BOSCH
Invented for life

BIS - Automation Engine 2.3

- ▶ **Highly sophisticated alarm and security management system for fire and intrusion panels**
- ▶ **Detailed monitoring of other vital system like HVAC all over an enterprise**
- ▶ **Easy integration and configuration of subsystems through consistent use of world wide open IT standards**
- ▶ **Seamless integration of subsystem with definable linked associations, triggers and controls**
- ▶ **Programmable operator groups detail user rights for displaying information or controlling systems**

In our modern world, fire systems are often required by law, intrusion detection is often found necessary and the monitoring of vital building systems like HVAC are all essential to keeping an enterprise running. Therefore the Automation Engine provides one of the main functions that BIS was designed for, to connect to vital building systems, to monitor, control and to check for malfunctions.

Using all the common BIS features, together with its own specific functions, the Automation Engine allows the user to tailor an alarm and security management system which meets all their requirements.
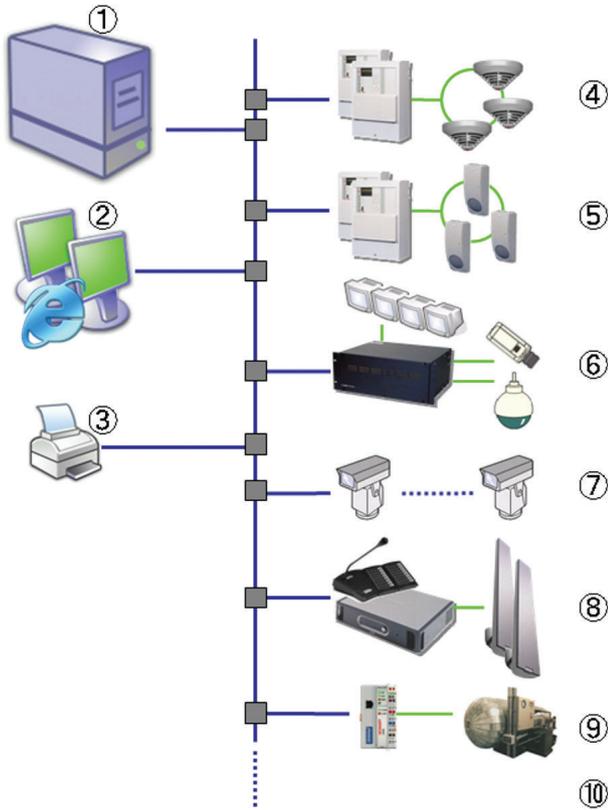
System Overview

The Automation Engine (AUE) is one of the main products in the BIS family. It runs as a stand-alone system or can be operated together with the other engines (video or access).

As can be seen from the above description, its main function is to connect, monitor and control security systems (fire or intrusion panels). However, it is also possible to display live images in action plans or miscellaneous documents. For more complicated video applications, we advise the use of the Video Engine.

The Automation Engine uses all the general features of BIS such as display of location maps or action plans. Received alarms are visualized with the defined pieces of information or trigger configured control functions.

Specific control commands make it easier to operate security systems (panels). The commands can be carried out automatically in the BIS state machine (see BIS general), or manually using detector icons inside a location map.

Like BIS and the other engines, the Automation Engine runs on a standard PC with a 32-bit Windows operating system (2003 Server or XP). This can be a single computer or a client-server structure with central server and workstations. BIS-AUE workstations support Windows Vista as well (since V2.2).

Pos.	Description
1	Central BIS Server with Automation Engine SW
2	Workstations
3	Printer
4	Fire panels
5	Intrusion panels
6	LTC / Allegiant matrix switches
7	IP cameras
8	Public address evacuation
9	Automation monitoring
10	others

You can use the BIS configuration program contained in the scope of delivery to specify the function of the system and how it interacts with the subsystems. The Automation Engine delivers a basic configuration which contains pre-defined common settings to Bosch control panels including the control commands.
The specific configurations of these panels could be easily imported into the BIS configuration.

