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Release notes
BVMS 12.0.1 Updates SystemManager package

Date: 21-May-2025

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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
19.01.2024	1.0	Initial release
25.04.2024	1.1	Update for package version 1.1
20.09.2024	1.2	Update for package version 1.2
19.11.2024	1.3	Update for package version 1.3
21.05.2025	1.4	Update for package version 1.4

2 BVMS 12.0.1 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) systems.
The BVMS_12.0.1_Updates_SystemManager_package_1.4.zip contains a set of BVMS 12.0.1 patch installers software packages for the DIVAR IP System Manager application. It also contains updated VRM installer software package for the DIVAR IP System Manager application. It is used to install patches and other updated components for BVMS 12.0.1 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 2.4.0** or higher shall be installed and started.
- To download the BVMS 12.0.1 Updates System Manager package 1.4, go to https://downloadstore.boschsecurity.com/. Then, under the Software tab, select BVMS Appliances from the list and click Select.
- Locate the BVMS_12.0.1_Updates_SystemManager_package_1.4.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 on your DIVAR IP.

2.2 List of components, compatible with BVMS 12.0.1, available in the package

- VRM 4.21.0037, refer to corresponding release notes

2.3 Known limitations and issues

- If DIVAR IP System Manager application version 1.5.0 is used, it may become non-responsive while updating the user interface data, if many packages are installed. To avoid this, make sure you update DIVAR IP System Manager application to version 2.4.0 or above. Please see corresponding release notes for this application.

3 Release Notes for individual patches
3.1 428234 - OC crash transcoding stream

Patch ID:	428234
Patch Title:	OC crash transcoding stream
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 428234 preventing the Operator Client to crash.
Problem Details:
Issue 428234 caused the problem that the Operator Client crashes when changing the stream to Transcoder.
Affected Bosch VMS Components / Machines:
- Bosch VMS Operator Client
- Bosch VMS Config Client
- Bosch VMS Management Server
List of Replaced Files:
- GCA2.dll [Version 6.30.9.29441]

3.2 429121, 418648, 425002 - FW8.90 improvements, capabilities not up to date or devices could not be added or red

Patch ID:	429121, 418648, 425002
Patch Title:	FW8.90 improvements, capabilities not up to date or devices could not be added or red
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 437547 by preventing the Configuration Client to crash during an onvif device scan.
This patch fixes issue 429121 (including 428843, 429118, 429121, 429283, 432574 and 432588) by improving the Config Client and Config Wizard in the area of FW 8.90.
This patch fixes issue 418648 by correcting the calculation of whether the capabilities of an encoder are the same.
This patch fixes issue 425002 by updating encoder capabilities correctly when camera sensor mode (frame rate) changed.
This patch fixes issue 433376 by discovering the type of a camera correctly.
This patch fixes issue 433383 by updating the device capabilities correctly, when adding via Config Wizard.
Problem Details:
Issue 437547 caused the problem that the Configuration Client may crash during an onvif device scan.
Issue 429121 (including 428843, 429118, 429121, 429283, 432574 and 432588) caused several problems related to FW 8.90 when trying to add and authenticate these devices.
Issue 418648 caused the problem that the update of device capabilities always generated a mismatch when older encoders (e.g. Autodome 700) where replaced by newer multi-sensor encoder, although update was executed.
Remark: If old device was using the codec "H.264 MP (Low Latency)" the codec of the new camera will not be updated in the UI in the Cameras&Recording tab. Nether the less the configuration is done correctly.
To avoid this delete the old camera and add new camera from scratch.
Issue 425002 caused the problem that the device capabilities are not up to date after changing the sensor mode settings in Config Client.
Issue 433376 caused the problem that the type of a camera is not discovered, if the camera was added via scan and requires an inital password.

