



BOSCH

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VRM eXport Wizard

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Date: 1 April, 2020

1 Document information	3
1.1 Version history	3
2 Introduction	4
3 Use-cases	5
3.1 Mass-export for evidence retrieval	5
3.2 Mass-export for remote IVA fine-tuning	5
3.3 Mass-export for troubleshooting	5
4 Usage	6
4.1 Authentication	6
4.2 Export	7
4.3 Performance	8

1 Document information

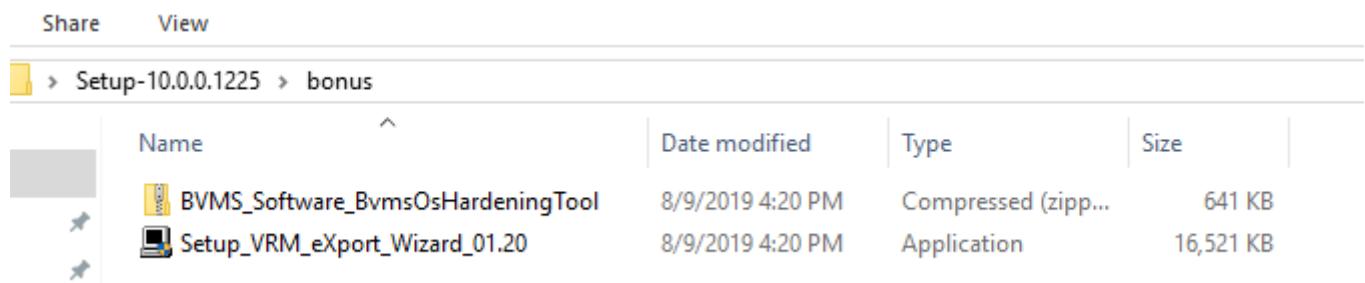
Project	Video Recording Manager
Reference	n/a
Version	8
Last modified	 12 March 2020

1.1 Version history

Date	Version	Description
2020-03-12	8	First version

2 Introduction

The VRM eXport wizard is a tool that allows you to export video directly from the VRM. You can find the VRM eXport wizard setup file in the bonus directory of the BVMS zip file.



Name	Date modified	Type	Size
BVMS_Software_BvmsOsHardeningTool	8/9/2019 4:20 PM	Compressed (zipp...)	641 KB
Setup_VRM_eXport_Wizard_01.20	8/9/2019 4:20 PM	Application	16,521 KB

Exports made with the VRM eXport wizard can be open in BVMS (Viewer) 9.0 or newer.

