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Release Notes
BVMS 12.1.0 Updates SystemManager package

Date: 20-Jun-2024

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1 Document History

> This document is distributed online and updated on regular basis, whenever new patches are released and added to the package. The latest version of this document is always available on the Bosch Security and Safety Systems Download Store.

Date	Version	Changes
26.03.2024	1.0	Initial release - for BVMS Cumulative Patch 3
25.04.2024	1.1	Updated for BVMS Cumulative Patch 4 + VRM 4.31
04.06.2024	1.2	Updated for BVMS Cumulative Patch 5 + VSG 9.1.4.2
20.06.2024	1.3	Updated for BVMS Cumulative Patch 8

2 BVMS 12.1.0 Updates System Manager package

DIVAR IP System Manager application is the central user interface that offers an easy system setup, configuration and application software upgrade for DIVAR IP all-in-one 4000, DIVAR IP all-in-one 5000, DIVAR IP all-in-one 6000 and DIVAR IP all-in-one 7000 (DIP-72xx, DIP-73xx, DIP-74xx) systems.

The BVMS_12.1.0_Updates_SystemManager_package_1.8.zip contains a BVMS 12.1.0 Cumulative Patch 8 patch installer software package for the DIVAR IP System Manager application. It also contains updated VRM and VSG installer software packages for the DIVAR IP System Manager application. It is used to install the patch and other updated components for BVMS 12.1.0 on the DIVAR IP appliances managed by the DIVAR IP System Manager.

2.1 Installation prerequisites and operation notes

- DIVAR IP System Manager application **version 2.3.0** or higher shall be installed and started.
- To download the BVMS 12.1.0 Updates System Manager package 1.8, go to https://downloadstore.boschsecurity.com/. Then, under the Software tab, select BVMS Appliances from the list and click Select.
- Locate the BVMS_12.1.0_Updates_SystemManager_package_1.8.zip file from the list of all available software packages, and save it to a storage medium such as a USB stick.
- Unzip the files on the storage medium. Do not change the folder structure of the unzipped files.
- Connect the storage medium to your DIVAR IP system and follow instructions in the Upgrading software section of, for example, DIVAR IP all-in-one 4000 / 6000 systems User Manuals to install desired BVMS patches or components updates on your DIVAR IP.

2.2 List of components, compatible with BVMS 12.1.0, available in the package

- VRM 4.31.0022, refer to corresponding release notes
- VSG 9.1.4.2, refer to corresponding release notes

2.3 Known limitations and issues

- After installing the patch, it is necessary to initiate a configuration change on the server side, activate the new configuration, and then log in again with your user account. Additionally, make sure to restart all running Operator Client instances to apply the newly activated configuration.

3 BVMS 12.1 - Cumulative Patch history

No.	Patch version	Release Date
1	Cumulative Patch 1	11.01.2024
2	Cumulative Patch 2	*not released*
3	Cumulative Patch 3	27.03.2024
4	Cumulative Patch 4	17.04.2024
5	Cumulative Patch 5	14.05.2024
6	Cumulative Patch 6	27.05.2024
7	Cumulative Patch 7	07.06.2024
8	Cumulative Patch 8	14.06.2024

4 Patches included in the Cumulative Patch 8 for BVMS 12.1

4.1 Overview

No.	Name of the fix	Included in
1	440029 - Filtering PTZ commands	Cumulative Patch 8, 7, 6, 5, 4, 3, 1
2	441937 - Slowing down MP4 exported video	Cumulative Patch 8, 7, 6, 5, 4, 3
3	445686 - Delay in the first PTZ movement	Cumulative Patch 8, 7, 6, 5, 4, 3
4	448513 - Operator Client login issue and server stability after the restart or activation of configuration	Cumulative Patch 8, 7, 6, 5, 4, 3
5	449787 - Operator Client crashes randomly due to memory errors	Cumulative Patch 8, 7, 6, 5, 4
6	446227 - Config Client displays black event setting page	Cumulative Patch 8, 7, 6, 5
7	448960 - Zoom out problems for the cameras with "Image pane optimized" view	Cumulative Patch 8, 7, 6, 5
8	452047 - Some BVMS events missing in the OPC server	Cumulative Patch 8, 7, 6, 5
9	454258 - State update of Virtual Inputs	Cumulative Patch 8, 7, 6
10	455490 - ePTZ presets for ONVIF panoramic cameras	Cumulative Patch 8, 7
11	456966 - High CPU load of the Operator Client	Cumulative Patch 8
12	456180 - Improved opening of multiple cameras	Cumulative Patch 8

4.2 Detailed Release Notes for the patch

Patch ID:	456180, 456966, 455490, 454258, 446227, 448960, 452047, 449787, 448513, 445686, 441937, 440029
Patch Title:	BVMS 12.1 - Cumulative Patch 8
Patch Target Version:	BVMS-12.1.0.414

4.2.1 Patch Details:

This patch fixes issue 456180 by improving the procedure to open multiple cameras in Operator Client with GPU decoding.

This patch fixes issue 456966 by preventing high CPU load on the Operator Client if network problems are available (packet loss).

This patch fixes issue 455490 by enabling camera presets for Onvif panoramic cameras in Config Client.

This patch fixes issue 454258 by improving the state update of virtual inputs.

This patch fixes issue 446227 by solving the issue of a black event settings page in Config Client.

