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Release Notes
BVMS 11.1.1 Updates SystemManager package

Date: 25-Apr-2024

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1 Document History

This document is distributed online and updated on regular basis, whenever new patches or components 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
17.03.2023	1.0	Initial release
08.05.2023	1.1	New patches added. Separate Patch ID 393949 removed, as it became part of Patch ID 405734, 393949, 393486
15.11.2023	1.2	New patches added. Several patches removed as they became part or were substituted by later patches. Updated versions of VRM and VSG are added. To reflect this, package name changed from "Patches" to "Updates"
12.12.2023	1.2 updated	Patch ID 434923, 428521 description updated
19.01.2024	1.3	New patches added. Several patches removed as they became part or were substituted by later patches.
25.04.2024	1.4	New patches added. Updated version of VSG added.

2 BVMS 11.1.1 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_11.1.1_Updates_SystemManager_package_1.4.zip contains a set of BVMS 11.1.1 patch installers software packages for the DIVAR IP System Manager application. It also contains updated VRM and VSG installers software packages for the DIVAR IP System Manager application. It is used to install patches and other updated components for BVMS 11.1.1 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 2.3.0** or higher shall be installed and started.
- To download the BVMS 11.1.1 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_11.1.1_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 or components updates on your DIVAR IP.

2.2 List of components, compatible with BVMS 11.1.1, available in the package

- VRM 4.04.0027, refer to corresponding release notes.
- VSG 8.1.4.1 (incl. ONVIF Camera Event Driver Tool 2.1.1.4), refer to corresponding release notes.
- VSG 8.1.5.2, refer to corresponding release notes.

2.3 List of BVMS 11.1.1 patches available in the package

ID	Description
375802	FIXED: View recording prohibited
382306	FIXED: Dragging camera from OC image pane to MG image pane not working properly
387201	FIXED: Proper load balancing parameters for DIVAR IP all-in-one 4000/6000 as iSCSI target within BVMS
390503, 392474	FIXED: Some SDK functions not working properly in alarm display
393966	FIXED: SDK events missing in SDK EventReceiver

ID	Description
395791	FIXED: Export from DVR might fail
399322	FIXED: Videojet 4000 multi with disabled Audio not configurable
406477	FIXED: CC Monitorgroup configuration slow
411732	FIXED: Workflow dialog opens behind alarm window
413786	FIXED: Frame Rate Config
406338	FIXED: Forensic search CPP 13 14 cam
413813 405734 393949 393486	FIXED: SecurityOCmaxSSHbandwidth
416329	FIXED: CScrash
422838 410438	FIXED: Replay speed, OC crash
424238	FIXED: Cannot add camera with spec. Firmware
432547 398760	FIXED: Focus near far stop not sent Onvif PTZ Delay
434923 428521	FIXED: Security Issue, FW9.00 improvements
429433 416177	FIXED: Continuous recorded tour PTZ mode USB keyboard
431696 395229	FIXED: No live audio SSH delay start video stream
431808 419002 399765 387477 398299 398300 398396	FIXED: VCA Aggregation, Tattile improvements
441937	FIXED: Frame rate mp4 exports
435750	FIXED: PTZ control Hanwha PNM-9322VQP Multi-Camera

ID	Description
376841	FIXED: OC no alarms until reactivating current configuration

2.4 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 2.3.0 or above. Please see corresponding release notes for this application.

3 Release Notes for individual patches

3.1 382306: Dragging camera from OC image pane to MG image pane

Patch ID:	382306
Patch Title:	Dragging camera from OC image pane to MG image pane
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 382306 that some objects had not been serializable and are needed for drag & drop of cameras to a Monitor Group image pane.

Problem Details:

Issue 382306 caused the problem that dragging a camera from a standard Operator Client image pane to a Monitor Group image pane does not work.

Affected Bosch VMS Components / Machines:

- Bosch VMS Operator Client
- Cameo SDK

List of Replaced Files:

- Bosch.Cctv.DeviceApi.dll [Version 11.1.1.68]
- Bosch.Vms.Client.OpClient.CameoSystem.CameoService.dll [Version 11.1.1.68]
- Bosch.Vms.Client.Shared.StreamVisualization.dll [Version 11.1.1.68]

3.2 387201: Load balancing parameters for DIVAR IP all-in-one 4000/6000

Patch ID:	387201
Patch Title:	Load balancing parameters for DIVAR IP all-in-one 4000/6000
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 387201 that currently the preliminary (incorrect) load balancing parameters are used when using DIVAR IP all-in-one 4000/6000 as iSCSI target within BVMS.

