

BVMS-BIS Connectivity

BVMS - BIS Connectivity

en Installation Manual

Table of contents

1	Short Information	4
2	System Overview	5
2.1	BVMS OPC Server events	6
2.2	BVMS OPC Server commands	9
2.3	Client-to-client proxy commands	10
3	Installation	11
4	Configuration on the client workstation	13
5	Configuring BVMS	14
6	Configuring BIS	16
6.1	Example configuration 1	18
6.2	Example configuration 2	18
7	Starting and stopping the system	21
8	Troubleshooting	22
8.1	Problems with starting the clients	22

1 Short Information

This document describes the settings you must perform after having installed BIS and BVMS. Ensure that the installations of BIS Server and BVMS Management Server were performed successfully on separate computers.

2 System Overview

A BVMS-BIS connection consists of at least two computers on the same network. There are two options to configure a BVMS-BIS connection:

		Option 1	Option 2	
Ονε	erview	$1 \qquad \boxed{-} \qquad \underbrace{-} \qquad -$	$1 \qquad $ $2 \qquad $ $3 \qquad $ $4 \qquad $	
Cor	nputer A	Runs a BVMS Operator client, a BIS client and a BVMS Management Server (further clients running this software combination can be added to the BVMS-BIS connection)	Runs a BVMS Operator client and a BIS client (further clients running this software combination can be added to the BVMS-BIS connection)	
Cor	nputer B	Runs a BIS login server	Runs a BVMS Management Server	
Cor	nputer C	-	Runs a BIS login server	
1	BIS Client, BVMS Client			
2	Network			
3	BIS Server			
4	BVMS Management Server			

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Notice!

You cannot connect BIS with a BVMS Enterprise System. This means that you can only connect BIS with one specific BVMS Management Server. This Management Server can nevertheless be **part** of an Enterprise System.

General notes on topology of the connection

Only one BVMS - BIS connection can be established per BVMS Management Server. The BVMS - BIS connection establishes a link between one BIS Server and one BVMS Management Server. In a BVMS Enterprise system, several of these 1-to-1 connections can be available.

BVMS OPC Server runs on the BVMS Management Server. It is part of the BVMS Installation. The same BIS server can connect to different BVMS servers.

Notice!

Summary: notes on topologies version manually.

Install BIS Server and BVMS Management Server on separate computers. Do not use 'No Touch Deployment' to install a new BVMS Operator Client version. Install this When updating to a new version of BVMS it can happen that Setup stops with the message that the OPC Server cannot be installed. If such a message occurs, remove OPC Core

Notice!

The BVMS - BIS OPC server cannot process duplicate device names Ensure that the BVMS configuration file that you export contains no duplicate names. Rename any such devices before exporting the configuration for BIS. As a precaution Bosch recommends that you use the device tree in BVMS to give unique

numerical suffixes to encoder node names, for example when adding multiple ONVIF cameras of the same type and name.

2.1 **BVMS OPC Server events**

OPC server notifies state changes on the BVMS side with AE events to the BIS system. OPC Server events describe the notified values.

The following table lists all events that BVMS OPC Server can generate.

Components Redistributable and start BVMS Setup again.

Entity Type	Event Name	State Value	State Id	
Camera / Signal Presence				
Camera	SignalPresenceState	Unknown	0	
Camera	SignalPresenceState	Present	5	
Camera	SignalPresenceState	NotPresent	353	
Camera / Brightness				
Camera	SignalTooBrightState	SignalOK	5	
Camera	SignalTooBrightState	Signal-NotOk	360	
Camera	SignalTooDarkState	SignalOK	5	
Camera	SignalTooDarkState	Signal-NotOk	361	
Camera / Noise				
Camera	SignalTooNoisyState	SignalOK	5	
Camera	SignalTooNoisyState	Signal-NotOK	362	

