1 Introduction

This document describes the installation of the Web Server for Bosch Recording Station 8.10.

Bosch Recording Station 8.10 Web Server was tested with the following Operating System versions:

- Windows 7 SP1 (32-bit / 64-bit)
  See chapter 2 Web Server for BRS running on Windows 7

- Windows Server 2008 SP2 (32-bit)
- Windows Server 2008 R2 (64-bit)
  See chapter 3 Web Server for BRS running on Windows Server 2008

- Windows XP Professional SP3 (32-bit)
  See chapter 4 Web Server for BRS running on Windows XP

- Windows Server 2003 SP2 (32-bit)
- Windows Server 2003 R2 SP2 (32-bit)
  See chapter 5 Web Server for BRS running on Windows Server 2003
2 Web Server for BRS running on Windows 7

To install Web Server functionality for Bosch Recording Station, perform the following steps:

1. Installing Bosch Recording Station application (see page 2)
2. Turning on Feature Internet Information Services (IIS) (see page 3)
3. Registering ASP.NET 4.0 (see page 4)
4. Configuring Default Web Site in IIS (see page 4)
5. Configuring IIS for 64-bit OS version (see page 6)
6. Disabling Application Recycling (see page 7)
7. Allowing ASP.NET 4.0 (see page 8)
8. Configuring DCOM Permissions (see page 10)

2.1 Installing Bosch Recording Station application

See installation requirements in Quick Installation Guide to install Bosch Recording Station application.

Notes:
- We recommend you to disable the Windows Firewall. If the Windows Firewall cannot be disabled, unblock the HTTP port 80 (TCP) for BRS Web Server.
- During the installation you can select the installation path of the Bosch Recording Station. This installation manual refers to the default path
  - Windows 7 (32-bit): C:\Program Files\Bosch\Recording Station
  - Windows 7 (64-bit): C:\Program Files (x86)\Bosch\Recording Station
- Exit BRS application before installing the Web Server.
### 2.2 Turning on Feature Internet Information Services (IIS)

To turn on feature Internet Information Services (IIS):

1. **Control Panel > Programs > Programs and Features > Turn Windows features on or off**

2. In **Windows Features** select the following features:
   - Internet Information Services > Web Management Tools > **IIS Management Console**
   - Internet Information Services > World Wide Web Services > Application Development Features > **ASP.NET**
   - Internet Information Services > World Wide Web Services > Common HTTP Features > **Static Content**

3. Click **OK**.
2.3 Registering ASP.NET 4.0

To register ASP.NET 4.0

1. Open a Command Prompt with administrative rights:
   
   **Start > All Programs > Accessories > right-click Command Prompt > Run as administrator.**

2. Type `C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet_regiis.exe –ir` and press Enter.

3. Close Command Prompt.

2.4 Configuring Default Web Site in IIS

To configure Default Web Site in IIS

1. **Control Panel > System and Security > Administrative Tools > Internet Information Services (IIS) Manager > Computer name (local computer) > Sites > Default Web Site > under Edit Site, click Basic Settings...**

2. Click Select...
3. In the **Application pool**: box, select **ASP.NET v4.0 Classic** > click **OK**.

4. Under **Physical path**, click ...

5. Select `C:\Program Files\Bosch\Recording Station\Web\aspx` (32-bit OS)
   Select `C:\Program Files(x86)\Bosch\Recording Station\Web\aspx` (64-bit OS) > click **OK**.

6. The path is displayed in the **Physical path**: box, click **OK**.

7. Close **IIS Manager**.
2.5 Configuring IIS for 64-bit OS version

Note: This chapter has to be followed on Windows 7 64-bit version only.

To configure IIS for 64-bit version


2. Right-click ASP.NET v4.0 Classic and select Advanced Settings...

3. Set Enable 32-Bit Applications to True > click OK.

4. Close IIS Manager.
### 2.6 Disabling Application Recycling

To disable application recycling

1. **Control Panel > System and Security > Administrative Tools > Internet Information Services (IIS) Manager > Computer name (local computer) > Application Pools.**

2. Right-click **ASP.NET v4.0 Classic** and select **Recycling...**

3. In **Recycling Conditions**, deselect all selected check boxes, click **Next**.

4. Click **Finish**.

5. Close **IIS Manager**.
2.7 Allowing ASP.NET 4.0

To Allow ASP.NET 4.0

1. **Control Panel > System and Security > Administrative Tools > Internet Information Services (IIS) Manager > Computer name (local computer) >**

2. Right-click **ISAPI and CGI Restrictions** and select **Open Feature**.

3. Right-click **ASP.NET v4.0.30319 ...c:\windows\microsoft.NET\framework\...** >

   **Under Actions**, select **Allow**.
4. Right-click **ASP.NET v4.0.30319 ..c:\windows\microsoft.NET\framework64\..** > Under **Actions**, select **Allow**.