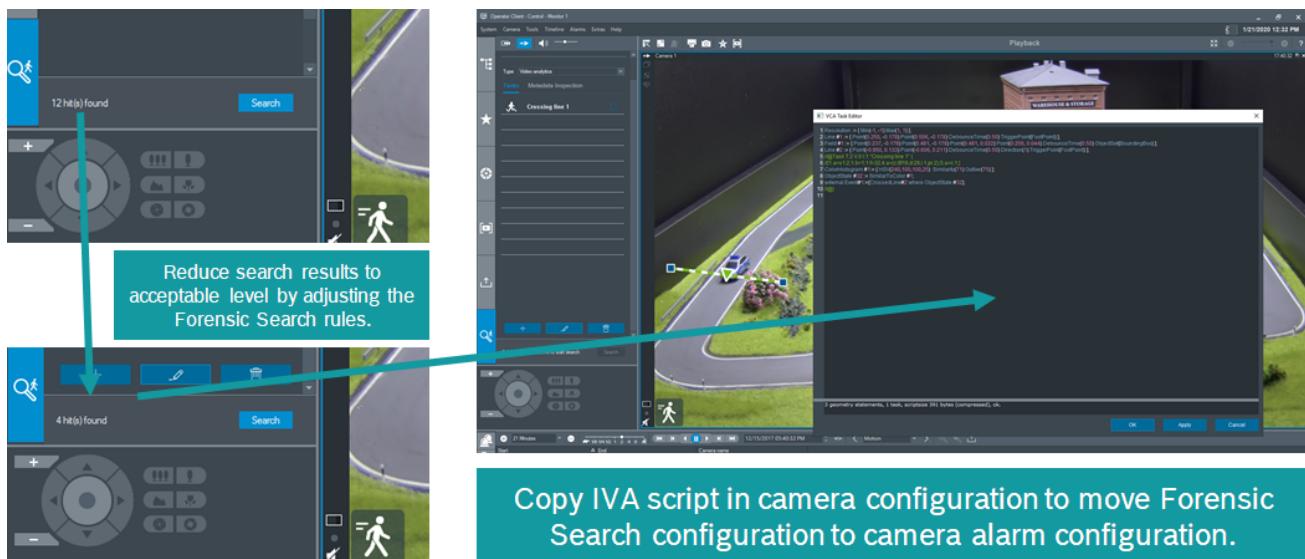
3 Use-cases

3.1 Mass-export for evidence retrieval

The VRM eXport wizard does not convert (transcode) the video but copies it in its original format to the specified storage location. This makes the VRM eXport wizard very suitable for mass-exports in case of, for example, incidents in which the authorities require a copy of large volumes of video. The storage hardware performance (source and destination) determines the actual speed of the export process and the VRM eXport wizard allows to limit the export speed to prevent recording gaps for cameras that actively record on the storage device.

3.2 Mass-export for remote IVA fine-tuning

Exports made with the VRM eXport wizard include IVA metadata. You can use Forensic Search on the exported video (including metadata) to come to an acceptable number of search results covering a specific time frame (for example, one day). You can open the corresponding IVA script using the context menu (right click) in the image pane. Copy the script into the IVA configuration of the camera, and the camera applies the Forensic Search parameters to its alarm configuration. The image below visualises this process.