Entity Type	Event Name	State Value	State Id
Camera / Too blurry			
Camera	SignalTooBlurryState	SignalOK	5
Camera	SignalTooBlurryState	Signal-NotOK	377
Camera / Motion			
Camera	MotionDetection	Motion Detected	367
Camera	MotionDetection	Motion Stopped	363
Camera / Recording Mode			
Camera	RecordingMode	Alarm	365
Camera	RecordingMode	None	364
Camera	RecordingMode	Manual	365
Camera	RecordingMode	Continuous	368
Camera	RecordingMode	Motion	367
Camera / Visibility			
Camera	VisibilityState	On	790
Camera	VisibilityState	Off	791
Camera / Protected Recording			
Camera	ExternalData	Protected	792
Camera	ExternalData	Unprotected	793
Camera / Global Change			
Camera	GlobalChangeState	Global Change not detected	378
Camera	GlobalChangeState	Global Change detected	379
Relay			
Relay	RelayState	Relay Error	27
Relay	RelayState	Relay Closed	301
Relay	RelayState	Relay Opened	300

Entity Type	Event Name	State Value	State Id
Input			
Input	InputState	Input Error	27
Input	InputState	Input Closed	24
Input	InputState	Input Opened	25
Virtual Input			
Virtual Input	InputState	Input Closed	24
Virtual Input	InputState	Input Opened	25
Encoder			
Encoder	ConnectionState	NotAuthorized	0
Encoder	ConnectionState	Connected	25
Encoder	ConnectionState	Disconnected	24
Decoder			
Decoder	ConnectionState	NotAuthorized	0
Decoder	ConnectionState	Connected	25
Decoder	ConnectionState	Disconnected	24
IntrusionPanel / Area			
IntrusionPanelArea	AreaState	Armed	304
IntrusionPanelArea	AreaState	Disarmed	307
IntrusionPanel / Door			
IntrusionPanelDoor	IntrusionPanelDoorState	Locked	314
IntrusionPanelDoor	IntrusionPanelDoorState	Unlocked	313
IntrusionPanelDoor	IntrusionPanelDoorState	Secured	315
IntrusionPanel / Point			
IntrusionPanelPoint	IntrusionPanelAlarmState	Normal	5
IntrusionPanelPoint	IntrusionPanelAlarmState	Alarm	1000
IntrusionPanelPoint	IntrusionPanelAlarmState	Bypassed	2818
IntrusionPanelPoint	KeypadPanicAlarmState	Normal	5

Entity Type	Event Name	State Value	State Id
IntrusionPanelPoint	KeypadPanicAlarmState	Alarm	1191
IntrusionPanelPoint	KeypadPanicAlarmState	KeypadPanicAlarmState Bypassed	
IntrusionPanelPoint	DoorLeftOpenedState	Normal	5
IntrusionPanelPoint	DoorLeftOpenedState	Alarm	1059
IntrusionPanelPoint	DoorLeftOpenedState	Bypassed	2818
IntrusionPanelPoint	FireAlarmState	Normal	5
IntrusionPanelPoint	FireAlarmState	Alarm	1086
IntrusionPanelPoint	FireAlarmState	Bypassed	2818
IntrusionPanelPoint	GasAlarmState	Normal	5
IntrusionPanelPoint	GasAlarmState	Alarm	1106
IntrusionPanelPoint	GasAlarmState	Bypassed	2818
IntrusionPanelPoint	MedicalAlarmState	Normal	5
IntrusionPanelPoint	MedicalAlarmState	Alarm	1156
IntrusionPanelPoint	MedicalAlarmState	Bypassed	2818

Table 2.1: BVMS OPC Server Event Details

BVMS Proxy Error	Event Name	State Identifier				
Command forwarding failures						
Command forwarding failed	Target device GUID	27				
BVMS connection failures						
Connection to BVMS server down	Empty GUID	-1				
Connection to BVMS reestablished	Empty GUID	-1				

 Table 2.2:
 BVMS OPC Server / BVMS Proxy Error Events

2.2

BVMS OPC Server commands

The following table lists the commands that you can send with OPC Server:

Target	Command	Description
Camera	Start Recording	Triggers manual recording start for a specific camera
	Stop Recording	Triggers manual recording end for a specific camera
	Start Pan Left	Pans a PTZ camera to the left.
	Start Pan Right	Pans a PTZ camera to the right.
	Start Tilt Up	Tilts a PTZ camera up
	Start Tilt Down	Tilts a PTZ camera down

Target	Command	Description
	Start Zoom In	Zooms a PTZ camera in
	Start Zoom Out	Zooms a PTZ camera out
	Stop PTZ Stops the current PTZ action, wh was panning, tilting or zooming	
	Go to Pre-position	Points a PTZ camera in a direction that was defined in BVMS
Relay	Open	Opens the relay
	Close	Closes the relay
Virtual Input	Open	Opens the virtual input
	Close	Closes the virtual input

Table 2.3: List of commands (OPC Server)

2.3 Client-to-client proxy commands

Some commands like Show Live Image or Playback are forwarded directly to the BVMS Client via BVMS Proxy without OPC Server.