Ordering instructions

If you are placing a first order for the Automation Engine and do not have a BIS already installed, you will definitely need the BIS basic license (BIS basic package software). This contains the dongle key which you will require. Please order this item as well.

If you already have a BIS installed (in connection with the Video Engine, for example), you already have a dongle key. In this case, you add the Automation Engine authorizations to your system by exchanging the license file. In addition to the Automation Engine, also order the "Re-fitting of BIS features" item corresponding to the BIS version running, stating the system's serial number. You will find the serial number printed on the dongle key.

Automation Engine basic package

The Automation Engine basic package includes the functionality as described under features and system overview. If you are reinstalling the system, you must also order the BIS basic package that contains the dongle key in order to have the BIS basic license.

The AUE basic package contains the license for additional 500 Bosch detector points. These are sufficient for smaller systems.

Please note that the BIS basic package already contains an OPC server license. This can be used to connect a fire panel or intrusion panel to the AUE. Licenses for additional subsystems are activated via the item "Add. OPC server license" in the BIS basic package.

Functions

In addition to the common BIS features, the Automation Engine also has the following functions:

- Provides the connection, monitoring and controlling of Bosch or 3rd party security systems, fire and intrusion panels, public address and so on by OPC interface
- Provides Bosch type LTC/Allegiant video matrices to be connected via OPC for control purposes, video signals can be connected via video-web servers such as Bosch Videojet to be displayed in the BIS user interface
- Provides analog cameras to be connected via video-web servers and the video images to be displayed in the user interface
- Provides IP cameras to be connected and the video images to be displayed in the user interface
- Provides OPC-compliant building automation systems (HVAC, lighting control and energy management) to be connected and monitored for malfunction
- Online Help

Accessories for Automation Engine

The features listed below can be added to the BIS Automation Engine to meet customer requirements.

N x 100 3rd party detector points

Extends the number of 3rd party detector points to be handled by BIS in steps of 100 for the entire system in connection with the supplementary Automation Engine package. 3rd party detector points are the peripherals from 3rd party subsystems from external suppliers of security or automation systems.

N x 1000 3rd party detector points

Extends the number of 3rd party detector points to be handled by BIS in steps of 1,000 for the entire system in connection with the supplementary Automation Engine package.

N x 10,000 3rd party detector points

Extends the number of 3rd party detector points to be handled by BIS in steps of 10,000 for the entire system in connection with the supplementary Automation Engine package.

OPC6600 500 panel upgrade

The Automation Engine supports the connection of D6100/D6600 alarm receivers. Per receiver is one OPC license required. AUE supports per default 500 receiver spanning panels/accounts connected to them. With this option you may extend the number of accounts in steps of 500. Please refer also to the receiver's maximum connections.

OPC server IST

OPC server for 3rd party subsystems which have already been developed and approved by Bosch Security Systems, Ottobrunn, and which are to be used with BIS. Existing OPC servers upon request The required type must be mentioned in conjunction with the order of this position. Clarification required with Bosch Security Systems, Ottobrunn.

Development of project-specific OPC servers

Development of a project-specific interface (OPC server) to connect 3rd party subsystem to BIS. Position includes clarification with the subsystem manufacturer and implementation. Specifications with a functional description of the interface are required. These products are always developed from scratch. Clarification required with Bosch Security Systems, Ottobrunn.

Parts Included

Qty.	components
1	License for 500 Bosch detector points

Ordering Information

The Automation Engine Basic package and the belonging software options listed below can be ordered with one of the BIS Basic packages when starting with a new system or together with one of the re-fitting items when extending an existing system. The software options can be used for re-fitting an older BIS 2.x as well.

Ordering Information

AUE basic package	**BIS-AUE-BPA**
Software Options	
N x 100 3rd party detector points	**BIS-AUE-P100**
N x 1.000 3rd party detector points	**BIS-AUE-P1K**
N x 10.000 3rd party detector points	**BIS-AUE-P10K**
OPC6600 500 panel upgrade	**BIS-SEE-AC500**
OPC server IST	**BIS-OPC-APPLIC**
Development of project-specific OPC servers	**BIS-OPC-DEVELOP**