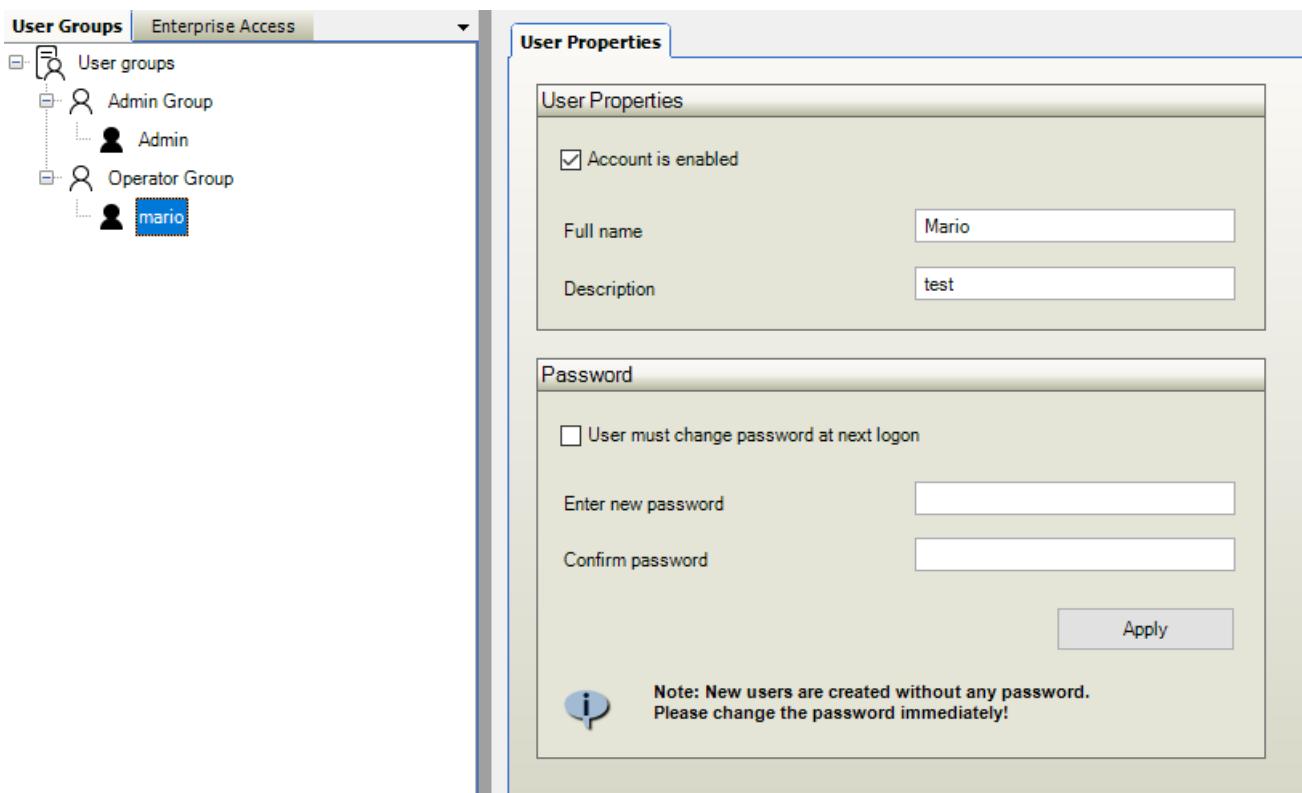
3.3 Mass-export for troubleshooting

As the VRM eXport wizard exports the recorded video without changing its format, it is also the ideal tool to troubleshoot potential errors in the recorded video. The technical support teams might ask you to use the VRM eXport wizard to export video information so they can investigate the root cause of certain issues. Please make sure you select the right camera and time frame related to the issue you experience.

4 Usage

4.1 Authentication

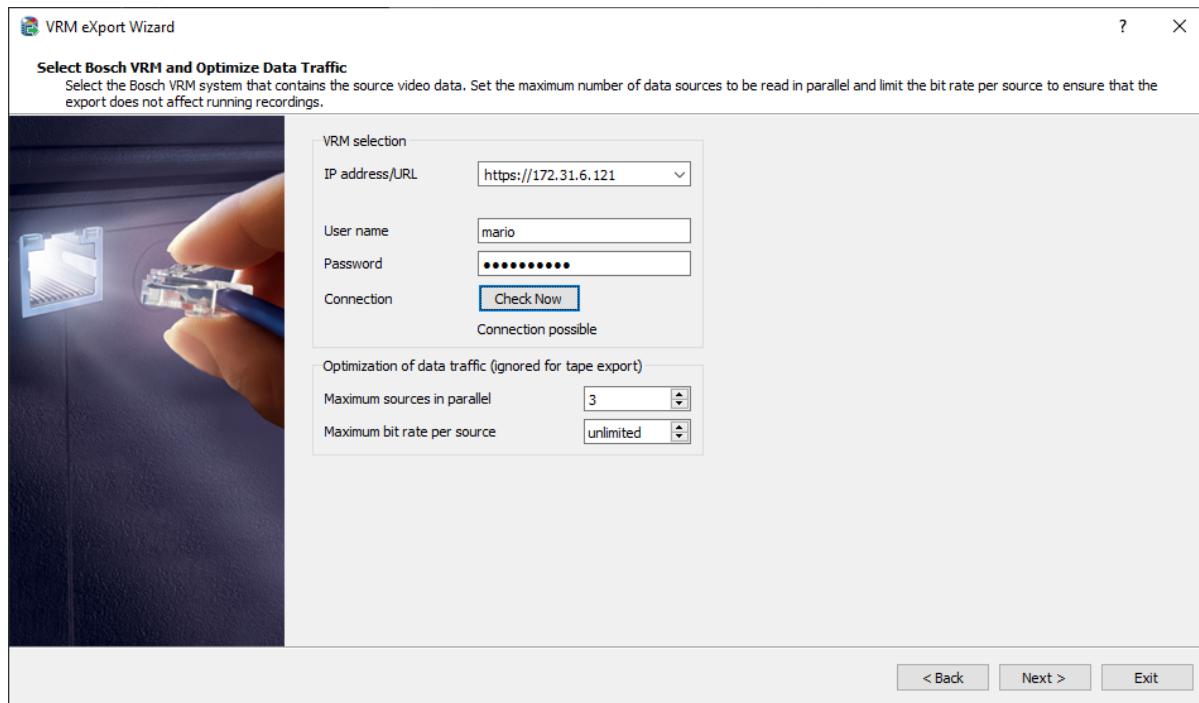
You need to login to the VRM with the right user permissions. We recommend to use an existing BVMS user account for this.