Problem Details:

Issue 387201 caused the problem that incorrect load balancing parameters are used when using DIVAR IP all-in-one 4000/6000 as iSCSI target within BVMS which may lead to reduced recording throughput of the device or excessive number of iSCSI sessions requested from the device.

Important Hint:

The new values will be used in the BVMS Configuration only when the storage "DIVAR IP AIO 4000" and "DIVAR IP AIO 6000" were added after installing this Patch.

Already configured iSCSI will NOT be migrated. In such a case the values need to be adjusted manually to

not bring the devices into an overload situation.

The following values need to be adjusted:

- DIVAR IP all-in-one 4000
Maximum bit rate: 250 Mbps
Maximum number of iSCSI sessions: 64
- DIVAR IP all-in-one 6000
Maximum bit rate: 400 Mbps
Maximum number of iSCSI sessions: 128

Affected Bosch VMS Components / Machines:

- Bosch VMS Config Client

List of Replaced Files:

- Conf\StorageConfig\SupportedStorages\storagetypes.xml

3.3 390503, 392474: Some SDK functions not working in alarm display

Patch ID:	390503, 392474
Patch Title:	Some SDK functions not working in alarm display
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 390503 by making certain SDK functions working in alarm display scenario. This patch fixes issue 392474 by selecting the image pane correctly when switching between rows and single row alarm panel.

Problem Details:

Issue 390503 caused the problem that SDK functions "GetSelectedImagePane", "GetCameraFromImagePane" and "SaveImagePane" are not working in alarm display. Issue 392474 caused the problem that no image pane is selected in single row alarm panel.

Affected Bosch VMS Components / Machines:

- Bosch VMS Operator Client

List of Replaced Files:

- Bosch.Vms.Client.OpClient.CameoSystem.CameoSpace.dll [Version 11.1.1.72]
- Bosch.Vms.Client.OpClient.CameoSystem.CameoSpace.Wpf.dll [Version 11.1.1.72]
- Bosch.Vms.ClientSDK.dll [Version 11.1.1.72]

3.4 393966: SDK events missing in SDK EventReceiver

Patch ID:	393966
Patch Title:	SDK events missing in SDK EventReceiver
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 393966 by solving the problem to not get events from the following system-devices:

- AlarmActivated, AlarmAccepted, AlarmUnaccepted, AlarmWorkflow, AlarmCleared
- OperatorAuthenticationRejected, UserAccountDisabledEvent
- LogMessage
- SystemInfoEvent, SystemWarningEvent, SystemErrorEvent
- TaskActivityState
- BackupStarted, BackupFinished, BackupFailed, BackupCameraFailed

Problem Details:

Issue 393966 caused the problem that SDK EventReceivers did not get events from some system-devices.

Affected Bosch VMS Components / Machines:

- Bosch VMS Management Server

List of Replaced Files:

- Bosch.Vms.Backend.CentralServer.WcfServices.EventsAndStatesService.dll [Version 11.1.1.79]

3.5 395791: Export from DVR fails

Patch ID:	395791
Patch Title:	Export from DVR fails
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 395791 with a increased timeout for the track search.

Problem Details:

Issue 395791 caused the problem that an export from DVR is not possible if the track search needs more than 5 seconds.

Affected Bosch VMS Components / Machines:

- Bosch VMS Management Server
- Bosch VMS Operator Client

List of Replaced Files:

- Bosch.Vms.VsdkToDibosAdapter.Imp.dll [Version 11.1.1.77]

3.6 399322: Videojet 4000 multi with disabled Audio not configurable

Patch ID:	399322
Patch Title:	Videojet 4000 multi with disabled Audio not configurable
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 399322 being able to configure Videojet 4000 multi where Audio was disabled via license.

Problem Details:

Issue 399322 caused the problem that Videojet 4000 multi with disabled Audio was not configurable in Config Client.

