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Building Integration System

DCOM Configuration

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This document is the DCOM configuration guide. It describes the manual configuration required for OPC Servers to work correctly with the Building Information System (BIS) from Bosch Security Systems.

Configure these DCOM parameters for the OPC Servers to browse them with the Configuration Browser and receive correct notifications at runtime.

Two scenarios are described below:

1. System with Connection Servers
2. System with third-party OPC Servers

The instructions are applicable to the following operating systems:

- Windows 10
- Windows Server 2016
- Windows Server 2019

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1 System with Connection Servers

This configuration applies to systems where BIS installation has been performed, therefore creating a Connection Server.

The user, who logs in from the operating system of the login server and operates the Configuration Browser, must be known on the Connection Server.

On the Connection Server:

This user should at least have Power-user admin rights (member of the Power Users group). (**NOTE:** The username and password must be identical to the user on the login server. **Be sure to select the same user from the same domain.**)

Users who log in on the Connection Server must have Administrator rights.

Add the user to the “**BISUsers**” group that was already created during the BIS installation procedure.

If you have problems, check the properties in the DCOM configuration.

1. Right-click the **Start** button > **Run**.
2. Enter **dcomcnfg** and select **OK**.
3. From the left panel, expand the **Console Root** node > **Component Services** > **Computers** > **My Computer**.
4. Right-click **My Computer** and then select **Properties**.
5. Select the **Default Properties** tab.

The **Default Authentication Level** must be identical to the login server's settings. In the **Default Impersonation Level** settings, select **Identify** if it isn't the selected value.

You can configure the **Authentication Level** in the DCOM properties of the OPC Server itself.

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2 System with third-party OPC Servers

This configuration applies to systems where no BIS installation has been performed.

2.1 Create the “MgtS-Service” user manually

1. Right-click the **Start** button > **Computer Management** > **Local Users and Groups** > **Users**.

2. Create a new user with the following settings.

Setting	Value	Notes
User name	MgtS-Service	Case sensitive
Password		Contact customer support for this password. The password must be identical to that of the “MgtS-Service” user on the BIS login server.
Member of group	Administrators	
User must change password at next logon	No	
User cannot change password	Yes	
Password never expires	Yes	

3. Configure the user with the following **Local Security Settings**.

Setting	Value
Logon as a service	Yes
Log on as a batch job	Yes

2.2 Create the “BISUsers” group manually

1. Right-click the **Start** button > **Computer Management** > **Local Users and Groups** > **Groups**.

2. Create a new group with the following settings.

Setting	Value	Notes
Group name	BISUsers	Case sensitive

3. Add the “**MgtS-Service**” user to this group.
4. Add the user, who logs in from the operating system of the login server and operates the Configuration Browser, to this group.

2.3 DCOM settings for the “BISUsers” group

1. Right-click the **Start** button > **Run**.
2. Enter **dcomcnfg** and select **OK**.

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3. From the left panel, expand the **Console Root** node > **Component Services** > **Computers** > **My Computer**.
4. Right-click **My Computer** and then select **Properties**.
5. Select the **COM Security** tab.
6. Under **Access Permissions**, select **Edit Default**.
7. Add the "**BISUsers**" group and select the following permissions:

Permissions Type	Permissions
Local Access	Allow
Remote Access	Allow

8. Select **OK**.
9. Under **Launch and Activation Permissions**, select **Edit Default**.
10. Add the "**BISUsers**" group and select the following permissions:

Permissions Type	Permissions
Local Launch	Allow
Remote Launch	Allow
Local Activation	Allow
Remote Activation	Allow

11. Select **OK**.
12. Reboot the computer.

NOTE: If you have problems with these settings, please contact technical support.

2.4 DCOM Security

1. Right-click the **Start** button > **Run**.
2. Enter **dcomcnfg** and select **OK**.
3. From the left panel, expand the **Console Root** node > **Component Services** > **Computers** > **My Computer**.
4. Right-click **My Computer** and then select **Properties**.
5. Select the **Default Properties** tab.
6. Change **Default Authentication Level** from **Connect** to **Packet Integrity**.
7. Select **OK**.

NOTE: If you have problems with these settings, please contact technical support.

2.5 Local Security Policy

1. In the search box on the taskbar, enter **control panel**, and then select **Control Panel**.
2. Select **Administrative Tools** > **Local Security Policy**.
3. From the left panel, expand the **Security Settings** node > **Local Policies** > **Security Options**.

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4. From the right panel, right-click **Network access: Sharing and security model for local accounts**, and then select **Properties**.
5. Select **Classic - local users authenticate as themselves** if it is not already selected.
6. Select **OK**.
7. Close all windows and reboot the computer.

2.6 Connection to third-party OPC Server fails

If the connection to a third-party OPC Server (located on the Connection Server) fails:

1. Right-click the **Start** button > **Run**.
2. Enter **dcomcnfg** and select **OK**.
3. From the left panel, expand the **Console Root** node > **Component Services** > **Computers** > *OPC-Server name*.
4. Right-click the *OPC-Server name* then select **Properties**.
5. Select the **Identity** tab.
6. Change the account setting of a user who has sufficient rights in **dcomcnfg** and exists on both the Login Server and Connection Server (for example, "**MgtS-Service**" user).
7. Select **OK**.

NOTE: If the third-party OPC Servers do not use the standard security settings, add the new user to **Default Access Permission** and **Default Launch Permission** of the OPC Servers. Run the **dcomcnfg** app and view the properties of the respective OPC Servers in the list.