BOSCH

Building Integration System

Quick Installation Guide

1   Quick installation guide

This document is intended as an abbreviated guide for experienced users. The authoritative installation guide is on the installation medium and should always be consulted if in doubt.

The main steps for getting your BIS installation started are described briefly here. Those steps are:

1. Checking system requirements
2. Installing BIS software
3. Licensing the BIS server
4. Creating and licensing configurations
5. Configuring BIS clients
6. Starting the BIS server

1.1   Checking system requirements

The following hardware and software are minimum requirements needed to install BIS Software:

> **i** **Notice!**
> Primary Domain Controllers (PDCs) and Backup Domain Controllers (BDCs) are not supported as they do not provide the administration of local user accounts necessary for management systems.

1.1.1   System requirements for BIS servers

Servers	
Supported operating systems	– Windows 7 SP1 (32 or 64 bit, Pro, Enterprise) – Windows Server 2008 R2 SP1 (64 bit, Standard, Datacenter) – Windows 8.1 (64 bit, Pro, Enterprise)

Servers	
(standalone or client/server mode). Installations of BIS on other operating systems may succeed, but are entirely without warranty.	– Windows Server 2012 R2 (64 bit, Standard, Datacenter) – Windows Server 2016 (64 bit, Standard, Datacenter) – Windows 10 Enterprise LTSB (64 bit) – **Note:** The default database delivered with this BIS Version is SQL Server 2016 SP2 Express edition with advanced services

Other Software	– 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:
	  – On Windows 7 and Server 2008: .NET 3.51 and .NET 4.0
	  – On Windows 8.1 and Server 2012: .NET 3.51 and .NET 4.5.1 (includes .NET 4.0)
	  – 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 with at least 4 physical cores
	– 8 GB RAM (32 GB recommended)
	– 200 GB of free hard disk space
	– Graphics adapter with
	  – 256 MB RAM,
	  – a resolution of 1280x1024

Servers
– at least 32 k colors   – OpenGL® 2.1 and DirectX® 11   – 1 Gbit/s Ethernet card – A free USB port or network share for installation files

1.1.2 System requirements for BIS clients

Clients	
Supported operating systems (standalone or client/server mode). Installations of BIS on other operating systems may succeed, but are entirely without warranty.	– Windows 7 SP1 (32 or 64 bit, Pro, Enterprise) – Windows Server 2008 R2 SP1 (64 bit, Standard, Datacenter) – Windows 8.1 (32 or 64 bit, Pro, Enterprise) – Windows Server 2012 R2 (64 bit, Standard, Datacenter) – Windows Server 2016 (64 bit, Standard, Datacenter) – Windows 10 (32 or 64 bit, Pro or Enterprise LTSB) – **Note:** with a Pro edition, updates must be deferred until 8 months after the release of the BIS version. For further information see the Microsoft technet page at https://technet.microsoft.com/en-us/itpro/windows/manage/introduction-to-windows-10-servicing
Other 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: – On Windows 7 and Server 2008: .NET 3.51 (for Video Engine with DiBos),and .NET 4.0

Clients	
	– On Windows 8.1 and Server 2012: .NET 3.51 (for Video Engine with DiBos),and .NET 4.5.1 (includes .NET 4.0) – On Windows 10: .NET 3.51 and .NET 4.6.1 (includes .NET 4.0)

Minimum hardware requirements	– Intel i5 or higher
	– 8 GB RAM (16 GB recommended)
	– 20 GB free hard disk space
	– Graphics adapter with
	  – 256 MB RAM,
	  – a resolution of 1280x1024
	  – at least 32 k colors
	  – OpenGL® 2.1 and DirectX® 11
	– 100 Mbit/s Ethernet card

Additional minimum requirements for VIE (Video Engine) clients	– No Windows Server operating systems – 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

Additional software to be installed prior to BIS installation:
– The IIS version which corresponds to your operating system.
  On Windows 7, 8.1, 10 or Windows Server 2008 R2 or 2012 R2 omit or remove the CGI feature. A new IIS installation script `InstallIISForBIS.exe` is provided on the BIS installation medium in the directory `Tools \InstallIISforBIS\`. For details and other required settings please consult the BIS Installation Guide
– Internet Explorer 9, 10 or 11 (all in compatibility mode). For the BIS client use 32-bit browser versions only.