This patch fixes issue 448960 by fixing zoom issues in the area of "image pane size optimized" view in Operator Client.

This patch fixes issue 452047 by adding missing camera OPC events ("GlobalChange", "Blurry" and "ReferenceImage").

This patch fixes issue 449787 by improvements in the area of memory consumption of Operator Client.

This patch fixes issue 448513 by improving the login process to the Operator Client.

Important hints:
The Patch for issue 448513 needs to be installed on the Management Server. It is optional for the Operator Client machines only if further problems occur.

NOTE - Manual action required:
After installing the patch, it is necessary to initiate a configuration change on the server side, activate the new configuration, and then log in again with your user account.
Additionally, make sure to restart all running Operator Client instances to apply the newly activated configuration.

This patch fixes issue 445686 by improving the session handling for the PTZ connection.

This patch fixes issue 441937 by improvements in the area of mov-/mp4-exports.

This patch fixes issue 440029 by filtering out same zoom commands and optimizes PTZ command frequency with granularity adjustment.
The granularity for pan and tilt movements can be set in the OperatorClient.exe.config file. The key is "PtzGranularity" and its default value is "10".
It specifies the smallest step size for the pan and tilt speed adjustments.
Lower values allow for finer control, while higher values result in coarser adjustments.

Important hint:
Please use only allowed values for the "PtzGranularity", which are: 1, 2, 4, 5, 10, 20, 25, 50, 100

4.2.2 Problem Details:

Issue 456180 caused a delay when opening multiple cameras from favorites in Operator Client.

Issue 456966 caused a high CPU load on the Operator Client if network problems are available (packet loss).

Issue 455490 caused the problem that no camera presets could be saved in Config Client for Onvif panoramic cameras.

Issue 454258 caused the problem that the state of virtual inputs does not update correctly unless you are in the logical tree or when you move to the logical tree.

Issue 446227 caused the problem that the Config Client shows black event settings page after changing some events and then go to external data and try to change settings too.

Issue 448960 caused the problem that some cameras have issues with zoom out while using "image pane size optimized" view.

Issue 452047 caused the problem that camera OPC events are missing.

Issue 449787 caused the problem that the Operator Client crashes randomly due to memory errors.

Issue 448513 caused the problem that the login to the Operator Client has a very high delay, especially after the activation of new configuration.

Issue 445686 caused the problem of a delay in starting the first PTZ movement.

Issue 441937 caused the problem that in mov- or mp4-exports the video is shown with low frame frate and either delayed or no audio.

Issue 440029 caused the problem that the Video Stream stops while giving PTZ commands.

4.2.3 Affected Bosch VMS Components / Machines:

- Bosch VMS Management Server
- Bosch VMS Operator Client
- Bosch VMS Configuration Client
- Bosch VMS Cameo SDK

4.2.4 List of Replaced Files:

- AppData\Client\OpClient\Components\Spring.Bootstrap.xml
- AppData\Shared\Spring.HashEngine.xml

- Bosch.Cctv.DeviceApi.dll [Version 12.1.0.437]
- Bosch.Vms.BISProxy.dll [Version 12.1.0.432]
- Bosch.Vms.CameoSdk.Core.dll [Version 12.1.0.422]
- Bosch.Vms.Client.ConfigClient.ScanWizard.Imp.dll [Version 12.1.0.437]
- Bosch.Vms.Client.OpClient.Ptz.PtzController.dll [Version 12.1.0.422]
- Bosch.Vms.Client.OpClient.VideoComp.Impl.dll [Version 12.1.0.433]
- Bosch.Vms.Client.Shared.PtzController.dll [Version 12.1.0.415]
- Bosch.Vms.Config.AlarmConfiguration.dll [Version 12.1.0.434]
- Bosch.Vms.Config.DomeSettingsUserControls.dll [Version 12.1.0.437]
- Bosch.Vms.Config.RecordingSettingConfig.dll [Version 12.1.0.437]
- Bosch.Vms.Config.Reporting.dll [Version 12.1.0.434]
- Bosch.Vms.Frontend.ConfigClient.Common.dll [Version 12.1.0.437]
- Bosch.Vms.Frontend.OpClient.Communication.dll [Version 12.1.0.422]
- Bosch.Vms.Frontend.OpClient.ObjectStateTable.Imp.dll [Version 12.1.0.436]
- Bosch.Vms.Frontend.OpClient.ServerManagement.dll [Version 12.1.0.426]
- Bosch.Vms.Frontend.OpClient.StateService.dll [Version 12.1.0.436]
- Bosch.Vms.Frontend.OpClient.Wcf.dll [Version 12.1.0.436]
- Bosch.Vms.Frontend.Shared.ConfigurationApi.dll [Version 12.1.0.437]
- Bosch.Vms.Server.UserAuthenticationService.dll [Version 12.1.0.426]
- Bosch.Vms.Shared.Dome.Services.dll [Version 12.1.0.422]
- Bosch.Vms.Shared.Export.Mpeg.ArchiveStreamProvider.dll [Version 12.1.0.416]
- Bosch.Vms.Shared.Export.Mpeg.FfMpegFacade.dll [Version 12.1.0.416]
- BVMSOpcServer.exe [Version 12.1.0.432]
- DecoderLibrary.dll [Version 2.12.1.200]
- ObjectRepository.Packages.Onvif.dll [Version 12.1.0.437]
- OperatorClient.exe.config