

# Building Integration System - Automation Engine

The Automation Engine –  
The central security and alarm management



Security Systems



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## Building Integration System - Automation Engine

### What is BIS Automation Engine ?

- It is one of the central software modules of the Building Integration System
- It is “just” a license inside the entire BIS system
- The installable software you got with BIS installation CD
- It is the frontend for Bosch fire and intrusion systems, public address and 3<sup>rd</sup> party systems
- It is a sophisticated alarm and security management system



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## Building Integration System - Automation Engine

# What is BIS Automation Engine ?

→ It offers solutions to monitor and control

- Bosch fire and intrusion panels
  - UGM 2020
  - UEZ 2000
  - BZ 500
  - NZ 300
- Bosch Praesideo public address
- Bosch Alphadesk paging
- D6600 alarm receiver
- Any OPC compliant 3<sup>rd</sup> party system supporting AE- and/or DA-standard 2.x



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# Automation Engine meets your requirements

- BIS Automation Engine is designed modular
- It uses all common BIS features, such as location maps, action plans, divisions and much more
- You extend seamlessly by licensing number of operators or subsystems and detector points



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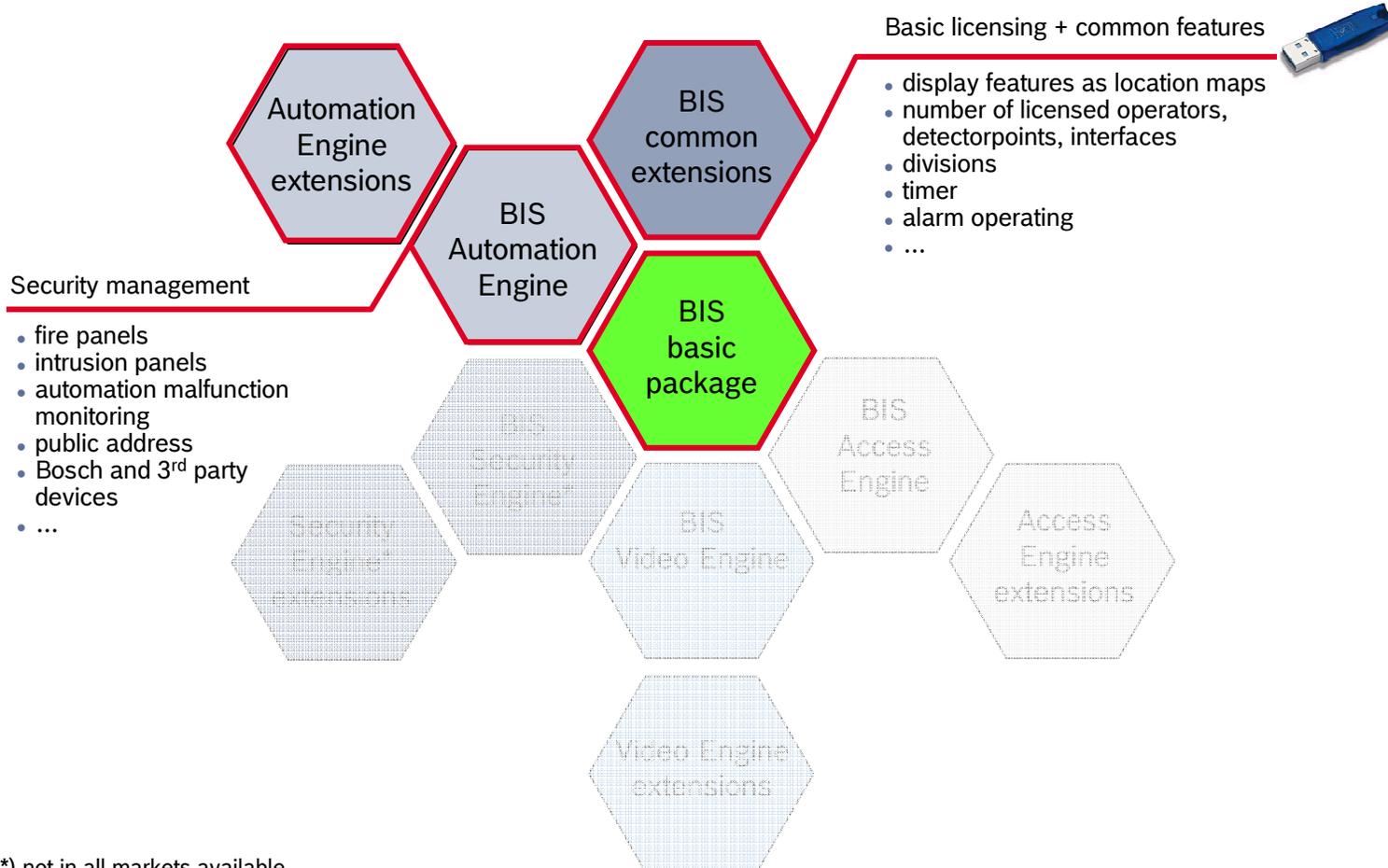
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## The system structure