5. Close **IIS Manager**.
2.8 Configuring DCOM Permissions

To configure DCOM permissions

1. Control Panel > System and Security > Administrative Tools > Component Services >
2. Component Services > Computers > My Computer > DCOM Config
3. Quit 2 warning windows with click on No.
4. Right-click VirtualInputs > Properties.

5. Tab Security

Under Launch and Activation Permissions, select Customize, click Edit.
6. In **Launch and Activation Permissions**, click **Add...**

![Image of Launch and Activation Permissions dialog box with Add button highlighted]

7. In the **Select Users or Groups** dialog box, click **Advanced...**

![Image of Select Users or Groups dialog box with Advanced button highlighted]

8. Click **Find Now**.

Then select **IUSR**, and then click **OK**.

![Image of Select Users or Groups dialog box with IUSR selected and Find Now button highlighted]
9. The name is displayed in **Select Users or Groups** dialog box. Click **OK**.

10. Select **IUSR**, > in the **Allow** column, select **Local Activation**.

11. Click **OK**.
12. Under **Access Permissions** select **Customize**, click **Edit**.
13. In **Access Permissions**, click **Add…**

14. In the **Select Users or Groups** dialog box, click **Advanced…**

15. Click **Find Now**.
   Then select **IUSR**, and then click **OK**.
16. The name is displayed in **Select Users or Groups** dialog box. Click **OK**.

17. Select **IUSR**, > in the **Allow** column, select **Local Access**.

18. Click **OK**, and then click **OK** again.

19. Close **Component Services**, and then close **Control Panel**.

20. Reboot the computer.
3 Web Server for BRS running on Windows Server 2008

To install Web Server functionality for Bosch Recording Station, perform the following steps:

1. Installing Bosch Recording Station application (see page 15)
2. Turning on Feature Internet Information Services (IIS) (see page 16)
3. Registering ASP.NET 4.0 (see page 18)
4. Configuring Default Web Site in IIS (see page 18)
5. Configuring IIS for 64-bit OS version (see page 20)
6. Disabling Application Recycling (see page 21)
7. Allowing ASP.NET 4.0 (see page 22)
8. Configuring DCOM Permissions (see page 24)

Notes:
- Windows Server 2008:
  Before installing Bosch Recording Station, make sure that the Server Features Desktop Experience and .NET Framework 3.0 Features are installed.
- Windows Server 2008 R2:
  Before installing Bosch Recording Station, make sure that the Server Features Desktop Experience and .NET Framework 3.51 Features are installed.

3.1 Installing Bosch Recording Station application

See installation requirements in Quick Installation Guide to install Bosch Recording Station application.

Notes:
- We recommend you to disable the Windows Firewall. If the Windows Firewall cannot be disabled, unblock the HTTP-Port 80 (TCP) for BRS Web Server.
- During the installation you can select the installation path of the Bosch Recording Station. This installation manual refers to the default path
  - Windows Server 2008 (32-bit): C:\Program Files\Bosch\Recording Station
  - Windows Server 2008 R2 (64-bit): C:\Program Files (x86)\Bosch\Recording Station
- Exit BRS application before installing the Web Server.
3.2 Turning on Feature Internet Information Services (IIS)

Internet Information Services (IIS) is already partly installed by enabling Server Feature .NET Framework 3.x Features. For BRS Web Server further Role Services must be added.

To turn on feature Internet Information Services (IIS)

1. Start > Administrative Tools > Server Manager > Roles > Web Server (IIS)
   Right-click Web Server (IIS) >Add Role Services.

2. In the Select Role Services window, select the following check boxes:
   - Common HTTP Features:
     - Static Content
     - Default Document
     - Directory Browsing
     - HTTP Errors
   - Application Development:
     - ASP.NET > in the confirmation box, click Add Required Role Services
     - ASP > ISAPI Extensions and ISAPI Filters become selected, too.
   - Health and Diagnostics
     - HTTP Logging
     - Request Monitor
   - Performance
     - Static Content Compression
   - Management Tools
     - IIS Management Console
3. Click **Next**, then click **Install** > **Check Installation Results**.

