



From	Product Management	Telephone	Nuremberg
ST-VS	ST-VS/MKP4.1	+49 911 93456 0	30-Mar-2017

## Release Letter

Product:	<b><i>DIVAR IP 3000 Family</i></b>
Version:	<b><i>Maintenance Release DOM menu 1.9.4 image version 2.8.1</i></b>

This letter contains latest information about the above mentioned Bosch DIVAR IP 3000 Family.

### 1. General

DIVAR IP 3000 appliance is an affordable and easy to use all-in-one recording, viewing, and management solution for network surveillance systems of up to 32 channels (all channels pre-licensed)

Running the full Bosch VMS (Video Management System) solution and powered by Bosch Video Recording Manager software, DIVAR IP 3000 is an intelligent IP storage device that eliminates the need for separate NVR (Network Video Recorder) server and storage hardware.

DIVAR IP 3000 is a 4-bay mini tower unit that combines advanced management and state-of-the-art recording management into a single cost-effective, plug and play IP recording appliance for IT-minded customers.

### 2. Restrictions; Known Issues

- Graphics Port: The DVI port is accessible only after the system has completely started. For any tasks during the boot phase the VGA port must be used.
- Transcoder: Maximum transcoder source stream resolution is 1920x1080p30
- Mobile Video Service runs with low priority to avoid performance conflicts. It can provide up to two streams in 1080p resolution to the DIVAR IP 3000 web interface. If the system is loaded with other task (e.g. local viewing) performance may be lower.
- BVC needs to be upgraded to version 1.7.2 or higher, if it shall serve as replay client for DIVAR IP 3000 appliances with BVMS 5.0.5 or later
- VideoSDK needs to be upgraded to 5.82 MR2 or higher, if it shall serve as integration tool for DIVAR IP 3000 appliances with BVMS 5.0.5 or later
- 3<sup>rd</sup> party device support restrictions are listed in Bosch VMS release notes



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### 3. New subcomponent software versions

- BVMS 7.0.0.223 (alternative installation option: Bosch VMS 6.5.0.325)
- Video Recording Manager 3.60.0043
- Video Streaming Gateway 6.30.0047
- USB-Transcoder Service 6.30.0047
- ATM POS Service 1.0.0009

### 4. New Features

#### **Bosch VMS 7.0**

- Video authentication based on 2048 bit public/private key certificates
- Automated stream switching for live streams
- Encryption of communication from the camera to: Operator Client, VRM, Management Server
- Simple motion search
- Unmanaged sites: support for different time zones
- Unmanaged sites: support for different time zones

#### **Newly tested components**

- DIVAR AN 6TB HDD: DVR-XS600-A

### 5. Applied Changes / Bug Fixes

#### **BVMS 7.0**

- Tested software/firmware versions, supported devices, bug fixes and change are listed in the Bosch VMS release notes:  
[http://resource.boschsecurity.us/documents/BoschVMS\\_Release\\_Note\\_enUS\\_23721232779.pdf](http://resource.boschsecurity.us/documents/BoschVMS_Release_Note_enUS_23721232779.pdf)

#### **Operating System Image**

- Storage preparation works without active network link

### 6. Installation Notes

- An upgrade from DOM Image v1.0 cannot be performed manually. DOM image v1.2 and later require a newer version of the system BIOS.