\*) not in all markets available

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## The BIS user interface with Automation Engine

The screenshot displays the BOSCH Building Integration System interface. At the top, a table lists alarm messages with columns for Status, Current condition, Alarm condition, Address, Time, Location, Prio, and Operator. Below the table, a navigation pane on the left shows a tree view of devices and locations. The main area features a location map with various rooms and devices. On the right, a detailed view of an alarm is shown, including its address, location, description, and alarm time.

Status	Current condition	Alarm condition	Address	Time	Location	Prio	Operator
ACCEPTED	Ext-Fire (TU)	Ext-Fire (TU)	virtuell.UEZ2000.1000	5/24/2006 3:34:06 PM	BIS.Bosch Headquarter.Meeting Room 01	2	1
ACCEPTED	Ext-Fire (TU)	Ext-Fire (TU)	virtuell.UEZ2000.1001	5/24/2006 3:34:12 PM	BIS.Bosch Headquarter.Meeting Room 02	2	1
ACCEPTED	Ext.-Intrusion (TU)	Ext.-Intrusion (TU)	virtuell.UEZ2000 Intrusion.3000	5/24/2006 3:34:19 PM	BIS.Bosch Headquarter.Entrance hall	5	1
ACCEPTED	Ext.-Intrusion (TU)	Ext.-Intrusion (TU)	virtuell.UEZ2000 Intrusion.3001	5/24/2006 3:34:25 PM	BIS.Bosch Headquarter.Meeting Room 02	5	1

Total: 4    New: 0    Workflow: 0    Accepted: 4    Accepted at this workstation: 4

Location graphic

Ext.-Intrusion (TU)

Address	virtuell.UEZ2000 Intrusion.3000
Location	BIS Bosch Headquarter Entrance hall
Description	
Alarm time	Wednesday, May 24, 2006 3:34:19 PM

message queue with all necessary information and up to 5000 alarms

list of individual documents available per alarm state

message details

display container with location map, action plan, device overview and other useful documents

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## Building Integration System - Automation Engine

# The world of central alarm management

- Operate on fire alarms or intrusion events
- Re-act immediately on malfunction in any connected system
- Monitor for high temperature or pressure in automation system and trigger the corresponding alarm
- Be informed by action plan and location map and contact the right intervention task force
- Re-act immediately on phone based information, such as bomb threats or accidents, using the operator alarm feature
- See detailed detector address, alarm location, event state, timestamp, corresponding location map with animated icons
- ...