In the Operator Client Alarms are visible like "Device x.y.z could not be checked...".

After Patch installation:

To make the changes of the Patch effective, please do the following:

- Start Config Client.
- Use the "Update states and capabilities" functionality in the toolbar to update the device capabilities.

Affected Bosch VMS Components / Machines:

- Bosch VMS Management Server
- Bosch VMS Config Client

3.7 375802: View recording prohibited

Patch ID:	375802
Patch Title:	View recording prohibited
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 375802 in the way that the time span in which the viewing of the most recent recording is prohibited can be configured in the OperatorClient.exe.config. With this Patch the value is set to 120 seconds.

<add key="ProhibitedTimeSpanBeforeNowInSeconds" value="120"/>.

This setting would only be applicable if specific BVMS user has playback permission, but does not have live permission for a specific camera being displayed.

Problem Details:

Issue 375802 caused the problem that pre-/post-alarm recordings were accessible in OperatorClient on real-time even if user has no "live view" authorizations.

Affected Bosch VMS Components / Machines:

- Bosch VMS Operator Client

List of Replaced Files:

- AppData\Client\OpClient\ApplicationWiring\OperatorClient.exe.config

3.8 406477: Config Client Monitorgroup configuration slow

Patch ID:	406477
Patch Title:	Config Client Monitorgroup configuration slow
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 406477 by avoiding to load the camera tree for monitor configuration multiple times.

Problem Details:

Issue 406477 caused the problem that Monitorgroup configuration is slow with higher number of decoders in Config Client.

Affected Bosch VMS Components / Machines:

- Bosch VMS Config Client

List of Replaced Files:

- Bosch.Vms.Config.DeviceTree.Extension.AMG.dll [Version 11.1.1.95]
 - Bosch.Vms.Config.DeviceTree.Extension.AMG.Wpf.dll [Version 11.1.1.95]

3.9 413813, 405734, 393949, 393486: Security Fix (SSH port forwarding), Operator Client "max clients reached", SSH bandwidth problem

Patch ID:	413813, 405734, 393949, 393486
Patch Title:	Security Fix (SSH port forwarding), Operator Client "max clients reached", SSH bandwidth problem
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 413813 by preventing the Operator Client to crash when logging in with an enterprise user.

This patch fixes issue 405734, preventing security issues.

CVE identification number:

CVE-2023-28175

This patch fixes issue 393949 by improving the behaviour of Operator Client during forced activations.

This patch fixes issue 393486 by improving the SSH connection and adding logging for download speed of the elements file.

Problem Details:

Issue 413813 caused the problem that logging in with an enterprise user leads to an Operator Client crash.

Issue 405734 caused a security problem via a vulnerability.

Issue 393949 caused the problem that after some forced activations the Operator Client shows "max clients reached" although not too many clients are connected.

Issue 393486 improves SSH connection bandwidth by latency in network.

Affected Bosch VMS Components / Machines:

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

List of Replaced Files:

- AppData\Server\CentralServer\ServerDependenciesInjection.xml
- Bosch.Vms.Backend.Shared.SshServerConfig.dll [Version 11.1.1.110]
- Bosch.Vms.Client.OpClient.ClientScripts.Imp.dll [Version 11.1.1.110]
- Bosch.Vms.Frontend.OpClient.Communication.dll [Version 11.1.1.110]
- Bosch.Vms.Frontend.OpClient.Remoting.dll [Version 11.1.1.110]
- Bosch.Vms.Frontend.OpClient.ServerManagement.dll [Version 11.1.1.110]
- Bosch.Vms.Frontend.OpClient.Wcf.dll [Version 11.1.1.110]
- Bosch.Vms.Service.Server.Modules.SshServerConfigProvider.dll [Version 11.1.1.110]
- Bosch.Vms.Shared.Communication.WcfClient.dll [Version 11.1.1.110]
- Bosch.Vms.Shared.WebServices.Contracts.Support.dll [Version 11.1.1.110]
- BvmsSshServer.exe [Version 11.1.1.110]
- BvmsSshServer.exe.config
- Rebex.Common.dll [Version 6.0.8334.0]
- Rebex.FileServer.dll [Version 6.0.8334.0]
- Rebex.Networking.dll [Version 6.0.8334.0]
- Rebex.SshShell.dll [Version 6.0.8334.0]
- Rebex.Terminal.dll [Version 6.0.8334.0]

3.10 431808, 419002, 399765, 387477, 398299, 398300, 398396 - VCA Aggregation, Tattile improvements

Patch ID:	431808, 419002, 399765, 387477, 398299, 398300, 398396
Patch Title:	VCA Aggregation, Tattile improvements
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 431808, improving the handling of the aggregation time in the VCA config on CPP4 cameras.