Issue 433383 caused the problem that the device capabilities are not up to date after adding devices via Config Wizard.
Affected Bosch VMS Components / Machines:
- Bosch VMS Config Client
- Bosch VMS Config Wizard
List of Replaced Files:
- AppData\Client\Shared\Spring.Maps.xml
- Bosch.Cctv.VideoApi.dll [Version 12.0.1.388]
- Bosch.Vms.Client.ConfigClient.AddEncoder.dll [Version 12.0.1.388]
- Bosch.Vms.Client.ConfigClient.ScanWizard.Imp.dll [Version 12.0.1.388]
- Bosch.Vms.Config.DeviceStatePinger.dll [Version 12.0.1.388]
- Bosch.Vms.Config.DeviceTree.Extension.AMG.dll [Version 12.0.1.388]
- Bosch.Vms.Config.DeviceTree.Extension.OnvifExtensions.dll [Version 12.0.1.388]
- Bosch.Vms.Config.DeviceTree.Extension.VrmExtensions.dll [Version 12.0.1.388]
- Bosch.Vms.Config.RecordingSettingConfig.dll [Version 12.0.1.388]
- Bosch.Vms.ConfigWizard.ConfigWizardApp.DeviceData.dll [Version 12.0.1.388]
- Bosch.Vms.ConfigWizard.Pages.DevicePasswords.dll [Version 12.0.1.388]
- Bosch.Vms.ConfigWizard.Pages.DeviceSelection.dll [Version 12.0.1.388]
- Bosch.Vms.Frontend.ConfigClient.Common.dll [Version 12.0.1.388]
- Bosch.Vms.Frontend.ConfigClient.Common.If.dll [Version 12.0.1.388]
- Bosch.Vms.Frontend.ConfigClient.Common.Wpf.dll [Version 12.0.1.388]
- Bosch.Vms.Frontend.Shared.ConfigurationApi.If.dll [Version 12.0.1.388]
- Bosch.Vms.Frontend.Shared.Controls.MapControl.dll [Version 12.0.1.388]
- Bosch.Vms.Frontend.Shared.Controls.MapControl.If.dll [Version 12.0.1.388]
- Bosch.Vms.Frontend.Shared.RcppCapabilities.dll [Version 12.0.1.388]
- Bosch.Vms.Frontend.Shared.RcppCapabilities.Imp.dll [Version 12.0.1.388]
- Bosch.Vms.Shared.VideoApi.Support.dll [Version 12.0.1.388]
- ObjectRepository.Packages.Core.dll [Version 12.0.1.388]

3.3 434853, 434801 - Licensing and CentralServer improvements

Patch ID:	434853, 434801
Patch Title:	Licensing and CentralServer improvements
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 434853 by solving the problem that the Central Server do not start after renaming the BVMS configuration file.
This patch fixes issue 434801 by solving a licensing problem.
Problem Details:
Issue 434853 caused the problem that the Central Server do not start after renaming the BVMS configuration file.
Issue 434801 caused the problem that the Systeminfo.json file cannot be downloaded, which leads to a licensing error.
Affected Bosch VMS Components / Machines:
- Bosch VMS Config Client
- Bosch VMS Config Wizard
List of Replaced Files:
- Bosch.Utilities.dll [Version 12.0.1.383]

3.4 419002 - Security Issue

Patch ID:	419002

Patch Title:	Security Issue
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 419002, preventing security issues.
CVE identification numbers:
CVE-2021-3449
CVE-2021-23841
CVE-2020-1971
CVE-2021-4160
CVE-2021-23840
CVE-2022-0778
CVE-2022-2097
CVE-2021-3712
CVE-2021-3711
CVE-2022-2068
CVE-2022-1292
CVE-2023-0465
CVE-2023-0466
CVE-2023-3817
CVE-2022-4304
CVE-2023-2650
CVE-2023-0286
CVE-2023-0464
CVE-2022-4450
CVE-2023-0215
CVE-2023-4807
Problem Details:
Issue 419002 caused a security problem via a vulnerability.
Affected Bosch VMS Components / Machines:
- Bosch VMS Management Server
List of Replaced Files:
- Bosch.VMS.Backend.DeviceAdapter.TattileAdapter.dll [Version 12.0.1.391]
- libcrypto-3-x64.dll [Version 3.0.11.0] exchanges former libcrypto-1_1-x64.dll
- libssl-3-x64.dll [Version 3.0.11.0] exchanges former libssl-1_1-x64.dll
- ntcp.dll [Version 2.2.0.0]
- ntcpsdk.NET.dll [Version 2.2.0.0]
- licenses\opensource\OpenSourceLicenses.txt
- licenses\opensource\component_licenses\tattile_open_source_licenses.txt