The following table lists the available commands that can be forwarded from the BIS client to BVMS via BVMS Proxy.

Target	Command	Parameter	Description
Camera	ShowLive		Triggers live display of a specific camera
	Playback	Duration as unsigned Integer	Triggers playback of a specific camera, Duration: Playback rewind time in seconds
Operator Client	LaunchOperatorClient		Starts the BVMS Operator Client, Login: BVMS user
	TerminateOperatorClient		Exits the BVMS Operator Client
	CloseCameo	Selected <monitorid> All</monitorid>	Closes one or all Image panes
	SetCameo-Space-Granularity	<monitorid> <granularity></granularity></monitorid>	Sets the Image pane pattern
Sequence	Start Sequence		Loads a camera sequence that was defined in BVMS. Display starts immediately
	Stop Sequence		Unloads the current sequence

Table 2.4: List of commands (BVMS Proxy)

3 Installation

On the BVMS management server

- 1. On the BVMS Management Server computer, as administrator
 - install BVMS software (at least Management Server and Configuration Client).
 Note: OPC Server and OPC Core Components are installed automatically (version 3.0).
 - Register the BVMS OPC Server (run the following tool as Administrator: <Program directory>\Bosch\VMS\bin\RegisterBvmsOpcServer.exe).
 Confirm the password for the mgts-service user configured above.
 - Configure your BVMS (see *Configuring BVMS, page 14*).

Notice!

Export BVMS configuration data every time you change the configuration.

Notice!

Manual export of OPC configuration data required after BVMS update Only for BVMS version 7.0 and older!

After an update of the BVMS software export the OPC configuration.

In the BVMS Configuration Client click **System** menu > **Export Device Information for OPC** If you fail to do this, the new BVMS version will not find a BVMSConfig.xml file and the file's OPC items will not be visible to the OPC clients in the network

On the BIS login server

- 1. On the BIS server, install a suitable BIS version. See *BVMS BIS compatibility matrix,* page 12
- 2. Log on to BIS login server as MgtS-Service.
- 3. Start the BIS Configuration Browser and modify or create a configuration.
- 4. Still in the BIS Configuration Browser add the BVMS node and OPC Server as a connection server . Proceed as follows:
 - Select Administration > Server structure and add the name of the BVMS server computer in the Additional connection server pane.
 - Select **Connections** > **Connection servers** pane.
 - In that pane select the BVMS server you have just added and select Add subsystem from its context menu, or the + button
 - Select **BVMS** from the subsystem menu. After selecting, make sure that the lightbulb icon next to it is lit, and labeled **OPC server detected**.
 if not, see **Notice** panel below.
 - Click Connect.
 - Click Add all items.
 - Click Apply.
- 5. Save and load the configuration

Notice!

OPC server detected | OPC server missing

If the light-bulb icon is not lit, and labeled **OPC server missing**, it means that the OPC server has not been found on the network. Possible causes to investigate are - Wrong DCOM configuration

- Network hardware or software failure
- Firewall restrictions

On the BIS / BVMS joint client

On the BIS/BVMS **joint client** computer proceed as follows:

- 1. Configure the BIS client and its Internet Explorer settings as per the BIS installation Manual, (client configuration section).
- 2. Install BVMS software. Select a version of the Operator Client based on the compatibility matrix below: *BVMS BIS compatibility matrix, page 12.*

Notice!

Before starting the BIS client for the first time, start the BVMS Operator Client at least once (i.e. start, select the Central Server and log on).

Reason: if Operator Client is not started before starting BIS client, it will be unclear to which BVMS the Central Server should connect, and this in turn will cause the invocation of BVMS commands from the BIS client to fail.

BVMS - BIS compatibility matrix

The combinations marked with X have been especially tested for compatibility. Other combinations may be compatible, but this is not guaranteed.