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## 7. History

### 7.1 DIVAR IP 3000 DOM menu 1.9.3 image version 2.7.7

#### Restrictions; Known Issues

- Graphics Port: The DVI port is accessible only after the system has completely started. For any tasks during the boot phase the VGA port must be used.
- Initial installation: During initial boot and installation the system must be connected to the network. Please note: All systems come with the same default IP address.
- Transcoder: Maximum transcoder source stream resolution is 1920x1080p30
- Mobile Video Service runs with low priority to avoid performance conflicts. It can provide up to two streams in 1080p resolution to the DIVAR IP 3000 web interface. If the system is loaded with other task (e.g. local viewing) performance may be lower.
- BVC needs to be upgraded to version 1.7.2 or higher, if it shall serve as replay client for DIVAR IP 3000 appliances with BVMS 6.5
- VideoSDK needs to be upgraded to 5.82 MR2 or higher, if it shall serve as integration tool for DIVAR IP 3000 appliances with BVMS 6.5
- 3<sup>rd</sup> party device support restrictions are listed in Bosch VMS release notes



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## New subcomponent software versions

- Bosch VMS 6.5.0.325 (alternative installation option: BVMS 6.0.0.453)
- Video Recording Manager 3.55.0011
- Video Streaming Gateway 6.17.0064
- USB-Transcoder Service 6.17.0057
- ATM POS Service 1.0.0009

## New Features

### Bosch VMS 6.5

- Ganetec integration (Face and license plate recognition on dedicated analytics server)
- Unmanaged site enhancements: DIVAR IP 3000/7000 can now be added to a BVMS system as unmanaged device (up to 9.999 sites supported)

### Newly tested components

- DIVAR AN 4TB HDD: DVR-XS400-A

## Applied Changes / Bug Fixes

### BVMS 6.5

- Tested software/firmware versions, supported devices, bug fixes and change are listed in the Bosch VMS release notes:  
[http://resource.boschsecurity.us/documents/BoschVMS\\_Release\\_Note\\_enUS\\_22547358987.pdf](http://resource.boschsecurity.us/documents/BoschVMS_Release_Note_enUS_22547358987.pdf)

### Operating System Image

- OS patch state: June 2016  
Note: regular OS patch update using *Windows Update* or similar deployment method is suggested

## 7.2 DIVAR IP 3000 DOM menu 1.9.1 image version 2.5.9

## Restrictions; Known Issues

- Graphics Port: The DVI port is accessible only after the system has completely started. For any tasks during the boot phase the VGA port must be used.
- Initial installation: During initial boot and installation the system must be connected to the network. Please note: All systems come with the same default IP address.
- Transcoder: Maximum transcoder source stream resolution is 1920x1080p30
- Mobile Video Service runs with low priority to avoid performance conflicts. It can provide up to two streams in 1080p resolution to the DIVAR IP 3000 web interface. If the system is loaded with other task (e.g. local viewing) performance DIVAR may be lower.



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- BVC needs to be upgraded to version 1.7.2 or higher, if it shall serve as replay client for DIVAR IP 3000 appliances with BVMS 5.5.5
- VideoSDK needs to be upgraded to 5.82 MR2 or higher, if it shall serve as integration tool for DIVAR IP 3000 appliances with BVMS 5.5.5
- 3<sup>rd</sup> party device support restrictions are listed in Bosch VMS release notes:  
[http://resource.boschsecurity.com/documents/Release\\_Notes\\_5.5.5\\_Release\\_Note\\_enUS\\_18862879115.pdf](http://resource.boschsecurity.com/documents/Release_Notes_5.5.5_Release_Note_enUS_18862879115.pdf)

## New subcomponent software versions

- Bosch VMS 5.5.5.258 (alternative installation option: BVMS 5.5.1.515)
- Video Recording Manager 3.00.0075
- Video Streaming Gateway 5.91.0031
- USB-Transcoder Service 5.60.0078
- ATM POS Service 1.0.0009

## New Features

### Operator Client (BVMS 5.5.5)

- Dewarping support for panoramic cameras
- Option to connect a BVMS 5.5.5 Client to a BVMS 5.0.x Server in Compatibility Mode

### Operating System Image

- One free-of-charge ATM/POS license included
- ATM POS Service for text data integration pre-installed (accessible via BVRAdmin account)

