

BIS - Automation Engine (AUE) 4.8



Fire protection systems today are most often required by law, intrusion detection is crucial, and the monitoring of vital building systems like HVAC is essential to keeping an enterprise running. This software provides some of the key functions of building integration - to connect to vital building systems, to monitor, control and to check for malfunctions.

Capitalizing on all the common BIS features together with its own special functions, the Automation Engine allows system integrators to tailor an alarm and security management system to specific requirements.

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. However, it is also possible to display live images in action plans or miscellaneous documents. For more complex video applications, we advise the use of the Video Engine or Bosch VMS.

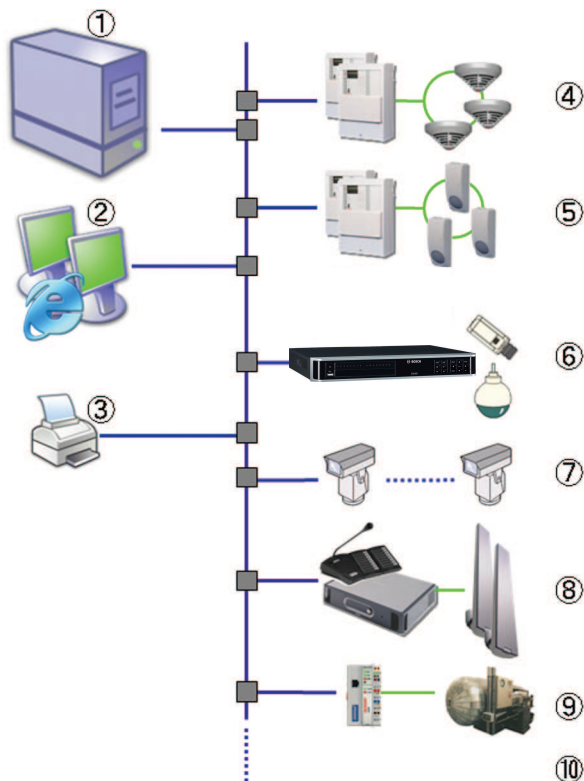
The Automation Engine uses all the general features of BIS such as display of interactive location maps and action plans. Alarms received can then be displayed along with all necessary information and customized action buttons.

- ▶ Highly sophisticated alarm and security management system for fire and intrusion panels
- ▶ Integration of public address and voice alarm systems for efficient evacuation of buildings
- ▶ Detailed monitoring of other vital systems, such as HVAC, building automation or energy management throughout a site
- ▶ Easy integration and configuration of subsystems through consistent use of world-wide OPC DA/AE and OPC UA standards
- ▶ Automation of emergency responses to subsystem alarms through user-definable rules

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.

Like BIS and the other engines, the Automation Engine runs on a standard PC with a Windows operating system. The platform can be a single computer, a client-server structure with a central server and client workstations, or a federated system with multiple BIS servers, each with their own clients.

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.



| 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, Paviro) |
| 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 typical settings for Bosch alarm panels and commands

to operate them through BIS. The specific configurations of these panels can easily be imported into the BIS configuration.

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.

Certifications and approvals

Installation/configuration notes

- The Engine can be ordered in one of two ways:
- as an integral part of an initial BIS configuration, in which case it is ordered along with a BIS basic license
 - as an enhancement to an existing BIS configuration

Technical specifications

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

Ordering information

BIS-FAUE-BPA48 Basic license
License for the BIS Automation Engine (AUE) within BIS
Order number **BIS-FAUE-BPA48 | F.01U.386.758**

BIS-XAUE-100P48 License for 100 detector points
License for 100 additional BIS AUE detector points
Order number **BIS-XAUE-100P48 | F.01U.386.759**

BIS-XAUE-1KP48 License for 1,000 detector points
License for 1000 additional BIS AUE detector points
Order number **BIS-XAUE-1KP48 | F.01U.386.760**

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