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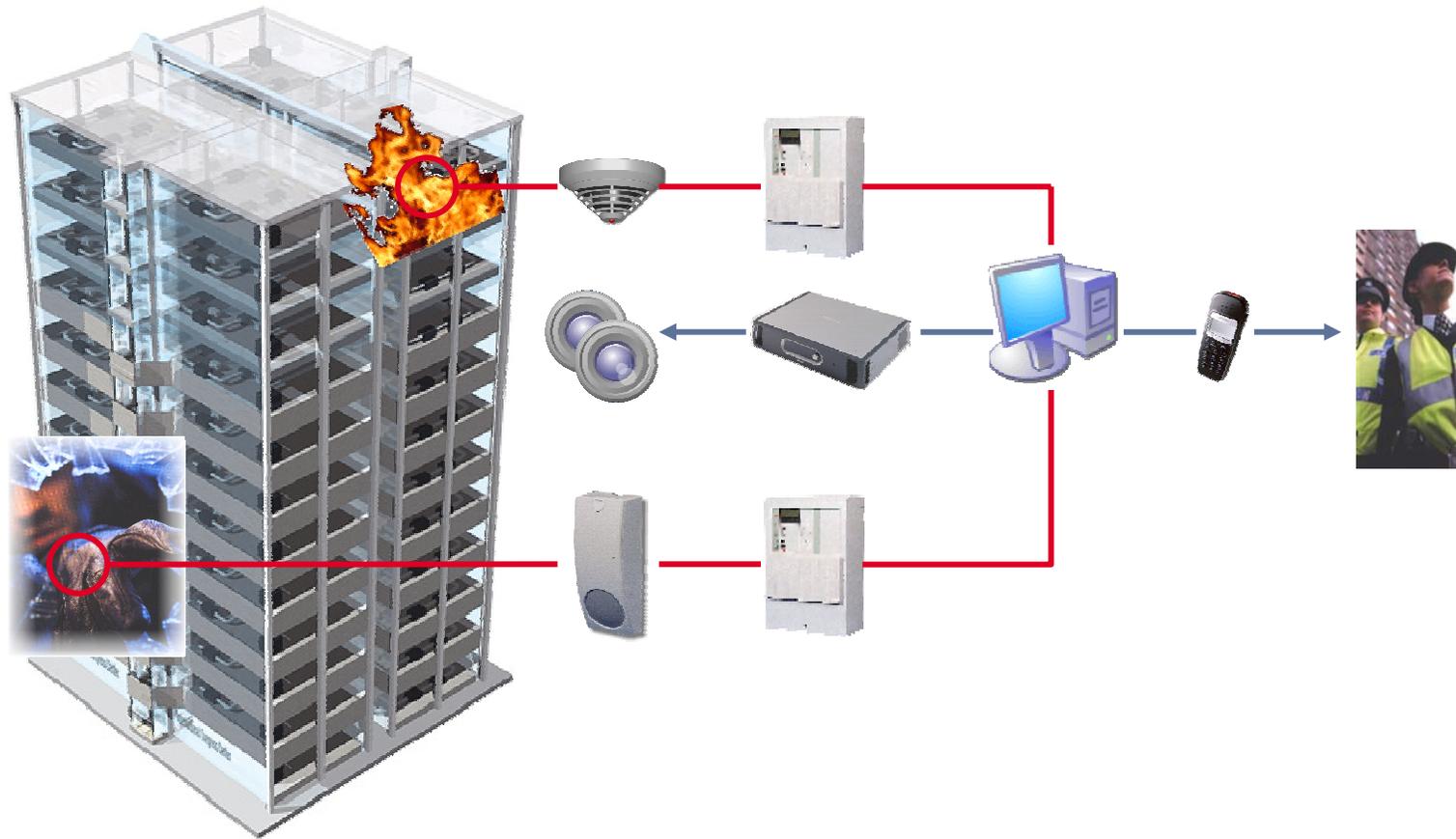
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## Typical use cases like fire or intrusion events



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## Comprehensive information provided

Status	Current condition	Alarm condition	Address
ACCEPTED	Ext-Fire (TU)	Ext-Fire (TU)	virtuell.UEZ2000.1001
ACCEPTED	Ext.-Intrusion (TU)	Ext.-Intrusion (TU)	virtuell.UEZ2000 Intrusion.3001
		Ext-Fire (TU)	virtuell.UEZ2000.1000
		Card invalid	virtuell.AMC.Main Entrance IN
		PIN code error	virtuell.AMC.Main Entrance OUT

**Message queue with fire and intrusion alarms (here mixed with ACE features)**

Total: 5    New: 1    Workflow: 1    Accepted: 3    Accepted at this workstation: 3