3.5 463230, 444625, 441937 - Frame rate mp4 exports

Patch ID:	463230, 444625, 441937
Patch Title:	Frame rate mp4 exports
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 463230 by preventing the Operator Client to crash.
This patch fixes issue 444625 by preventing a buffer underrun error during playback of a recorded 1 fps video stream with audio.
This patch fixes issue 441937 by improvements in the area of mov-/mp4-exports.
Problem Details:
Issue 463230 caused the problem that the Operator Client crashes during playback of multiple cameras.
Issue 444625 caused sometimes a buffer underrun error during playback of a recorded 1 fps video stream with audio.

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.
Affected Bosch VMS Components / Machines:
- Bosch VMS Operator Client
List of Replaced Files:
- Bosch.Vms.Shared.Export.Mpeg.ArchiveStreamProvider.dll [Version 12.0.1.394]
- Bosch.Vms.Shared.Export.Mpeg.FfMpegFacade.dll [Version 12.0.1.394]
- BVIP_VDP_DiBos.dll [Version 3.0.0.20]

3.6 468487, 463247, 462731, 466661, 439653, 462953, 454258, 440210, 438736, 435719 - CC crash clicking the VCA tab - RTOS, Black cameos via SSH, Security

Patch ID:	468487, 463247, 462731, 466661, 439653, 462953, 454258, 440210, 438736, 435719
Patch Title:	CC crash clicking the VCA tab - RTOS, Black cameos via SSH, Security
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 468487 by creating the event with the current UTC time using the BVMS SDK.
This patch fixes issue 463247 by improving the BVMS Management Server (Central Server).
This patch fixes issue 462731 by improving the BVMS Management Server (Central Server).
This patch fixes issue 466661 and 439653 by preventing the Operator Client to crash.
This patch fixes issue 454258 by improving the state update of virtual inputs.
This patch fixes issue 462953 and 440210 by preventing Configuration Client to crash.
This patch fixes issue 438736 by improvements in the area of the SSH connection.
This patch fixes issue 435719, preventing security issues.
CVE identification number:
CVE-2024-33618
Problem Details:
Issue 468487 caused the problem that the time of generating an event and getting the event at the Management Server differs using the BVMS SDK.
Issue 463247 caused the problem that the Management Server (Central Server) sometimes hang.
Issue 462731 caused the problem that the Management Server (Central Server) has sometimes high CPU usage.
Issue 466661 and 439653 caused the Operator Client to crash.
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 462953 and 440210 caused the problem that the Configuration Client crashed when clicking the VCA tab - RTOS cameras.
Issue 438736 caused the problem that a Workstation connected through SSH to the Enterprise Server lose connection to the camera and displays a black cameo.
Issue 435719 caused a security problem via a vulnerability.
Affected Bosch VMS Components / Machines:
- Bosch VMS Management Server
- Bosch VMS Configuration Client
- Bosch VMS Operator Client
- Bosch VMS Cameo SDK
List of Replaced Files:
- AppData\Server\CentralServer\ServerDependenciesInjection.xml
- AppData\Server\WebServices\Spring.ServerSettings.xml
- Bosch.Vms.Backend.CentralServer.WcfServices.DeviceControlService.dll [Version 12.0.1.418]
- Bosch.Vms.Backend.CentralServer.WcfServices.UserPreferenceService.dll [Version 12.0.1.418]
- Bosch.Vms.Config.OffsiteConfig.dll [Version 12.0.1.418]
- Bosch.Vms.Frontend.OpClient.ObjectStateTable.Imp.dll [Version 12.0.1.418]