### Newly tested components

- DIVAR AN 3TB HDD: 3TB WD30EVD5          DVR-XS300-A
- IntuiKey keyboard connectivity: Delock Adapter USB 2.0 > 1 x Serial
- KBD-Universal XF connectivity: ATEN UCE60 USB Extender (Cat 5, Cat 5e, Cat6)

## Applied Changes / Bug Fixes

### BVMS 5.5.5

- Tested software/firmware versions, supported devices, bug fixes and change are listed in the Bosch VMS release notes:  
[http://resource.boschsecurity.com/documents/Release\\_Notes\\_5.5.5\\_Release\\_Note\\_enUS\\_18862879115.pdf](http://resource.boschsecurity.com/documents/Release_Notes_5.5.5_Release_Note_enUS_18862879115.pdf)

### Operating System Image

- Fixed: pre-installed XPS printer driver to prevent issue while saving the Image Pane in Bosch VMS Operator Client version 5.5.x explained in KB article <https://cp-vcsvideo.kb.net/article.aspx?article=8204&p=2>



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### 7.3 DIVAR IP 3000 DOM menu 1.9 image version 2.5.8

#### Restrictions; Known Issues

- Graphics Port: The DVI port is accessible only after the system has completely started. For any tasks during the boot phase the VGA port must be used.
- Initial installation: During initial boot and installation the system must be connected to the network. Please note: All systems come with the same default IP address.
- Transcoder: Maximum transcoder source stream resolution is 1920x1080p30
- BVC needs to be upgraded to version 1.7.2 or higher, if it shall serve as replay client for DIVAR IP 3000 appliances with BVMS 5.5.1
- VideoSDK needs to be upgraded to 5.82 MR1 or higher, if it shall serve as integration tool for DIVAR IP 3000 appliances with BVMS 5.5.1
- 3<sup>rd</sup> party device support restrictions are listed in Bosch VMS release notes:
  - [http://resource.boschsecurity.com/documents/Release\\_Notes\\_5.5.1\\_Release\\_Note\\_all\\_189\\_19226507.pdf](http://resource.boschsecurity.com/documents/Release_Notes_5.5.1_Release_Note_all_189_19226507.pdf)

#### New subcomponent software versions

- Bosch VMS 5.5.1.515 (alternative installation option: BVMS 5.0.5.1010)
- Video Recording Manager 3.00.0075
- Video Streaming Gateway 5.91.0022
- USB-Transcoder Service 5.60.0078

#### New Features

##### System Setup

- Initial Setup procedure prompts a selection of two software installation options:
  - BVMS 5.5.1: recommended for most users
  - BVMS 5.0.5: recommended if system shall be integrated into existing BVMS 5.0.5 based infrastructure

##### Recovery Menu

- Image version is now listed next to the recovery menu version
- Hard drive status tool added to the recovery menu

##### Configuration Wizard (BVMS 5.5.1)

- Expansion licenses can now be applied in Configuration Wizard
- Device names are shown in network scan result



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**Operator Client (BVMS 5.5.1)**

- MOV used as new export format
- Option to connect a BVMS 5.5.1 Client to a BVMS 5.0.5 Server in Offline Client Mode

**Management Server (BVMS 5.5.1)**

- Intrusion panel integration (not available in all regions)

**Configuration Client (BVMS 5.5.1)**

- Option to map ONVIF events to BVMS events

## Applied Changes / Bug Fixes

**BVMS 5.5.1**

- Tested software/firmware versions, supported devices, bug fixes and change are listed in the Bosch VMS release notes:  
[http://resource.boschsecurity.com/documents/Release\\_Notes\\_5.5.1\\_Release\\_Note\\_all\\_18919226507.pdf](http://resource.boschsecurity.com/documents/Release_Notes_5.5.1_Release_Note_all_18919226507.pdf)

**Mobile Video Service**

- Fixed: MVS can now be used as fall-back transcoder for Operator Client access without re-configuration
- Changed: MVS web page can now be accessed from web server root: <https://<system-IP>/> or <http://<system-IP>/>