4. Click **Close**.
5. Close **Server Manager**.
3.3 Registering ASP.NET 4.0

To register ASP.NET 4.0

1. Start > Command Prompt
2. Type `C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet_regiis.exe -ir` and press Enter.
3. Close Command Prompt.

3.4 Configuring Default Web Site in IIS

To configure Default Web Site in IIS

1. Start > Administrative Tools > Internet Information Services (IIS) Manager > Computer name (local computer)
   > Sites > Default Web Site > under Edit Site, click Basic Settings...
2. Click **Select**....

3. In the **Application pool**: box, select **ASP.NET v4.0 Classic** > click **OK**.

4. Under **Physical path:**, click ...

5. Select **C:\Program Files\Bosch\Recording Station\Web\aspx** (32-bit OS)
   Select **C:\Program Files (x86)\Bosch\Recording Station\Web\aspx** (64-bit OS)
   > Click **OK**.

6. The path is displayed in the **Physical path**: box > Click **OK**.

7. Close **IIS Manager**.
3.5 Configuring IIS for 64-bit OS version

Note: This chapter has to be followed on Windows Server 2008 R2 (64-bit) version only.

To configure IIS for 64-bit version

2. Right-click ASP.NET v4.0 Classic and select Advanced Settings...
3. Set Enable 32-Bit Applications to True > click OK.
4. Close IIS Manager.
3.6 Disabling Application Recycling

To disable application recycling


2. Right-click **ASP.NET v4.0 Classic** and select **Recycling…**

3. In **Recycling Conditions**, deselect all selected check boxes, click **Next**.

4. Click **Finish**.

5. Close **IIS Manager**.
3.7 Allowing ASP.NET 4.0

To allow ASP.NET 4.0:

1. Start > Administrative Tools > Internet Information Services (IIS) Manager > Computer name (local computer) >
2. Right-click ISAPI and CGI Restrictions and select Open Feature.
3. Right-click **ASP.NET v4.0.30319 ...C:\Windows\Microsoft.NET\Framework\...** > Under **Actions**, select **Allow**.

4. Right-click **ASP.NET v4.0.30319 ...C:\Windows\Microsoft.NET\Framework64\...** > Under **Actions**, select **Allow**.

5. Close **IIS Manager**.
3.8 Configuring DCOM Permissions

To configure DCOM permissions

1. Start > Administrative Tools > Component Services
2. Component Services > Computers > My Computer > DCOM Config
3. Quit 2 warning windows with click on No.
4. Right-click VirtualInputs > Properties.

5. Tab Security
6. Under Launch and Activation Permissions select Customize, click Edit.
7. In **Launch and Activation Permissions**, click **Add…**

![Launch and Activation Permissions]

8. In the **Select Users or Groups** dialog box, click **Advanced…**

9. **Click Find Now.**

Then select **IUSR**, and then click **OK**.

![Select Users or Groups]
10. The name is displayed in **Select Users or Groups** dialog box.

11. Click **OK**.

12. Select **IUSR**, > in the **Allow** column, select **Local Activation**.

13. Click **OK**.

14. Under **Access Permissions** select **Customize**, click **Edit**.
15. In **Access Permissions**, click **Add**...

16. In the **Select Users or Groups** dialog box, click **Advanced**...

17. Click **Find Now**.
18. Then select **IUSR**, and then click **OK**.
19. The name is displayed in **Select Users or Groups** dialog box.
20. Click **OK**.

![Select Users or Groups dialog box]

21. Select **IUSR**, > in the **Allow** column, select **Local Access**.

![Access Permissions dialog box]

22. Click **OK**, and then click **OK** again.
23. Close **Component Services**.

24. Reboot the computer.
4 Web Server for BRS running on Windows XP

To install Web Server functionality for Bosch Recording Station, perform the following steps:

1. Installing Bosch Recording Station application (see page 29)
2. Installing Internet Information Services (IIS) (see page 30)
3. Registering ASP.NET 4.0 (see page 30)
4. Configuring Default Web Site in IIS (see page 31)
5. Configuring DCOM Security (see page 33)
6. Configuring DCOM Permissions (see page 36)

**Note:**
The IIS installation needs the original Windows XP installation CD-ROM.

### 4.1 Installing Bosch Recording Station application

See installation requirements in Quick Installation Guide to install Bosch Recording Station application.