The maximum bit rate per source is depending on the storage hardware performance. Bosch storage devices (DIVAR IP, DSA E-series) are tested with 20% read speed, compared to their specified recording speed. For the DIVAR IP 7000 R2 this means, for example, 20% of 475 Mbit/s = 95 Mbit/s. We generally recommend to use 50% of the read performance of the device for export purposes. For the DIVAR IP 7000 R2 this means you should configure the VRM eXport wizard to ~50 Mbit/s. Increasing the read speed might cause recording gaps or result in strange behaviour when operators try to replay video footage. This still allows your video surveillance operators to replay video footage from the device and allows cameras to continue to record on the device. The table below shows an example calculation of export times considering certain replay speeds.

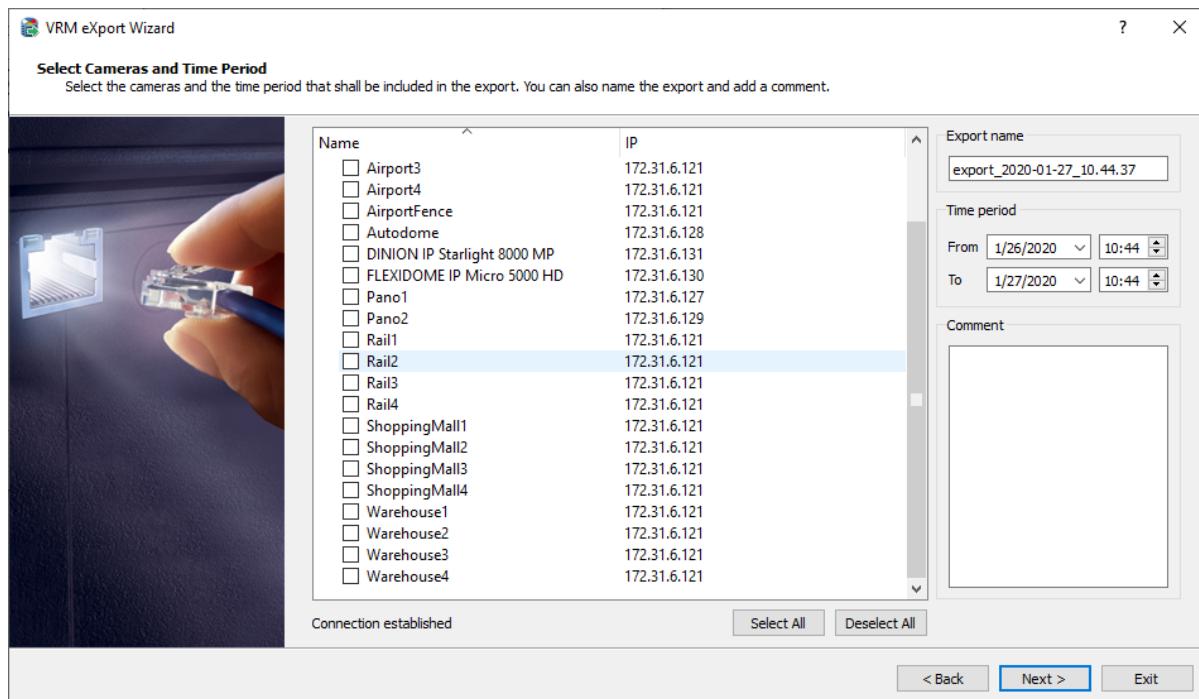
Speed (Mbit/s)	Data volume (GB)	Video (2 Mbit/s, Hour)	Export time (Hour)
50	250	284	~12
100	250	284	~6
50	500	568	~23
100	500	568	~11