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

This patch fixes issue 399765, preventing security issues from which BVMS is not affected (nevertheless the corresponding Dll is exchanged).

This patch fixes issue 387477, preventing security issues.

CVE identification number:

CVE-2021-26701

This patch fixes issue 398299 by solving the authentication problem with regards to Tattile cameras.

This patch fixes issue 398300 by mapping the events from different Tattile cameras correctly.

This patch fixes issue 398396 by solving the problem of not showing events of Tattile cameras after changing the system.

Problem Details:

Issue 398299 caused the problem that the aggregation time in the VCA config is going back to zero after changing it from zero to twenty on CPP4 cameras.

Issue 419002 caused a security problem via a vulnerability.

Issue 399765 caused a security problem via a vulnerability.

Issue 387477 caused a security problem via a vulnerability.

Issue 398299 caused the problem that the authentication to a Tattile camera may fail if credentials are changed to another valid user.

Issue 398300 caused problems receiving events from different Tattile cameras as they are mapped to only one camera.

Issue 398396 caused the problem that no events (alarms) of Tattile cameras are shown if the system was changed, e.g. change port of the Tattile camera.

Important hint:

After installing the patch and a reboot, the following configuration changes need to be done once.

On the camera:

1) On the Tattile camera upload the new "LPR_Event_Template.txt" file

In BVMS:

1) Open "Edit" dialog of Tattile

2) Press "Authenticate" to retrieve updated information from camera

3) Press "OK"

4) Check that correct "Device Serial Number" is displayed on properties tab

5) Save & Activate

This will change the configuration to use the device SN in BVMS.

Affected Bosch VMS Components / Machines:

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

List of Replaced Files:

- AppData\LPR_Event_Template.txt
- AppData\Client\OpClient\ApplicationWiring\CameoSdk\CameoSdkOnly.config
- AppData\Server\DeviceAdapter\Spring.Lpr.ServerSettings.xml
- Bosch.Vms.Backend.CentralServer.WcfServices.LicensePlateReaderService.dll [Version 11.1.1.123]
- Bosch.VMS.Backend.DeviceAdapter.TattileAdapter.dll [Version 11.1.1.123]
- Bosch.Vms.Config.VcsConfigHelper.dll [Version 11.1.1.123]
- Bosch.Vms.Server.Lpr.LprAdapter.dll [Version 11.1.1.123]
- BvmsCentralServer.exe.config
- ConfigClient.exe.config
- ConfigWizard.exe.config
- DotNetZip.dll [Version 1.16.0.0] exchanges former Ionic.Zip.dll

- ExportPlayer.exe.config
- 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
- net-config2.dll [Version 4.41.49.12347]
- netConfigUm2.dll [Version 4.41.49.12347]
- ntcp.dll [Version 2.2.0.0]
- ntcpsdk.NET.dll [Version 2.2.0.0]
- ObjectRepository.Vms.ImportExport.dll [Version 11.1.1.123]
- OperatorClient.exe.config
- System.Text.Encodings.Web.dll [Version 4.700.21.11602]
- VL_ConfigManager.dll [Version 7.51.97.0]
- licenses\opensource\OpenSourceLicenses.txt
- licenses\opensource\component_licenses\tattile_open_source_licenses.txt
- licenses\opensource\component_licenses\THIRD-PARTY-NOTICES_DotNetZip.TXT

3.11 406338: Forensic search not working for CPP 14 and 13 cameras

Patch ID:	406338
Patch Title:	Forensic search not working for CPP 14 and 13 cameras
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 406338 by improving Forensic Search support for CPP 14 and 13 cameras running latest FW versions.

Problem Details:

Issue 406338 caused the problem that Forensic Search could not be executed on CPP13 and CPP14 camera devices.