- Bosch.Vms.Frontend.OpClient.Remoting.dll [Version 12.0.1.418]
- Bosch.Vms.Frontend.OpClient.ServerManagement.dll [Version 12.0.1.418]
- Bosch.Vms.Frontend.OpClient.StateService.dll [Version 12.0.1.418]
- Bosch.Vms.Frontend.OpClient.Wcf.dll [Version 12.0.1.418]
- Bosch.Vms.Server.UserAuthenticationService.dll [Version 12.0.1.418]
- Bosch.Vms.Service.Server.Modules.Vcs.VcsService.dll [Version 12.0.1.418]
- Bosch.Vms.Shared.Communication.UserPreferencesClient.dll [Version 12.0.1.418]
- Bosch.Vms.Shared.UserService.dll [Version 12.0.1.418]
- Bosch.Vms.Shared.UserService.Imp.dll [Version 12.0.1.418]
- Bosch.Vms.Shared.WebServices.Contracts.dll [Version 12.0.1.418]
- BvmsCentralServer.exe.config
- BvmsSshServer.exe [Version 12.0.1.418]
- BvmsSshServer.exe.config
- BvmsWebServiceHost.exe.config
- ConfigClient.exe.config
- ConfigWizard.exe.config
- ObjectRepository.Vms.ImportExport.dll [Version 12.0.1.418]
- OperatorClient.exe [Version 12.0.1.418]
- OperatorClient.exe.config
- Rebex.Common.dll [Version 7.0.8816.0]
- Rebex.FileServer.dll [Version 7.0.8816.0]
- Rebex.Networking.dll [Version 7.0.8816.0]
- Rebex.SshShell.dll [Version 7.0.8816.0]
- Rebex.Terminal.dll [Version 7.0.8816.0]
- VL_ConfigManager.dll [Version 7.70.93.0]

3.7 452047 - OPC events missing

Patch ID:	452047
Patch Title:	OPC events missing
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 452047 by adding missing camera OPC events ("GlobalChange", "Blurry" and "ReferenceImage").
After having the patch applied, add the new addresses to the BIS configuration.
Problem Details:
Issue 452047 caused the problem that camera OPC events are missing.
Affected Bosch VMS Components / Machines:
- Bosch VMS Management Server
- Bosch VMS Operator Client
List of Replaced Files:
- Bosch.Vms.BISProxy.dll [Version 12.0.1.401]
- BVMSOpcServer.exe [Version 12.0.1.401]

3.8 456375 - Multiple Operator Client start

Patch ID:	456375
Patch Title:	Multiple Operator Client start
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 456375 by preventing the Operator Client and its Supervisor to start multiple times.

Problem Details:
Issue 456375 caused the problem that the Operator Client and its Supervisor could be started multiple times (once per user-session).
Affected Bosch VMS Components / Machines:
- Bosch VMS Operator Client
List of Replaced Files:
- Bosch.HostApplication.Api.Support.dll [Version 12.0.1.403]

3.9 474806 - ASP.NET Core 8.0 Runtime

Patch ID:	474806
Patch Title:	ASP.NET Core 8.0 Runtime
Patch Target Version:	BVMS-12.0.1.375

Patch Details:
This patch fixes issue 474806 with ASP.NET Core 8.0 Runtime.
Problem Details:
Issue 474806 needs to install ASP.NET Core 8.0 Runtime.
Affected Bosch VMS Components / Machines:
- BVMS Management Server
List of Replaced Files:
- bin\WSMonitoringService\Bosch.Vms.WorkstationMonitoring.Applications.Backend.ApiWindowsServiceApp.runtimeconfig.json