Considering the example presented in the table above, you are exporting video at 23x the recording speed when exporting at 50 Mbit/s or 51x the recording speed at 100 Mbit/s.

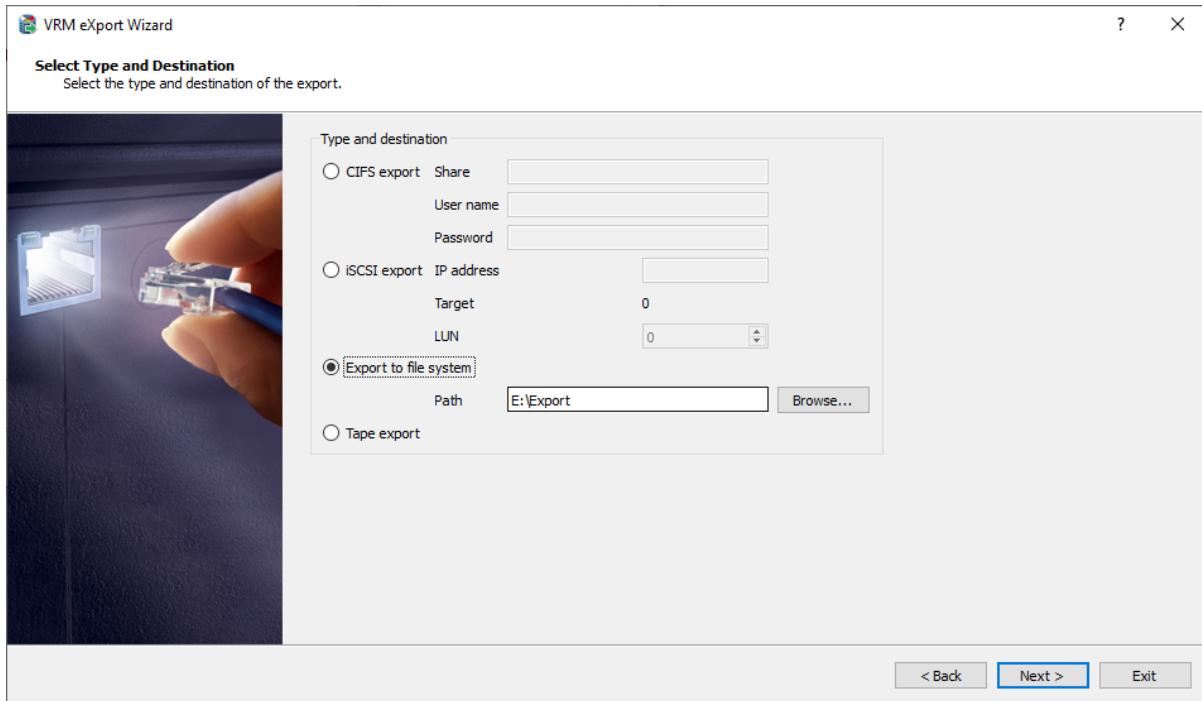


4.2 Export

Chose the cameras that need to be exported and the related time period.



The export can be stored on a file share, another iSCSI driver, or onto a file system. Chose the destination of your preference.



4.3 Performance

The VRM eXport wizard allows you to monitor the progress of the export, including some information on the speed of the export process.