**Fire Brigade Report**

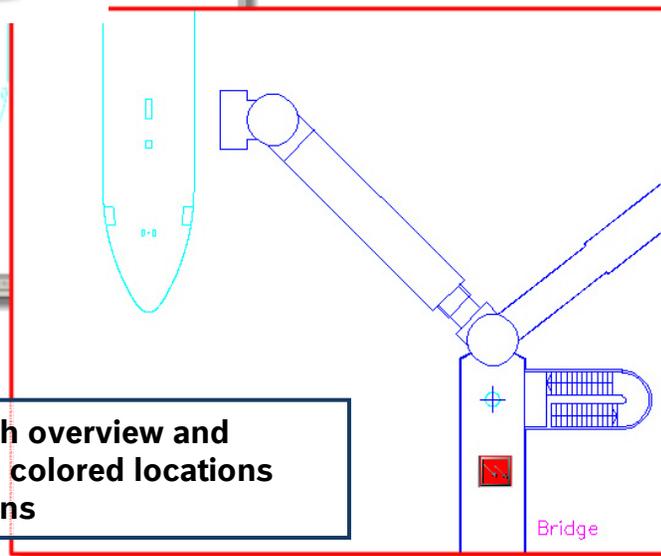
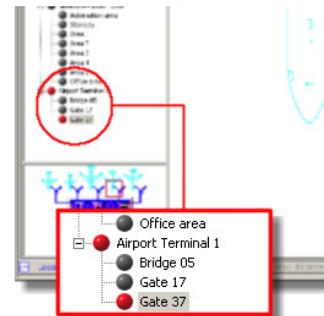
No: 117    Site: Lancaster    Date: 06.12.2004, 15:...

Tasks ready till:    Acknowledged:

Mailing list:

**Action plan with to-do-list and control features, here typical example for operating on fire alarms**

Reached alarm	Small fire	Big Fire	Date/Time	Property d...
Building:	Huge Fire			Business int...
Department:	PMS			Extinguishing a...
Area:	Choose			
Object:	Air Con			
Reason:	Choose			



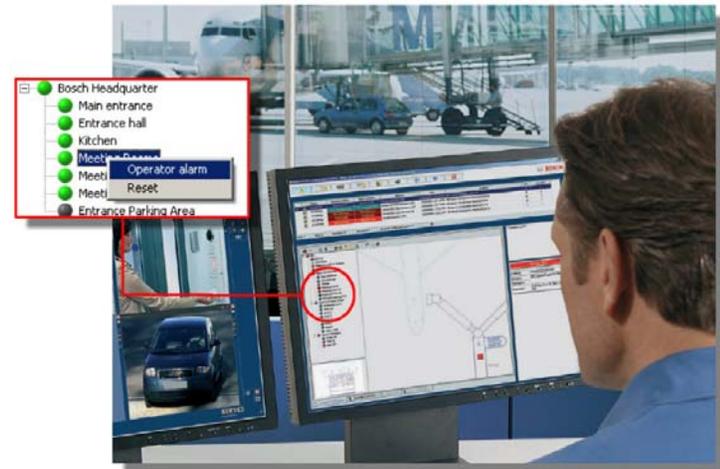
**Location map with overview and location tree with colored locations and animated icons**



## Building Integration System - Automation Engine

# Automatic and manual alarm operating

- BIS Automation Engine controls automatically into subsystems
- It automatically generates alarm messages corresponding to the configuration with all defined documents and camera images
- It supports manual alarm generation by operator alarm feature, e.g. when operator gets a phone call, such as accident or bomb threat



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## Automation Engine supports Bosch ...



UGM fire and intrusion panels



UEZ fire and intrusion panels



BZ500 fire panels



NZ300 intrusion panels



D6600 alarm receiver



Praesideo public address



Alphadesk paging/DECT series



Allegiant matrix switch series



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## Automation Engine supports 3<sup>rd</sup> party ...



Beckhoff DDCs for building automation



Fieldbus OPC server, e.g. Modbus



Feldhaus-Uhlenbrock AL5 perimeter fence surveillance



Schneider Interkom GE2xx/7xx intercom series



DORMA emergency door terminals



Stento/Scanvest M100 intercom series



Network monitoring by SNMP OPC



Siedle intercom/door units



Mobotix and other IP cameras

Many other 3<sup>rd</sup> party OPC compliant systems

Get an impression on [www.opcfoundation.org](http://www.opcfoundation.org)



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## Target groups

### Industrial

- Automotive
- Power plants
- ...

### Governmental

- Prisons
- Institutions
- ...

### Commercial

- Banks
- Office buildings
- Sport stadiums
- ...

### Transport

- Airports
- Railway
- Logistics
- ...

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