Installation- and Operating Manual

Smart Export Manager



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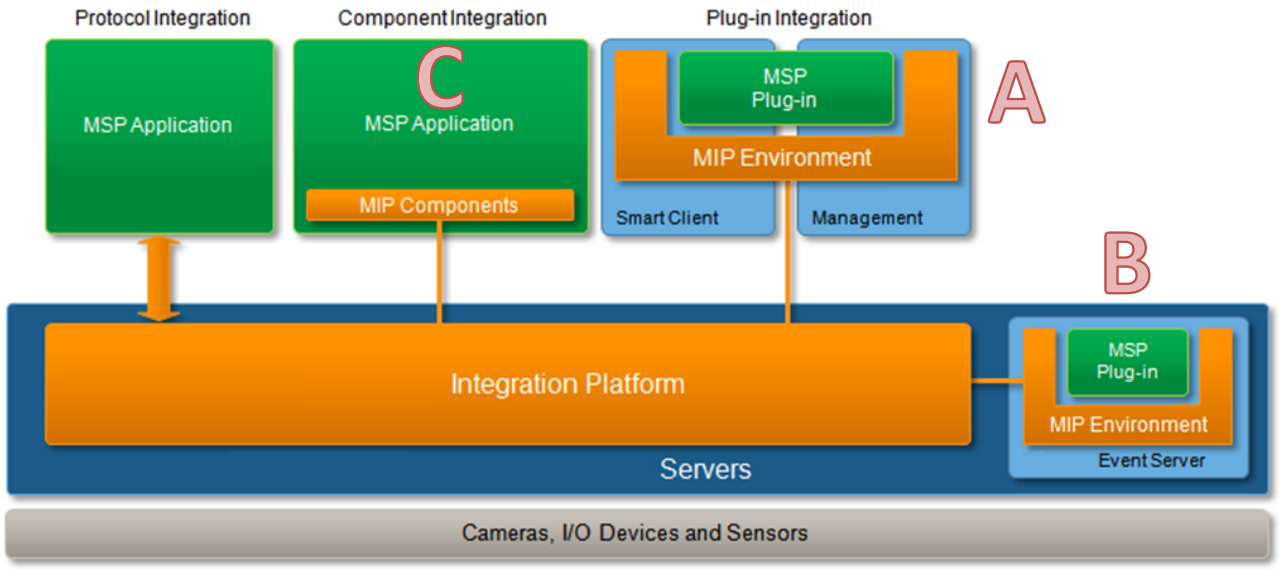
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2 General behavior of this Document

This document is targeting the integrators and users of the Milestone based VMS and describes the installation and configuration of the Environment.

The Smart Software plugins from EET Security are deeply integrated into the VMS Platform and don't need any additional Software. MIP (VMS Integration Platform) Plugins are dynamically loaded from the Milestone Applications and Services, which allows a simple installation and configuration. This document describes how to setup and configure your System to enable the Smart Export Manager integration in your VMS. This enables you to create rules to execute Export Profiles on a dedicated Export Service automatically. With the Export Data Manager application, you can visualize and manage the Exported Projects.

The Architecture of the MIP Plugin is as follows:



The Smart Export Manager Application consists of a Server-side Plugin which is installed on the Server and loaded by the Management Application (A) and by the Event Server (B). One or multiple standalone Windows Service(s) "Export Manager Service" (C) can run on one or on several computers.

The Setup File includes all necessary Files and installers for both Plugin parts (A) and (B) and registers the Windows Service Installer (C) to the Milestone Download Manager.

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3 Smart Export Manager MIP Plug-In for the Milestone Server

The following Chapter describes the installation and configuration of the MIP Plugin on the Server.

