Security Systems

Release Notes

Grasbrunn
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Building Integration System (BIS) Version 4.

These release notes are intended to acquaint you with your new software version as quickly as possible.

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1 Installation Notes

1.1 Supported operating systems

The BIS system runs on these operating systems:

	BIS Login Server	**BIS Connection Servers**	**BIS Client**	**BIS VIE Client**
Windows 7 SP1 (32 bit) Professional or Enterprise	Yes	Yes	Yes	Not recommended
Windows 7 SP1 (64 bit) Professional or Enterprise	Yes	Yes	Yes	Yes
Windows 8.1 (32 bit) Professional or Enterprise	No	No	Yes	Not recommended
Windows 8.1 (64 bit) Professional or Enterprise	Yes	Yes	Yes	Yes
Windows 10 (64 bit, Pro or Enterprise LTSB)	Yes	Yes	Yes	No
Windows 10 (32 bit, Pro or Enterprise LTSB)	No	No	Yes	No
Windows Server 2008 R2 SP1 (64bit) Standard or Datacenter (*)	Yes	Yes	Yes	No
Windows Server 2012 R2 SP1 (64bit) Standard or Datacenter (*)	Yes	Yes	Yes	No
(*) Not as domain controller				

1.2 Server

The following are the hardware and software requirements for a BIS server

Supporting Software on Windows and Windows Server Operating Systems	• IIS 7.0 or 7.5 for Windows 7 and Windows 2008 Server R2 • IIS 8.5 for Windows 8.1 and Windows 2012 Server R2 • IIS 10.0 for Windows 10 Note: IIS is not necessary on BIS connection servers • Internet Explorer 9, 10 or 11 in compatibility mode

	• .NET for various operating systems: o On Windows 7 and Server 2008: .NET 3.51 and .NET 4.0 o On Windows 8.1 and Server 2012: .NET 3.51 and .NET 4.5.1 (includes .NET 4.0) o On Windows 10: .NET 3.51 and .NET 4.6.1 (includes .NET 4.0) Latest drivers and OS updates are highly recommended.
Minimum hardware requirements	• Intel i5 processor or higher. Intel Core 2 Duo 2.66 GHz (Dual Core) or greater • **4** GB RAM (**8** GB recommended) • **80**GB of free hard disk space • VGA graphics adapter with 256 MB RAM, a resolution of 1280 x 1024 and at least 32k colors • 100 Mbit/s Ethernet card (PCI) • 1 free USB port or network share for installation

1.3 Client

The following are the hardware and software requirements for a BIS client

Supporting Software	• ASP.NET • Internet Explorer 9, 10 or 11 in compatibility mode (Note: The SEE client requires IE 9.0) • .NET for various operating systems: o On Windows 7 and Server 2008: .NET 3.51 (for Video Engine with DiBos),and .NET 4.0 o On Windows 8.1 and Server 2012: .NET 3.51 (for Video Engine with DiBos),and .NET 4.5.1 (includes .NET 4.0) o On Windows 10: .NET 3.51 and .NET 4.6.1 (includes .NET 4.0)
Minimum hardware requirements	• Intel i5 or higher, Intel Core 2 Duo 2.66 GHz (Dual Core) or greater • **4**GB RAM (**8** GB recommended) • **20**GB free hard disk space • Graphics adapter with 1280 x1024 resolution, 32k colors, 256MB dedicated memory with OpenGL 1.2 or later • 100 Mbit/s Ethernet card

Additional minimum requirements for VIE (Video Engine) clients	• No Windows Server operating systems • No Windows 10 • Intel i5 processor or higher • For camera sequencing, virtual matrix or Multiview add 4GB RAM • Latest video drivers are highly recommended. Use the Windows dxdiag tool to make sure drivers are no more than 1 year old.

1.4 Updating BIS to Version 4.3

The setup program identifies any currently installed version of BIS.

- If setup detects a version equal to or older than BIS 3.0 then the upgrade process is aborted. Setup will prompt you for permission to remove the older and install the new version, but preserving the existing customer configurations.
- If the setup program identifies a currently installed version of 4.0 or higher, then the update will proceed as normal, preserving all customer-specific files and configurations on the same computer. These will be available again upon successful completion.

2 New features in version 4.3

Note: The limitations cited in this document are the maximum values that we have tested at the time of publication. They do not necessarily reflect the absolute maxima for the system.

2.1 Platform

2.1.1 New Operating system support

BIS 4.3 release can be installed and used on Windows 10 operating system. See the table in section 1.1 for details.

Limitations and recommendations

- The Microsoft Edge browser is not supported
- High-end physical machines are recommended for Windows 10 installations
- SQL Server 2014 is the recommended database for Windows 10
- On Windows 10 Pro use the “defer updates” option, and allow no feature updates
- Windows 10 is not recommended for customers who are using Video Engine
- It is recommended that you use same language for BIS and Windows 10. The only exception is Turkish, where Windows 10 in EN-US is recommended.