**VRM**

- Fixed: load balancing issue explained in KB article <https://cp-vcsvideo.kb.net/article.aspx?article=8165&p=2>

**Operating System**

- Changed: various security enhancements based on DIACAP requirement
- Changed: patch state:  
[http://tutorials.ipp.boschsecurity.com/downloads/nue-mkp/DIVAR\\_IP/3000/v1\\_9/image2\\_5\\_8/Patches\\_image\\_version\\_2.5.8.xlsx](http://tutorials.ipp.boschsecurity.com/downloads/nue-mkp/DIVAR_IP/3000/v1_9/image2_5_8/Patches_image_version_2.5.8.xlsx)



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## 7.4 DIVAR IP 3000 DOM image version 1.4

### Restrictions; Known Issues

- Graphics Port: The DVI port is accessible only after the system has completely started. For any tasks during the boot phase the VGA port must be used.
- Initial installation: During initial boot and installation the system must be connected to the network. Please note: All systems come with the same default IP address.
- Transcoder: Maximum transcoder source stream resolution is 1920x1080p30
- Mobile Video Service: the local MVS needs to be added to the system with the private IP address (not 127.0.0.1), if it shall serve as a fall-back transcoder for Operator Client access.
- BVC needs to be upgraded to version 1.6.2 or higher, if it shall serve as replay client for DIVAR IP 3000 appliances with BVMS 5.0.5
- VideoSDK needs to be upgraded to 5.81 MR1 or higher, if it shall serve as integration tool for DIVAR IP 3000 appliances with BVMS 5.0.5
- 3<sup>rd</sup> party device support restrictions are listed in the Bosch VMS release notes:
  - [http://resource.boschsecurity.com/documents/Release\\_Notes\\_5.0.5\\_Release\\_Note\\_enUS\\_16781064459.pdf](http://resource.boschsecurity.com/documents/Release_Notes_5.0.5_Release_Note_enUS_16781064459.pdf)

### New subcomponent software versions

- Bosch VMS 5.0.5.1010 (alternative installation option: BVMS 4.5.9.359)
- Video Recording Manager 3.00.0074
- Video Streaming Gateway 5.91.0020
- USB-Transcoder Service 5.60.0078

### New Features

#### System Setup

- Initial Setup procedure prompts a selection of two software installation options:
  - BVMS 5.0.5: recommended for most users
  - BVMS 4.5.9: recommended if system shall be integrated into existing BVMS 4.5.9 based infrastructure

#### Configuration Wizard (BVMS 5.0.5)

- Remote access: DNS information can be entered in the Basic step. The port rules for router configuration can be retrieved from the detailed report in the last wizard step.
- Network address of video devices to be added can be changed, if they are located in a different IP range.
- Recording profiles and retention time settings can be changed individually per device or for a selection of devices.





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#### Management Server (BVMS 5.0.5)

- Additional data: option to record text data together with video stream

#### Video Streaming Gateway (BVMS 5.0.5)

- VSG supports alarm recording triggered by BVMS events

## Applied Changes / Bug Fixes

#### BVMS 5.0.5

- Tested software/firmware versions, supported devices, bug fixes and change are listed in the Bosch VMS release notes:  
[http://resource.boschsecurity.com/documents/Release\\_Notes\\_5.0.5\\_Release\\_Note\\_enUS\\_16781064459.pdf](http://resource.boschsecurity.com/documents/Release_Notes_5.0.5_Release_Note_enUS_16781064459.pdf)

#### Video Recording Manager

- Bug fixes and change are listed in the VRM release notes:  
[http://tutorials.ipp.boschsecurity.com/downloads/nue-mkp/VRM/3\\_00/Bosch\\_Releaseletter\\_VRM3\\_00\\_0073.pdf](http://tutorials.ipp.boschsecurity.com/downloads/nue-mkp/VRM/3_00/Bosch_Releaseletter_VRM3_00_0073.pdf)