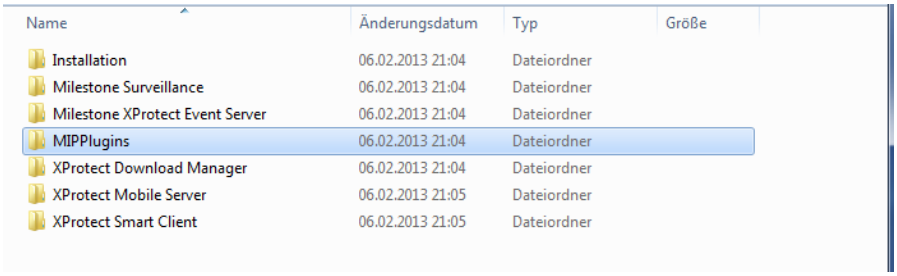
3.1 Installation of the Plugin on the Event Server and Management Client

The installation of the Plugin is packed into a Setup Wizard, which will setup everything needed in your Environment. Before you start with the installation, make sure that the Management Client Application is closed. The Setup Wizard will do the following job:

- The installer must be executed on the Management Client Computer and on the Event Server.
- It will Stop and Restart the Event Server Service to activate the Plugin in the Event Server
- It will register the Export Manager Service installer to the download Manager

The installer will copy the Plugin files into the following Directory:

%ProgramFiles%\Milestone\MIPPlugins\ER.EventServer.SmartExportManager



The MIP Plugin is dynamically loaded and used by the following Milestone Applications:

Milestone Application:	Description:	Milestone Version:
Event Server	The Event Server will load the plugin and will execute the whole Logic in relation to the configuration. It also provides the new Rule Action “Send export Job”. The Plugin communicates with the Export Manager Services and delivers Export Jobs to them when activated by the Rule.	All
Management Client	The Management Application loads the Plugin and offers the configuration GUI. In the GUI you can create Export Profiles which can then be used as Actions in rules.	All

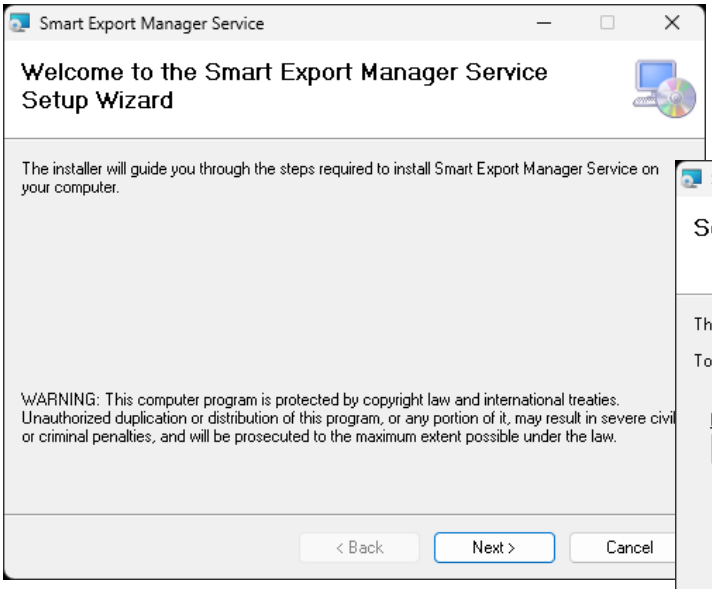
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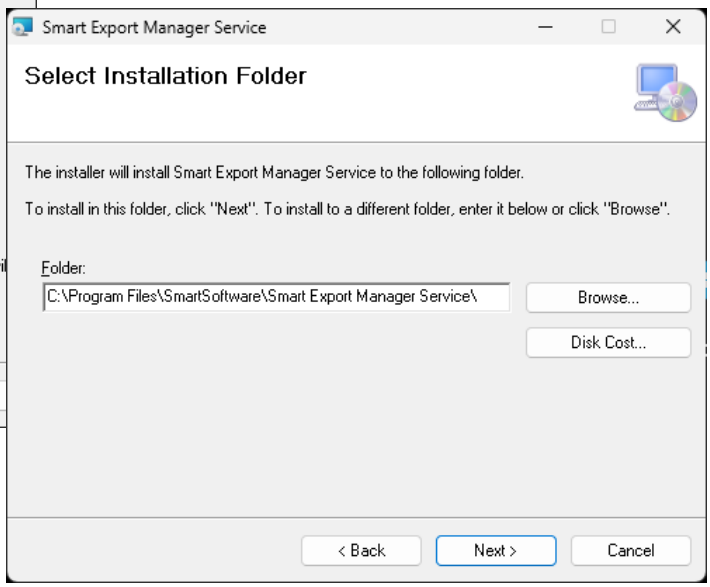
3.2 Installation of the Export Manager Windows Service