**Notes:**
- We recommend you to disable the Windows Firewall. If the Windows Firewall cannot be disabled, unblock the HTTP port 80 (TCP) for BRS Web Server.
- During the installation you can select the installation path of the Bosch Recording Station. This installation manual refers to the default path C:\Program Files\Bosch\Recording Station
- Exit BRS application before installing the Web Server.
4.2 Installing Internet Information Services (IIS)

To install the Internet Information Services (IIS)
1. Control Panel > Add or Remove Programs > Add/Remove Windows Components >
2. In Windows Component Wizard select Internet Information Services (IIS) > Next.

3. Insert the Windows XP Professional CD-ROM into the disk drive.
4. In Files Needed window, browse for <CD drive>\i386 and click Open, then click OK.

5. In the Windows Component Wizard window, click Finish.
7. Close Add or Remove Programs window.

4.3 Registering ASP.NET 4.0

To register ASP.NET 4.0
1. Start > All Programs > Accessories > Command Prompt
2. Type C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet_regiis.exe -i
   and press Enter.
3. Close Command Prompt.
4.4 Configuring Default Web Site in IIS

To configure Default Web Site in IIS

1. **Control Panel > Administrative Tools > Internet Information Services > Computer name (local computer) > Web Sites >**
   right-click **Default Web Site > Properties**.

2. **Tab Home Directory**
   **Under Local Path**, click **Browse >**
3. Select `C:\Program Files\Bosch\Recording Station\Web\aspx`.
4. In the **Application protection**: box, click **Low (IIS Process)** and click **Apply**.

5. Tab **Web Site**
   In the **Connection Timeout**: box, enter **1** and click **Apply**.

6. Click **OK**.
7. Close **Internet Information Services**.
4.5 Configuring DCOM Security

To configure DCOM Security

1. **Control Panel > Administrative Tools > Component Services > Component Services > Computers > right-click My Computer > Properties**

2. **Tab COM Security**

   **Under Launch and Activation Permissions**, click **Edit Default...**
3. In the **Launch Permission** dialog box, click **Add**...

4. In the **Select Users or Groups** dialog box, click **Advanced**...

5. Click **Find Now** >

Then select **IUSR_{Computer name}** and **IWAM_{Computer name}**, and click **OK**.
6. The names are displayed in the Select Users or Groups dialog box.
   > click OK.

7. Select Internet Guest Account > in the Allow column, select all 4 check boxes.

8. Select Launch IIS Process Account > in the Allow column, select all 4 check boxes

9. Click OK, and then click OK again.
4.6 Configuring DCOM Permissions

To configure DCOM permissions

25. Control Panel > Administrative Tools > Component Services
26. Component Services > Computers > My Computer > DCOM Config
27. Quit 4 warning windows with click on No.
28. Right-click VirtualInputs > Properties.

29. Tab Security
   Under Access Permissions select Customize, click Edit.
30. In **Access Permissions**, click **Add...**

![Screen shot of Access Permissions dialog box]

31. In the **Select Users or Groups** dialog box, click **Advanced...**

![Screen shot of Select Users or Groups dialog box]

32. Click **Find Now**.

Then select **IUSR_<Computer name>**, and then click **OK**.

![Screen shot of Select Users or Groups dialog box with IUSR_<Computer name> selected]
33. The name is displayed in **Select Users or Groups** dialog box.

34. Click **OK**.

35. Select **Internet Guest Account**, > in the **Allow** column, select **Local Access**.

36. Click **OK**, and then click **OK** again.

37. Close **Component Services**.

38. Reboot the computer.
5 Web Server for BRS running on Windows Server 2003

To install Web Server functionality for Bosch Recording Station, perform the following steps:

1. Installing Bosch Recording Station application (see page 39)
2. Installing Internet Information Services (IIS) (see page 40)
3. Registering ASP.NET 4.0 (see page 41)
4. Configuring Default Web Site in IIS (see page 41)
5. Disabling Application Recycling (see page 42)
6. Configuring IIS Web Server Extensions (see page 43)
7. Configuring DCOM Security (see page 44)
8. Configuring DCOM Permissions (see page 47)

Note:
The IIS installation needs the original Windows Server 2003 installation CD-ROM.