Affected Bosch VMS Components / Machines:

- Bosch VMS Operator Client

List of Replaced Files:

- Bosch.VideoSDK5.Core\vca_plugins\plugin_iva.dll [Version 4.45.2.0]
- Bosch.VideoSDK5.Core\vca_plugins\plugin_iva_de.ts
- Bosch.VideoSDK5.Core\vca_plugins\plugin_iva_us.ts
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\ConditionChangedWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\CountingWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\CrossingLinesWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\CrowdDetectorWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\EnteringFieldWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\FollowingRouteWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\IdleObjectWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\LeavingFieldWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\LineCounter.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\LoiteringWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\MotionRegionDetectorWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\ObjectInFieldWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\OccupancyCounter.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\PeopleCounter.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\RemovedObjectWizard.xml

- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\SimilaritySearchWizard.xml
- Bosch.VideoSDK5.Core\vca_plugins\iva_wizard\TamperDetectorWizard.xml

3.12 411732: Workflow dialog opens behind maximized alarm window

Patch ID:	411732
Patch Title:	Workflow dialog opens behind maximized alarm window
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 411732 by enhancing the workflow dialog being in front of Operator Client windows in fullscreen mode.

Problem Details:

Issue 411732 caused the problem that the workflow dialog is behind the Operator Client windows and cannot be opened.

Affected Bosch VMS Components / Machines:

- Bosch VMS Operator Client

List of Replaced Files:

- Bosch.Vms.Client.OpClient.Alarms.AlarmWorkflow.dll [Version 11.1.1.104]

3.13 413786: Frame rate configuration not set

Patch ID:	413786
Patch Title:	Frame rate configuration not set
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 413786 by enabling the correct stream configuration to be set.

Problem Details:

Issue 413786 caused the problem that the frame rate configuration was not applied to the camera.

Affected Bosch VMS Components / Machines:

- Bosch VMS Management Server

List of Replaced Files:

- DeviceConfigurator.xml

3.14 429433, 416177 - Continuous recorded tour of PTZ camera stops, PTZ mode for USB keyboard not enabled/disabled

Patch ID:	429433, 416177
Patch Title:	Continuous recorded tour of PTZ camera stops, PTZ mode for USB keyboard not enabled/disabled
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 429433 by improving the mechanism to enable / disable the PTZ mode for USB keyboards.

This patch fixes issue 416177 by fixing Dome camera selection problems when changing PTZ mode.

Problem Details:

Issue 429433 caused the problem that the PTZ mode for USB keyboards is not enabled/disabled by adding/removing a PTZ camera from the Operator Client with the mouse.

Issue 416177 caused the problem that a continuous recorded tour of a PTZ camera stops when selecting another PTZ camera image pane.

Affected Bosch VMS Components / Machines:

- Bosch VMS Operator Client

List of Replaced Files:

- AppData\Client\OpClient\Components\Spring.Keyboard.xml
- AppData\Client\OpClient\Components\Spring.StateDispatcher.StateProviders.xml
- AppData\Client\OpClient\Components\Spring.StateDispatcher.xml
- Bosch.Vms.Client.OpClient.DczKeyboard.Imp.dll [Version 11.1.1.124]
- Bosch.Vms.Client.OpClient.Keyboard.PlugInClient.dll [Version 11.1.1.124]
- Bosch.Vms.Client.OpClient.Ptz.PtzController.dll [Version 11.1.1.124]

3.15 416329: Central Server crash

Patch ID:	416329
Patch Title:	Central Server crash
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 416329 by improving the handling of textdata recording.

Problem Details:

Issue 416329 caused the problem that the Central Server crashed if a Flexidome multi 7000i camera added without password set and not authenticated in Config Client (textdata recording for this camera was enabled for an alarm) and the configuration was activated.

Affected Bosch VMS Components / Machines:

- Bosch VMS Management Server
- Bosch VMS Config Client

List of Replaced Files:

- ObjectRepository.Vms.ObjectRepositoryAccessor.dll [Version 11.1.1.109]

3.16 422838, 410438: Replay speed, Operator Client crash

Patch ID:	422838, 410438
Patch Title:	Replay speed, Operator Client crash
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 422838 by improving the playback speed for long GOPs and I-frame-only

This patch fixes issue 410438 to prevent the Operator Client to crash / hang when doing a fast rewind with speed 8 and higher.