Go to the Download Manager Website of the Milestone System after the Server-Side installation:

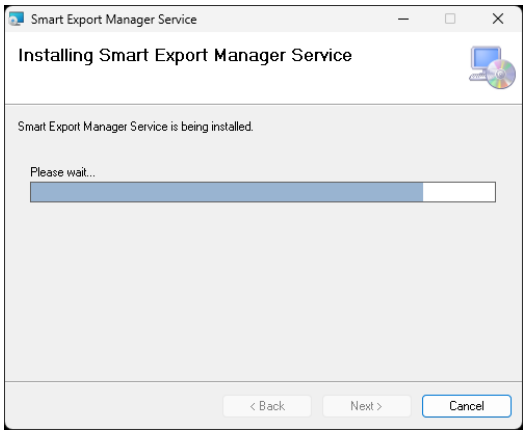


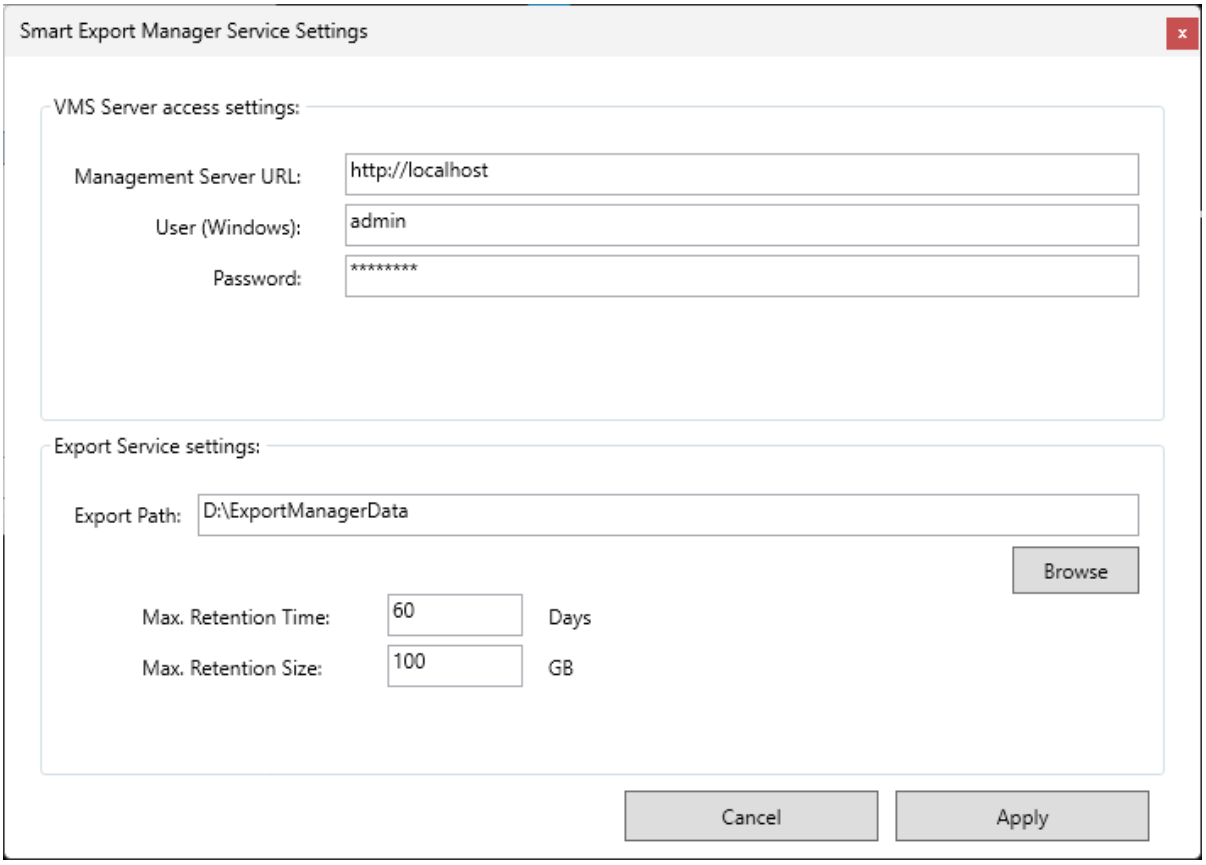
Download the Smart Export Manager Service and run the installer:





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Enter the VMS Server access data and configure the basic settings of the Export Manager:

- ➔ Export Path – Change this to a location on a drive with the required specifications
- ➔ Max. Retention Time – Number of Days the Exported Project should be retained on the disk
- ➔ Max. Retention Size – Maximum Space used on Disk in the Export Folder

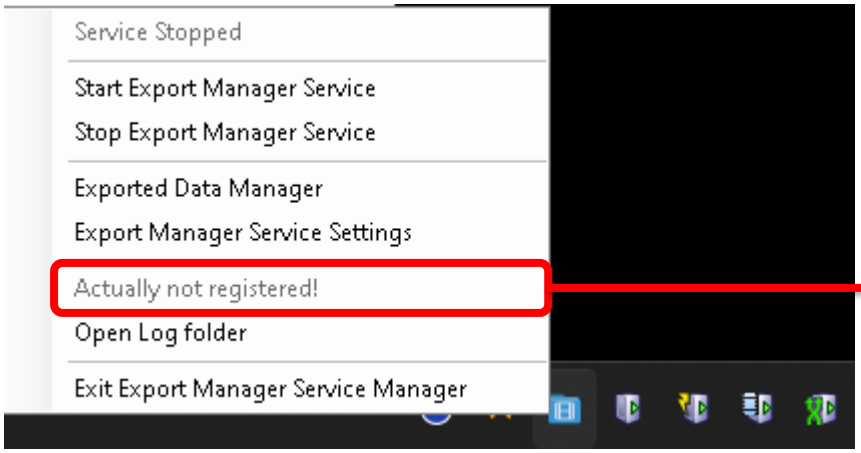
ATTENTION: Export Projects will be deleted if one of the criteria is reached, except for Export Projects which was locked in the Export Data Manager Application.

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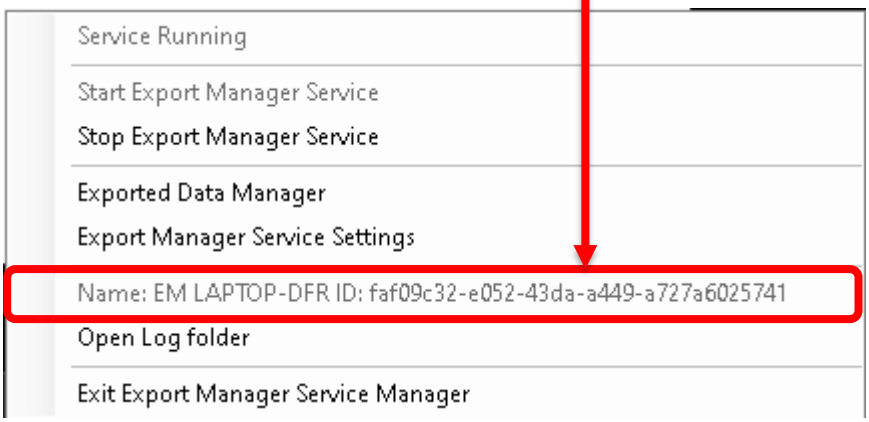
4 Smart Export Manager Configuration

4.1 Preparing the System and registering Export Manager Service

After the installation of all components, you can start the Export Manager Service(s). Use the System Tray Icon to start and stop the Service:



After starting the Service, it will automatically register to the Event Server and you will see the registration ID in the Context Menu.