	BVMS						
	10.0	10.0.1	10.1	11.0	11.1.1	12.0	12.0.1
BIS 4.6	Х	Х	Х				
BIS 4.7	Х	Х	Х				
BIS 4.8		Х	Х	Х	X	Х	
BIS 4.9				Х	Х	Х	Х
BIS 5.0							Х

4

Configuration on the client workstation

On the joint client workstation (BVMS Operator Client and BIS Client)

- The client workstation requires two video ports for its two monitors: one for BVMS, the other for BIS.
- Make the required settings for Internet Explorer.
 - See the BIS Installation Manual, section: Configuring BIS clients and optional tools
- If the client computer has multiple network adapters installed, enter the IP address of the LAN network adapter manually in

<program directory>\Bosch\VMS\AppData\Bosch.VMS.BISProxy.settings.cxml Since this file contains credentials for BVMS, it is encrypted. To be able to change any value, run the <Installation directory>\Bosch\VMS\bin\XMLConfigurationEncryption.exe file and open the BVMS Proxy configuration file. After changing the values, you can encrypt and safe the settings. When first changing the settings, you have to provide a password for the file.

- Insert the password for the administrator account for the BVMS server credentials SKD (user Admin in this example) between the xml tags in the line <Login>Admin</Login> <Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Password></Pas
- Insert the password for the administrator account for the BVMS client credentials (user Admin in this example) between the xml tags in the line <BvmsLogin>Admin</ BvmsLogin> <BvmsPassword></BvmsPassword>
- Insert this user name and password in the same file on the BVMS Management Server where the OPC Server is installed. It is located in a directory with the same name.

BVMS Proxy Logging Configuration Files

The BVMS Proxy logging configuration files are automatically installed on the BVMS client machine and the BVMS server machine (e.g. in <Installation

directory>\Bosch\VMS\AppData\BISProxyLogCfg.xml on the client computer, and in <Installation directory>\Bosch\VMS\AppData\BISProxyLogCfgForServer.xml on the BVMS server computer). This files configure the BVMS Proxy Log4Net logging settings.

Configuring BVMS

Notice!

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Avoid the following special characters in device names in BVMS:

- Ensure that the BVMS Central Server and the BVMS Web Service Host services on the BVMS server computer are running. If not, start the services manually.
- Start the BVMS Configuration Client on the BVMS server computer (in the menu Programs: BVMS -> Config Client).
- Add the appropriate devices (for example cameras, encoders, decoders, virtual inputs, ...).
- Configure one or more users for BIS:
 - In BVMS Config Client select the **User Groups** page.
 - Create a new user group and give it an appropriate name, for example **BIS Users**.
 - Add a new user to the group and give it the name **BIS.** Do not enter a password.
 - Add further BIS users as required.
- Configure the user interface settings:
 - In BVMS Configuration Client, select the **User Groups** page.
 - Select the user group with the BIS users in the **User Groups** tree.
 - On the right pane, click **User Interface**.
 - Configure the second monitor as control and alarm monitor. Do not configure the other monitors.
- Click 💾 to save the settings in Configuration Client.
- Click \heartsuit to activate the saved settings.
- After each configuration change, export the BVMS configuration data to BVMS server computer \<Program directory>\Bosch\VMS\bin\BVMSConfig.xml (Click System menu > Export Device Information for OPC).

The configuration will be active after you restart the OPC Server



Notice!

Export BVMS configuration data every time you change the configuration.

DCOM settings

Perform the following steps on the Bosch Video Management System Central Server: Check the security settings of the Bosch BVMS OPC AE Server and Bosch BVMS OPC DA Server component services. Both use the default settings for the COM security of the component services. To start the management application of the component services: Click **Start** -> **Run**. Type dcomcnfg and click **OK**.