– A PDF viewer for reading documents that are displayed
with the installation process.

1.1.3   Other required settings and software

– A TCP/IP network connecting BIS and database servers
– A unique name for each computer, no longer than 15 Latin
characters without diacritic marks.
– US American or standard European date-time formats: `MM/dd/yyyy` or `dd.MM.yyyy`
– A user account with Windows administrator rights and
password
– If the local security policy forbids the weak `MgtS-Service`
password then create the `MgtS-Service` user manually
with a compliant password.
– Antivirus software should be installed but must not be
running during BIS installation.

The following practices have been found beneficial

– Use US regional settings, even if the language of your
operating system is not US English.
– Copy the BIS installation files to a subdirectory of the main
disk drive and install from there, not from the Windows
desktop.

Note: If your local IT services require a list of BIS IIS settings,
these are found in the main BIS installation guide. Search for IIS
in the chapter **Performing a first-time installation**.

1.2   Installing BIS software

Notice!

This Quick Start Guide describes a fresh BIS installation. For an update installation please first stop the BIS Server in the BIS Manager, close the BIS manager and then proceed as for the fresh installation below, but omitting the creation of a new configuration if you intend to use an existing one.

Insert the BIS installation medium or copy the kit, and browse the files.
Right-click **setup.exe** and select **Run as administrator** from the context menu.
Follow the installation wizard. Select only installation options corresponding to the licenses you have purchased.

Notice!

The installation wizard installs license-free, capacity-limited instances of the SQL Server by default. Alternatively, if certain requirements are met, existing, licensed versions can be used. Please see the BIS installation guide for details of these requirements, in the chapter on first-time installation.

1.3   Licensing the BIS server

Licenses for BIS 4.0 and above are ordered online and delivered electronically. Proceed as follows:

1.   Order the licenses you require from your local Bosch order desk or sales organization. You will receive an email from them containing your authorization number.
2.   Start the BIS Manager
3.   On the **License** tab, click the **Start License Manager** button.
      –   **Effect:** The License Manager dialog box is displayed.

4. Select the check boxes for the software package, the features, and the expansions that you have ordered. For the expansions, enter also the number of units required.
5. Click the **Activate...** button.
    –   **Effect:** The **License Activation** dialog box is displayed containing your computer signature.
6. Write down the computer signature or copy and paste it into a text file.
7. On a computer with Internet access, enter the following URL into your browser:
    https://activation.boschsecurity.com
    If you do not have an account to access the Bosch License Activation Center, either create a new account and log on (recommended), or click the link to activate a new license without logging on. Note that for SMA (software maintenance agreement) licenses an account is always required. An account has the further advantage of keeping track of all your activations for future reference.

    Follow the instructions on the website to obtain the License Activation Key.

8. Return to the software. In the **License Activation** dialog box, type or paste in the License Activation Key obtained from the Bosch License Activation Center and click the **Activate** button.
    –   **Effect:** The software packages are activated for the computer.
9. Click the **Refresh** button to view the modified set of activated licenses

> **Notice!**
> Effects of hardware and software changes
> Changes to the hardware of the BIS login server may invalidate your license and cause BIS to stop functioning. Please check with technical support before making changes to the BIS login server.

1.4 Creating and licensing configurations

– Create configurations for your BIS installation as described in the BIS Configuration online help, section: **Setting up an initial BIS configuration**
– Activate licenses for individual configurations as described in the BIS Configuration online help, section: **Configuration Browser tabs** > **License**

1.5 Configuring BIS clients

Configure BIS clients as described in the BIS installation manual, section: **Configuring BIS clients and optional tools**.

Making browser settings with a .REG file
The simplest way to change the browser settings is to use the prepared registry command file. Proceed as follows after installing the BIS server software.
1. On the BIS server open this URL in your Internet Explorer:
   `http://localhost/ClientDeploy/tools.aspx`
2. From the aspx page download the following file:
   `IE_InternetSettings_Zone2_TrustedSites_BIS.zip`
3. Extract the `.reg` file from the `.zip` file
4. Using accounts with administrator privileges, execute the `.reg` file on each of the BIS client computers.

    –   **Effect:** The IE settings are made globally via the Windows registry.

1.6   Starting the BIS server

Start the BIS server as described in the BIS Configuration online help, section **Starting and stopping the BIS server.**