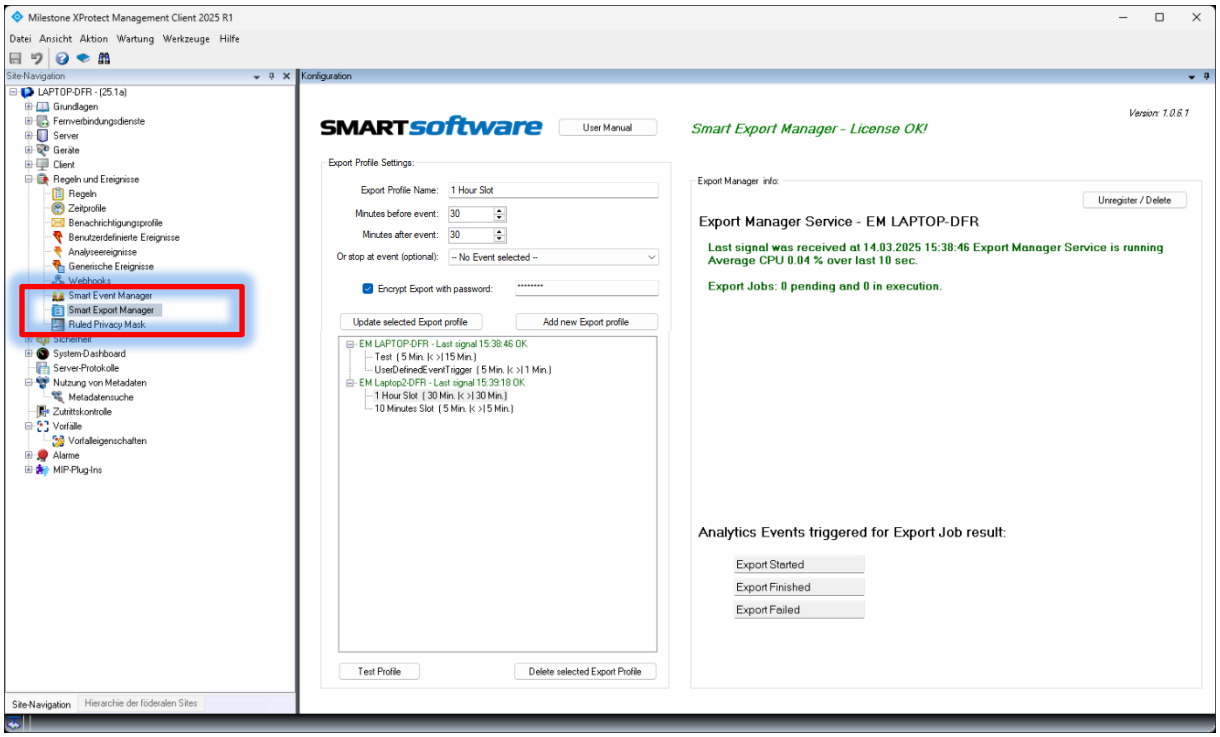


This Export Manager Service is now ready and you can start the configuration of the Export Profiles in the Management Client.

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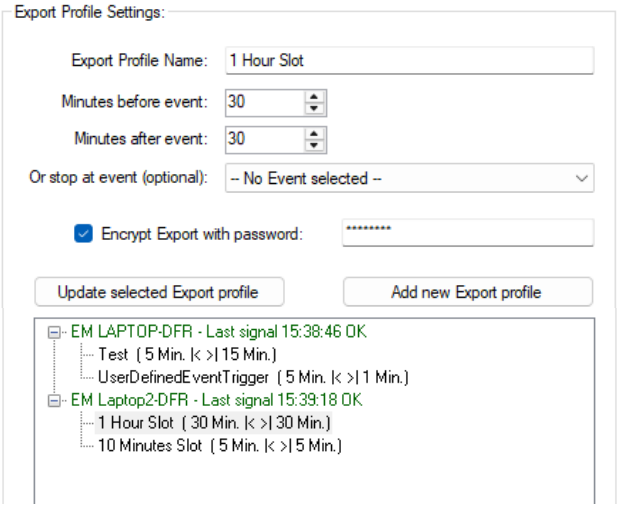
4.2 Configuration of Export Profiles in the Management Application

After a successful installation, you can start the Management Application. select the Menu entry on the left side under the Rules entry to enter the Configuration Interface of the Smart Export Manager.



The general Idea is to setup different Export Profiles. Those Profiles can then be activated by rules where you can define the Cameras which should be exported.

An Export Profile is a very simple Item. It consists of a Name, two-time parameters in Minutes and an optional event that can define the end time.



When a rule activates the Profile, it sends the Export Job to the Export Service. The Service will wait to start of the Export until the defined End Time or the triggering of the optional event, ensuring that all relevant recordings are available before the export begins.

If the Encrypt Export and a Password is set, the Exported Project will be password protected.

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On the right side you can see the actual status of the Export Manager Service. It shows the CPU level over the last few Seconds and shows you the Export Job status.