Problem Details:

Issue 422838 caused the problem that sometimes replay with x4 speed was too fast, while x8 speed was too slow.

Issue 410438 caused the problem that the Operator Client crashes / hangs when doing a fast rewind with speed 8 and higher.

Affected Bosch VMS Components / Machines:

- Bosch VMS Operator Client

List of Replaced Files:

- Bosch.Vms.Client.OpClient.VideoComp.Impl.dll [Version 11.1.1.113]

3.17 424238: Cannot add camera with specific Firmware

Patch ID:	424238
Patch Title:	Cannot add camera with specific Firmware
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 424238 by improving to read device capabilities for CPP6, CPP7 and CPP7.3 devices to support Firmware version 7.87 via scan and wizard.

Remark: Manual add will still not be supported due to Firmware restrictions. Will be supported from BVMS 12.0.1 onwards.

Problem Details:

Issue 424238 caused the problem that CPP6, CPP7 and CPP7.3 cameras with latest Firmware version 7.87 cannot be added to BVMS, due to new restrictions in latest Firmware versions.

Affected Bosch VMS Components / Machines:

- Bosch VMS Config Client
- Bosch VMS Config Wizard

List of Replaced Files:

- Bosch.Vms.Frontend.Shared.RcppCapabilities.dll [Version 11.1.1.114]
- Bosch.Vms.Frontend.Shared.RcppCapabilities.Imp.dll [Version 11.1.1.114]

3.18 434923, 428521: Security Issue, FW9.00 improvements

Patch ID:	434923, 428521
Patch Title:	FW9.00 improvements
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 434923 by solving camera communication problems for devices running FW9.00 when using secure connection.

REMARK: This patch will allow secure communication with the camera already added to the system. Next to this patch it is also highly recommended to apply the patch "424238 - Cannot add camera with specific Firmware" which resolves some issues when adding the camera to the system.

For further, detailed explanation please refer to the Knowledge Base article: <https://community.boschsecurity.com/t5/Security-Video/BVMS-compatibility-with-security-enhanced-camera-firmware/ta-p/87049>

Please note that in order to guarantee fully functional usage of camera running FW9.00 it is recommended to upgrade BVMS at least to version 12.0.1 (with the patch "429121, 418648, 425002 - FW8.90 improvements") or 12.1.

This patch also fixes issue 428521, preventing security issues.
CVE identification number: CVE-2023-35867

Problem Details:

Issue 428521 caused a security problem via a vulnerability.

Issue 434923 caused the problem that when secure connections are configured no communication can be established with cameras using FW9.00.

Affected Bosch VMS Components / Machines:

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

List of Replaced Files:

- bin\Bosch.Rcpp\rcpp4x64.dll [Version 5.2.0.67]
- bin\Bosch.VideoSDK5.BVIP\rcpp4x64.dll [Version 5.2.0.67]

3.19 431696, 395229 - No live audio SSH, delay start video stream

Patch ID:	431696, 395229
Patch Title:	No live audio SSH, delay start video stream
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 431696 by using the correct transport protocol (TCP) for audio streams in case of SSH.

This patch fixes issue 395229 by improving the connection string which is used for iTracking RCP connections.

Problem Details:

Issue 431696 caused the problem that during Live no audio was available if connection to the Central Server was established through SSH tunnel.

Issue 395229 caused a delayed start of the video stream if the camera was connected the first time.

Affected Bosch VMS Components / Machines:

- Bosch VMS Operator Client

List of Replaced Files:

- AppData\Client\OpClient\ApplicationWiring\Nvr\Spring.Audio.xml
- AppData\Client\OpClient\Components\Spring.VideoApi.Implementation.xml
- Bosch.Vms.Client.OpClient.CameoSystem.CameoContent.Support.dll [Version 11.1.1.121]
- Bosch.Vms.Client.OpClient.Nvr.dll [Version 11.1.1.121]
- Bosch.Vms.Client.OpClient.VideoApi.dll [Version 11.1.1.121]

3.20 432547, 398760: Focus near/far stop not sent, Onvif PTZ Delay

Patch ID:	432547
Patch Title:	Focus near/far stop not sent, Onvif PTZ Delay
Patch Target Version:	BVMS-11.1.1.65

Patch Details:

This patch fixes issue 432547 by solving the error that no stop command send when sending focus near/focus for to an Onvif PTZ camera.