#### Mobile Video Service

- Fixed: correct MVS entry shown in port mapping table for remote access
- Fixed: local MVS priority settings prevent system overload
- Changed: MVS web page can now be used: <https://<system-IP>/mvs>

## 7.5 DIVAR IP 3000 DOM image version 1.3

### Restrictions; Known Issues

- Graphics Port: The DVI port is accessible only after the system has completely started. For any tasks during the boot phase the VGA port must be used.
- Initial installation: During initial boot and installation the system must be connected to the network. Please note: All systems come with the same default IP address.
- Transcoder: Maximum transcoder source stream resolution is 1920x1080p30
- ONVIF Support Restrictions
  - no support for event-based recording
  - Audio on some 3<sup>rd</sup> Party cameras not fully supported which may result in non-availability of audio streams
  - TCP not supported for ONVIF cameras but with UDP protocol only
  - Motion JPEG is not supported
  - VCA is always recorded for Bosch devices



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- VCA is not available for ONVIF cameras

## New subcomponent software versions

- BVMS 4.5.9.359
- VRM 3.00.0057

## New Features

### Configuration Client and Configuration Wizard

- To avoid security issues, a global default password must be set for all devices and all authorization levels (service, live, user) that are not password protected. You can disable this enforced password protection for BVIP devices.
- VIP X16 XF E has been moved to Device Family 2 for support of 2nd stream for recording. Deviating from the behaviour of the other devices belonging to Device Family 2, VIP X16 XF E must use the same stream for all recordings. Although the user can configure stream 1 for continuous recording and stream 2 for alarm recording, the second setting will not take effect. After an Bosch VMS upgrade, perform the update of the device family manually.  
To update the device family:  
Right-click the device and click **Edit Encoder**.  
Click **OK**.

## Applied Changes / Bug Fixes

### Image

- Fixed: DVD burner permission problem
- Fixed: 30days password expiration problem (last fix did not apply in every case)
- Changed: Client software and documentation updated on the local network share

### Operator Client

- Fixed: Click on find video by event results jumped to wrong playback time.
- Fixed: Live video images from NTSC cameras on DVR 670 were squeezed.
- Fixed: Sometimes OpClient could crash on loading favorites.
- Fixed: ONVIF domes could not be controlled.
- Fixed: Under rare circumstances OpClient could crash on logon of dual authorization group.
- Fixed: Video viewing via NAT/port mapping routes did not work on Windows XP.
- Fixed: Manual focus/iris in automatic mode.
- Tested software/firmware versions and supported devices (see BVMS 4.5.9 release notes for details → [http://144.76.6.227/downloads/support-cctv/DIVAR\\_IP\\_3000/BVMS\\_VERSION\\_4\\_5\\_9\\_ReleaseNotes.pdf](http://144.76.6.227/downloads/support-cctv/DIVAR_IP_3000/BVMS_VERSION_4_5_9_ReleaseNotes.pdf))

### Configuration Client

- Fixed: OPC Server Connection for BIS license option was not available.



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**Configuration Collector**

- Fixed: Config Collector freezed while zipping collected files.

**VRM**

- Fixed: Discovery is more stable
- Fixed: Reliability of disconnecting transcoders improved
- Fixed: Exporting Log-Files large than 100MB
- Changed: iSCSI-password is also set on USB-Transcoder

**7.6 DIVAR IP 3000 DOM image version 1.2**

**Restrictions; Known Issues**

- Graphics Port: The DVI port is accessible only after the system has completely started. For any tasks during the boot phase the VGA port must be used.
- In rare cases the password of limited operational Windows user comes up expired after initial setup:
  - System recovery solves the problem (hold down F7 key during system boot → wait for recovery menu to appear → select “Restore to Factory image”); Note: the “Restore to Factory image” option deletes all data on the operating system partition.
- Initial installation: During initial boot and installation the system must be connected to the network. Please note: All systems come with the same default IP address.
- ONVIF Support Restrictions
  - no support for event-based recording
  - Audio on some 3<sup>rd</sup> Party cameras not fully supported which may result in non-availability of audio streams
  - TCP not supported for ONVIF cameras but with UDP protocol only
  - Motion JPEG is not supported
  - VCA is always recorded for Bosch devices
  - VCA is not available for ONVIF cameras