Required settings for the access permissions:

- User SELF: Local Access and Remote Access with Allow
- User SYSTEM: Local Access and Remote Access with Allow

- User <Computer Name>\MgtS-Service: Local Access and Remote Access with Allow
- User <Computer Name>\Administrators: Local Access and Remote Access with Allow

Required settings for the launch and activation permissions:

- User INTERACTIVE: Local Launch, Remote Launch, Local Activation and Remote Activation with Allow
- User SYSTEM: Local Launch, Remote Launch, Local Activation and Remote Activation with Allow
- User <Computer Name>\MgtS-Service: Local Launch, Remote Launch, Local Activation and Remote Activation with Allow
- User <Computer Name>\Administrators: Local Launch, Remote Launch, Local
 Activation and Remote Activation with Allow

6 Configuring BIS

Perform the following steps in the BIS Configuration Browser.

- Ensure that the same users (with the same-passwords) are configured in BIS and BVMS.
- Find out which of the standard html files your BIS installation has set for the client's monitor. Proceed as follows:
 - Click Administration > Operators > Pane: Operator Profile
 - Click the Manage... button
 - Note the html file names of the Default Page for the various operators, e.g. indexWide.htm
- The HTM files will be found below the folder for the current configuration, e.g. C:\MgtS\Customer_Configuration\<MYCONFIGURATION>\Documents\
- Open the HTML documents in a text editor, and uncomment the following commented line to enable JavaScript:

```
<!--<script language=""Jscript.Encode" src="../Mgt/Platform/
Commands.js"></script>-->
```

After editing, the line should look like the following:

```
<script language=""Jscript.Encode" src="../Mgt/Platform/Commands.js"></
script>
```

Go to **Connections** > **Connection servers** and select the Connection server you have set up for BVMS. See *On the BIS login server, page 11*.

- Click the **Connect** button above the **OPC server (available elements)** pane to browse the namespace of the OPC server.
- Click Add all items.
- Click Apply.
- Click the **Disconnect** button
- Save the configuration
- -

😫 BIS Configuration Browse	۲ ۲			_ 🗆 🔀
File Edit Extras Help				
+ × P	🗸 Apply	Discard		BOSCH
CUBALIBRE WIESNER001	OPC server (available elements	s) Disconnect	BIS addresses (chose	en elements)
		20	Delete all no	odes
Administration	⊕ 👆 Decode ⊕ 😋 Encode ∰ Error ite	ers ers em	Get detecto	or types definitions from serve
Tocations	eren en e	nouts	Get all desc Get all dete	riptions from server ctor types from server
Connections	Properties of 'BVMS'		Properties of 'BVMS'	target devices from server
infrastructure	Name AF class ID	Value	Group	+ 🛃
General settings	AE description AE OPC specific	Bosch BVMS OPC AE Serve Alarms and Event 1.XX	Dead band:	0.01
🔁 Logging / Protocol	AE prog ID AE vendor prog ID DA class ID	Bosch.OPCServer.BVMS.AE Bosch.OPCServer.BVMS.AE 47e01f95-c93d-4e64-994f-8	Update rate: Addresses:	300
Tools	DA description DA OPC specific DA prog ID	Data Access 3.00 Bosch.OPCServer.BVMS.DA		
*				
🎦 BIS	Ready	12 C:\MgtS\Customer_Configural	tion/Neuer Ordner	

6.1 Example configuration 1

How to trigger video display by a state-change at a camera's address

- For each address where a camera is to be displayed upon a state change at a particular address, create an Association (Job) with its Trigger.
- In the **THEN** part of the Association, select the **Address** of the camera to be displayed.
- Select the check box Use address of trigger
- In the **Command** text field, select the **BVMS.Show Live** command.

The following screenshot shows an example configuration for an Association that displays video from a camera when a state-change occurs at the camera's address:

😹 BIS Configuration Browser		
File Edit Extras Help		
🖡 Virtual device 🖌 Apply 🔀 Discard	BOSCH	
Address lists		
Timer Associations		
Associations Condition: New Bename	Trigger of type: 'Address' - Name: 'Unnamed'	
8 ¹ Counters Control: Now Delete	Address	
	BVMS.Cameras.Kamera 1 (140 10 2 140)	
Jobs	_	
⊕ ✓ ∰ Job: "Systemmessages' ⊕ ✓ ∰ Job: "Banel messages'	All detectors of this group	
🕀 🔽 🦉 Job: 'Receiver messages'	group included	
E - I Intrusion'	All sensors of this group	
⊕ 🔽 🛃 Job: 'Welcome'	Transition of state	
⊡… ⊽ ∰ Job: 'Test1'	from to	
i I and the state of the s	=	
BS administ	THEN of type: 'Address' - name: "	
Automista		
The second secon		
	Address:	
Connecti	BVMS.Cameras.Kamera 1 (140 10 2 140)	
Infrastru	I♥ Use address or (rigger	
New Hename Delete	Д	
C Logging	V	
	Command	
Tools		
>> Variable	BVMS.Show Live	
💼 BIS Ready 💝 L:\MgtS\Lustomer_Lontiguration\Neuer Urdner		