5.1 Installing Bosch Recording Station application

See installation requirements in Quick Installation Guide to install Bosch Recording Station application.

Notes:
- We recommend you to disable the Windows Firewall. If the Windows Firewall cannot be disabled, unblock the HTTP port 80 (TCP) for BRS Web Server.
- During the installation you can select the installation path of the Bosch Recording Station. This installation manual refers to the default path C:\Program Files\Bosch\Recording Station
- Exit BRS application before installing the Web Server.
5.2 Installing Internet Information Services (IIS)

To install the Internet Information Services (IIS)

1. Control Panel > Add or Remove Programs > Add/Remove Windows Components >
2. In Windows Component Wizard select the Application Server check box >

3. Click Details > make sure that the Internet Information Services (IIS) check box is selected > click OK, and then click Next.

4. Insert the Windows XP Professional CD-ROM into the disk drive.
6. In the Welcome Component Wizard window, click Finish.
7. Remove Windows XP Professional CD-ROM from disk drive.
8. Close Add or Remove Programs window.
5.3 Registering ASP.NET 4.0

To register ASP.NET 4.0

1. **Start > Command Prompt**
2. Type `C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet_regiis.exe -i` and press **Enter**.
3. Close **Command Prompt**.

5.4 Configuring Default Web Site in IIS

To configure Default Web Site in IIS

1. **Start > Administrative Tools > Internet Information Services (IIS) Manager > Computer name (local computer) > Web Sites > right-click Default Web Site > Properties.**

2. **Tab Home Directory > under Local Path; click Browse >**
3. **Select C:\Program Files\Bosch\Recording Station\Web\aspx** and click **OK.**

4. Close **IIS Manager.**
5.5 Disabling Application Recycling

To disable Application Recycling

1. Start > Administrative Tools > Internet Information Services (IIS) Manager > Computer name (local computer) > right-click Application Pools > Properties

2. Tab Recycling
   Deselect all selected check boxes, click OK.

3. Close IIS Manager.
5.6 Configuring IIS Web Server Extensions

To configure IIS Web Server Extensions

1. Start > Administrative Tools > Internet Information Services (IIS) Manager > Computer name (local computer) > Web Server Extensions

2. Select Active Server Pages, click Allow.

3. Select ASP.NET v4.0.30139, click Allow.

4. Close IIS Manager.
5.7 Configuring DCOM Security

To configure DCOM Security

1. **Start > Administrative Tools > Component Services > Component Services > Computers > right-click My Computer > Properties**

2. **Tab COM Security**
   - **Under Launch and Activation Permissions**, click **Edit Default...**
3. In the **Launch Permission** dialog box, click **Add**...

![Launch Permission dialog box]

4. In the **Select Users or Groups** dialog box, click **Advanced**...

![Select Users or Groups dialog box]

5. Click **Find Now** >
   Then select **IUSR_**<Computer name>**> and **IWAM_**<Computer name>**, and click **OK**.

![Find Now dialog box]
6. The names are displayed in the Select Users or Groups dialog box.  
   > click OK.

7. Select Internet Guest Account > in the Allow column, select all 4 check boxes.

8. Select Launch IIS Process Account > in the Allow column, select all 4 check boxes.

9. Click OK, and then click OK again.

5.8 Configuring DCOM Permissions

To configure DCOM permissions

1. **Start** > **Administrative Tools** > **Component Services**
2. **Component Services** > **Computers** > **My Computer** > **DCOM Config**
3. Quit 2 warning windows with click on **No**.
4. Right-click **VirtualInputs** > **Properties**.

5. Tab **Security**
   Under **Access Permissions** select **Customize**, click **Edit**.
6. In **Access Permissions**, click **Add**...

![Access Permissions dialog box](image)

7. In the **Select Users or Groups** dialog box, click **Advanced**...

![Select Users or Groups dialog box](image)

8. Click **Find Now**.

   Then select **IUSR_**<Computer name>, and then click **OK**.
9. The name is displayed in **Select Users or Groups** dialog box.

10. Click **OK**.

![Select Users or Groups dialog box]

11. Select **Internet Guest Account**, > in the **Allow** column, select **Local Access**.

![Internet Guest Account settings]

12. Click **OK**, and then click **OK** again.

13. Close **Component Services**.

14. Reboot the computer.