2.1.2 SQL server 2014 support

BIS 4.3 has added support for SQL Server 2014 SP1.
SQL server 2014 SP1 express edition with advanced services is the version that the BIS 4.3 set-up installs by default.

2.1.3 Enhanced Multi-site BIS support for large-scale installation

Multi-site BIS installations can now support up to 64 local servers [providers] per central server [consumer]. This allows better load balancing across the servers and allows operations through multiple servers.

Recommendations*:*

- A minimum of 10 Mbps speed recommended
- The maximum number of addresses across all servers is 200,000

2.1.4 Increased Operator client support

A maximum of 80 operator clients are now supported per BIS server as long as the existing events and message restrictions as adhered to.

Limitations:

- Maximum 10 clients can view reports simultaneously.
- Maximum 10 clients can display analog values simultaneously.

2.2 Access Engine (ACE)

2.2.1 Access by PIN alone

Keypad readers can be configured to allow access by PIN alone. When readers are so configured, the BIS operator can assign identification PINs to selected personnel.
This is called an Identification PIN [4-8 digits] and is different from both the Verification PINs and intruder alarm PINs.
The ACE operator can assign PINs to personnel manually, or assign to them random PINs generated by the system.
Note that the same personnel can continue to access using any physical cards that are also assigned to them.

2.2.2 64 floors configurable for Wiegand AMCs

64 instead of 56 floors levels can be reached using a Wiegand device configuration.
The configuration consists of:

- 1 x Wiegand AMC
- 1 x Wiegand extension board
- 3x I/O boards

2.2.3 Elevator door model supports up to two readers

The elevator door models 07a and 07c now support two readers, one mandatory, one optional.

3 Resolved issues in BIS version 4.3

3.1 Platform

Added support for '!=' [not equal] operator for selecting states in template jobs
[Usability] This aids the creation of conditions for BIS Association rules.

Consolidated command list appears on location graphic for an address list
[Usability] When an address list symbol in a location graphic is right-clicked, a more user-friendly consolidated command list is displayed.

The Event Log now handles renamed line states
[Usability] Renamed line states will display correctly in the logbook. All the events recorded under the old state name are updated to reflect the new state name.

Creating new attributes in BIS associations rectified
[Usability] It is possible to create new attributes in Associations, and to switch between the existing and new attributes.

Spurious column removed from Event Log printout
[Usability] Printouts of logbook pages no longer show the column 'address%#hidden#%' when the event log lacks an address column.

3.2 Access Engine (ACE)

Easier use of API in multi-server environments
[Interoperability, usability] The ACE API no longer requires extra registry settings for simultaneous access to multiple ACE servers.
Example scenario: A 3rd-party Identity Management System enrolls cardholders to several ACE servers in large distributed systems.

MAC memory stability and performance improvement
[Stability] The MAC process is resilient to overloads of incoming requests.

Faster browsing of OPC DA
[Usability] OPC Data Access [DA] can be browsed up to ten times faster than under BIS 4.2.

New Picture Service
[Usability] Improved display of cardholder photos.

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Company dialogue stability improvements
[Stability, usability] the addition and later deletion of a company no longer causes spurious errors in other dialogs.

Performance improvement for ACE OPC server (AEOPC)
[Performance, usability] Improved memory management helps AEOPC to cope with overloads in event traffic.

ACE-API improvement of "SetAuthorization" command
[Data consistency] The API method “SetAuthorizations” performs additional checks to ensure logically consistent data, for example during mass data creation.

Improved “Access Sequence Check”
[Usability, data consistency] New cardholders are initially given area “unknown”, rather than “outside” and access sequence checking works as documented.

ACE “Change Password” tool: English/German mistranslations
[Usability] The mistranslated strings in the “Change Password” tool have been corrected.

Random screening and divisions issue fixed
[Usability] Random screening readers can now be moved to other divisions without causing errors.

PegaSys enrolment readers work correctly with LEGIC CSN
[Usability] ACE Offline Doors (PegaSys) enrolment readers now work correctly with LEGIC CSN.

ACE systems are properly restored after reinstallations
[Usability] BIS 4.3 can now be properly restored from a backup even if the BIS-ACE has been reinstalled, for example due to a hardware replacement. The restore error, for which there is a workaround, is restricted to BIS Version 4.2.

Performance improvements with ACE Offline Doors (PegaSys) cardholders
[Usability, data consistency] ACE Offline Doors (PegaSys) cardholders can now be moved from one division to another without incurring a temporary performance penalty.

ACE API and Importer/Exporter validate telephone numbers
[Usability, data consistency] The Import/Export tool now performs additional checks on phone numbers to ensure logically consistent data. Phone numbers are restricted to the characters 0-9\ +-/().