6.2 Example configuration 2

How to display video automatically when an operator accepts an alam message

- The Miscellaneous document BVMSShowLive.htm is displayed after accepting an alarm message. Customize the content of this file if required, but do not use a different file. You find the file in <Current Configuration>\Documents\Misc.
- In the BIS Configuration Browser, add BVMSShowLive.htm to the location tree (Locations Outlook bar > Documents pane > / Modify button).



😫 BIS Configuration Brows	er	
File Edit Extras Help		
🖬 Divisions	Apply 🔀 Discard	
臣 ₃ Tree structure		
Detector placement <	Location tree New Rename Delete Division: Common Image: Common in the second sec	Graphic file File name: Logo.dwf Graphics detail: INITIAL Layer Modify Name When shown (alarm location 0 Always Documents Modify Documents Modify Name Document type Video_Query Miscellaneous BVMSShowLi. Miscellaneous BVMSShowLi. Miscellaneous
×	<	
🎦 BIS	Ready 🔀 C:\MgtS\Customer_Configuration\	Neuer Ordner

Figure 6.1: BIS Configuration Browser - BVMSShowLive.htm

The video display is triggered by a BIS **Association** (Job). Proceed as follows in the BIS Configuration Browser to create the Association:

- Click the **General settings** Outlook bar > **Associations** menu.
- Create an Association with a trigger of type Address
- In the **THEN** part of the Association, select the **Message** object.
- For the message, select the address of the camera to be displayed in the Monitored by camera field.
- In the document selection dialog box, select the Miscellaneous document emptyDocument.htm.
- The following screenshot shows an example Association that displays a video image after the operator has accepted the corresponding alarm message:

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BIS Configuration Browser	_ 🗆 🛛		
File Edit Extras Help			
Virtual device Apply Address lists	BOSCH		
Timer Associations	^		
Associations Condition: New Bename Trigger of type: 'Address' - Name: 'Testtrigger1'			
Control: New Delete			
	virtuell 🔜 📄		
Administ			
Locations Job: 'Receiver messages' All detectors of this device			
Connecti Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state Image: Solution of the state Image: Solution of state			
Infrastru			
THEN of type: 'Message' - name: "			
Logging IV Use address of trigger Monitored by camera BVMS.Cameras.Kamera 1	 (140 10 2 140); 😱		
👔 BIS Ready 🔀 C:\MgtS\Customer_Configuration\Neuer Ordner			

7 Starti

Starting and stopping the system

- Starting the client
 - Start the BIS Client on a workstation by starting Internet Explorer with the localhost URL and logging on to BIS. The BVMS Operator Client will automatically be started on the second monitor of the workstation.
- Stopping Client
 - Stop the BIS Client with the BIS **Exit** button. When asked to confirm by the BVMS Operator Client, click **Yes**.

8 Troubleshooting

8.1 **Problems with starting the clients**

When you start the BIS Client the BVMS Operator Client is started automatically without displaying the logon dialog of the BVMS Operator Client.

This automatic start can fail in some cases:

- Starting the BIS Client immediately after the installation of BVMS (no BVMS Server is set) Symptom: The logon dialog of BVMS Operator Client is displayed.
- Starting the BIS Client while BVMS-Server is not available (network is disconnected or the server is not started).

Symptom: The logon dialog of BVMS Operator Client is displayed.

- Starting the BIS Client with invalid credentials

The logon dialog of BVMS Operator Client is displayed. Invalid Credentials means either:

- The BVMS User who was entered in the BIS Logon dialog does not exist.
- There is a BVMS User, but a password has been set for this user.
- The OPC Server license has not been activated.

Notice!

If the logon dialog of the BVMS Operator Client is displayed during startup of the BIS Client, one the above is the likely cause.

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