

The Automation Engine has the following functions in addition to the standard BIS features:

- Provides the connection, monitoring and control of Bosch or 3rd party security systems, fire and intrusion panels, public address and more by OPC interface.
- Provides the connection, monitoring and control of Bosch or 3rd party HVAC, lighting control and energy management by OPC interface.

Technical specifications

See the specifications for the respective version of the BIS Basic Package.

Ordering information

BIS-FAUE-BPA50 Basic license

Basic license for BIS Automation Engine
Order number **BIS-FAUE-BPA50 | F.01U.415.278**

BIS-FGEN-BVMS50 License for Bosch VMS connectivity

License for the connection between 1 BIS and 1 BVMS installation
Order number **BIS-FGEN-BVMS50 | F.01U.415.280**

BIS-XAUE-100P50 License for 100 detector points

License for 100 detector points
Order number **BIS-XAUE-100P50 | F.01U.415.296**

BIS-XAUE-1KP50 License for 1000 detector points

License for 1,000 detector points
Order number **BIS-XAUE-1KP50 | F.01U.415.297**

Pos.	Description
1	BIS Server with Automation Engine SW. Multiple servers are also possible.
2	Workstations for security operators
3	Alarm printer
4	Fire panels (e.g. FPA 5000/1200, AVENAR panels)
5	Intrusion panels (e.g. MPA 5000, B/G Series)
6	Digital video recorder (e.g. Divar IP)
7	IP cameras
8	Public address evacuation (e.g. Praesideo, Praesensa)
9	Building automation (e.g. Rexroth PLC)
10	Others

Use the BIS configuration program to define how BIS interacts with the subsystems. The Automation Engine contains a template configuration which includes

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