This patch fixes issue 398760 by improving Onvif PTZ operations via the BVMS Operator Client for Onvif Live only cameras.

Problem Details:

Issue 432547 caused the problem that sending focus near/focus for to an Onvif PTZ camera there is no stop command send.

Issue 398760 caused the problem that on some systems the PTZ operation of Onvif domes was showing delays and control problems.

Additional Hint:

This Patch addresses PTZ operations for Onvif Live only cameras via the Operator Client.

Sending PTZ commands to VSG attached Onvif cameras is still affected. Dedicated VSG Patch is required to address same topic there.

Affected Bosch VMS Components / Machines:

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

List of Replaced Files:

- ONVIF_VDP.dll [Version 3.6.2.2]

3.21 383707, 390076: Central Server service hangs after configuration activation

Patch ID:	383707, 390076
Patch Title:	Central Server service hangs after configuration activation
Patch Target Version:	BVMS-11.1.1.65

Patch Detail

This patch addresses issue 383707 and issue 390076 by improving the thread-synchronization in classes RcpClientProxy and SequencerMessageManager.

The patch produces in addition a finer-grained logging in those components of the BVMS Central Server where the processing of the activation of a new configuration happens.

Problem Details:

Issue 383707 and issue 390076 can cause the problem that sometimes the Central Server service hangs after configuration activation.

Affected Bosch VMS Components / Machines:

- Bosch VMS Management Server
- Bosch VMS Config Client

List of Replaced Files:

- Bosch.Vms.Server.OnvifAdapter.dll [Version 11.1.1.76]
- Bosch.Vms.Service.Server.Modules.Vcs.VcsService.dll [Version 11.1.1.76]
- Bosch.Vms.Shared.Vcs.RcpCallSequencer.Impl.dll [Version 11.1.1.76]

3.22 441937: Frame rate mp4 exports

Patch ID:	383707, 390076
Patch Title:	Frame rate mp4 exports
Patch Target Version:	BVMS-11.1.1.65

Patch Detail

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

Problem Details:

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 11.1.1.128]
- Bosch.Vms.Shared.Export.Mpeg.FfMpegFacade.dll [Version 11.1.1.128]

3.23 441937: Frame rate mp4 exports

Patch ID:	383707, 390076
Patch Title:	Frame rate mp4 exports
Patch Target Version:	BVMS-11.1.1.65

Patch Detail

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

Problem Details:

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 11.1.1.128]
- Bosch.Vms.Shared.Export.Mpeg.FfMpegFacade.dll [Version 11.1.1.128]

3.24 435750: PTZ control Hanwha PNM-9322VQP Multi-Camera

Patch ID:	435750
Patch Title:	PTZ control Hanwha PNM-9322VQP Multi-Camera
Patch Target Version:	BVMS-11.1.1.65

Patch Detail

This patch fixes issue 435750 by improving the PTZ control with Hanwha PNM-9322VQP Multi-Camera.

Problem Details:

Issue 435750 caused the problem that the PTZ control with Hanwha PNM-9322VQP Multi-Camera reacts not as expected.

Affected Bosch VMS Components / Machines:

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

List of Replaced Files:

- ONVIF_VDP.dll [Version 3.6.3.1]

3.25 376841: OC no alarms until reactivating current configuration

Patch ID:	376841
Patch Title:	OC no alarms until reactivating current configuration
Patch Target Version:	BVMS-11.1.1.65

Patch Detail

This patch fixes issue 376841 of not showing alarms in Operator Client on BVMS Server until reactivating the configuration.

Problem Details:

Issue 376841 caused the problem that alarms are not shown in Operator Client on BVMS Server until reactivating the configuration (the currently running configuration).

Affected Bosch VMS Components / Machines:

- Bosch VMS Management Server

List of Replaced Files:

- Bosch.Vms.Backend.CentralServer.WcfServices.DataAccessService.dll [Version 11.1.1.74]