**New subcomponent software versions**

- BVMS 4.5.8.151
- VSG 5.60.0073
- Transcoder 5.60.0073
- .NET Framework 4.5



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## New Features

- Added support for 3TB hard drives
- Unlisted Bosch BVIP video devices can be added as generic devices (see BVMS 4.5.5 release notes for details).
- Server Lookup improvements (see BVMS 4.5.8 release notes for details).
- Minor changes in the user and workstation settings (see BVMS 4.5.8 release notes for details).
- Client software and documentation can be downloaded from local network share.

## Applied Changes / Bug Fixes

- Fixed: 30days password expiration problem
- Fixed: Windows activation problem
- Wizard prompts system reboot option when Network settings are changed
- Minor fixes in new subcomponent software versions (BVMS, VRM, VSG, Transcoder)
- Minor improvements in the initial installation procedure
- Tested software/firmware versions and supported devices (see BVMS 4.5.8 release notes for details → [http://144.76.6.227/downloads/support-cctv/DIVAR\\_IP\\_3000/BVMS\\_VERSION\\_4\\_5\\_8\\_ReleaseNotes\\_v1.pdf](http://144.76.6.227/downloads/support-cctv/DIVAR_IP_3000/BVMS_VERSION_4_5_8_ReleaseNotes_v1.pdf)).
- Bosch VMS default screen now shows text labels below the icons.
- The default network settings now match the default network settings of other Bosch video devices
  - IP Address: 192.168.0.200
  - Subnet mask: 255.255.255.0

### 7.2 DIVAR IP 3000 DOM image version 1.0

## Restrictions; Known Issues

- Graphics Port: The DVI port is accessible only after the system has completely started. For any tasks during the boot phase the VGA port must be used.
- Password of limited operational Windows user expires after 30 days:
  - The password of limited user must be set manually to “never expires” on DIVAR IP 3000 by logging on to the DIVAR IP via remote desktop with user administrator user “BVRAdmin”. In the “Server Manager” the password can be changed to “Password never expires” (Configuration → Local Users and Groups → User (→ user limited)).
  - For details s. Bosch Security Knowledge Base <https://cp-vcsvideo.kb.net/article.aspx?article=7400&p=2>
- Default IP Address: The system comes with the following network settings
  - IP Address: 192.168.178.200
  - Subnet mask: 255.255.0.0
- Initial installation: During initial boot and installation the system must be connected to the network. Please note: All systems come with the same default IP address.



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- Network Settings Change: The DIVAR IP needs to be restarted, if network settings are changed in the Wizard. This applies for the initial setup as well as for changes during standard operation.
- Adding Storage: If the wizard stops at Step 8 “Add storage”, because the LUNs aren’t formatted, the LUNs have to be formatted using the Bosch VMS Config Client.
- ONVIF Support Restrictions
  - no support for event-based recording
  - Audio on some 3<sup>rd</sup> Party cameras not fully supported which may result in non-availability of audio streams
  - TCP not supported for ONVIF cameras but with UDP protocol only
  - Motion JPEG is not supported
  - VCA is always recorded for Bosch devices
  - VCA is not available for ONVIF cameras

## New Features

The DIVAR IP 3000 Family is an all-in-one management solution that comes with BVMS/VRM including Video Streaming Gateway pre-installed and with 32 channels pre-licensed. The system will come with one built-in Transcoder channel.

## Applied Changes / Bug Fixes

- n/a