The Export Service automatically creates three different Analytic Events in the System which can be used for Rules or Alarmadefinitions for further actions or information:

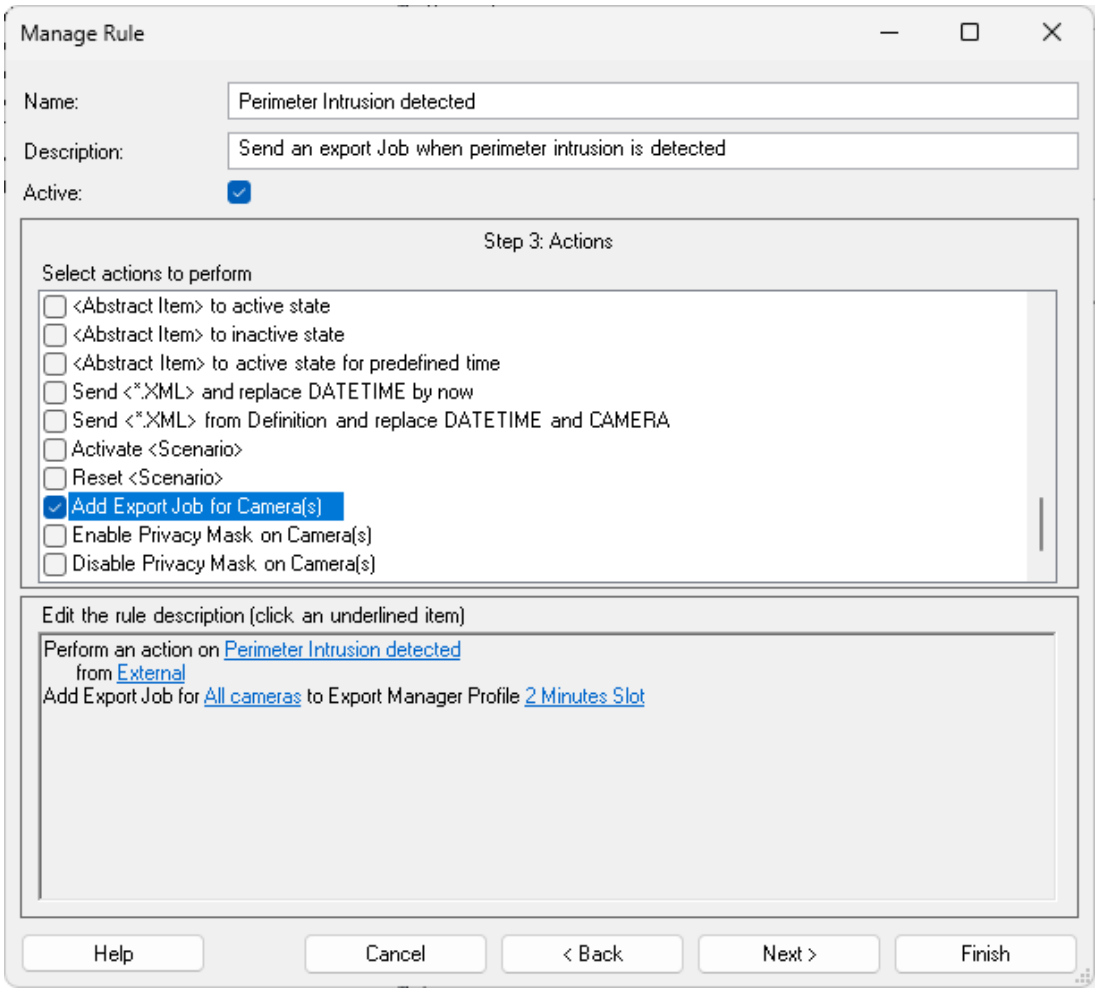
- Export Started: When an export Job starts
- Export Finished: When an export Job has finished
- Export Failed: When an error happened during the Export (eg. No recordings available etc.)

By using the “Test Profile” Button at the bottom, you can select some cameras and send the Export Job immediately to the Export Service.

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4.3 Creating rules to activate Export Manager Profiles

Create a new Rule in the Management Client and select your desired Source and Condition. In the Action you can now select “Add Export Job for Camera(s)”:



- **Click on “Camera(s)” to select the Cameras to Export (Metadata or Select the devices)**
- **Click on “Export Profile” and select the Export Profile to be executed**

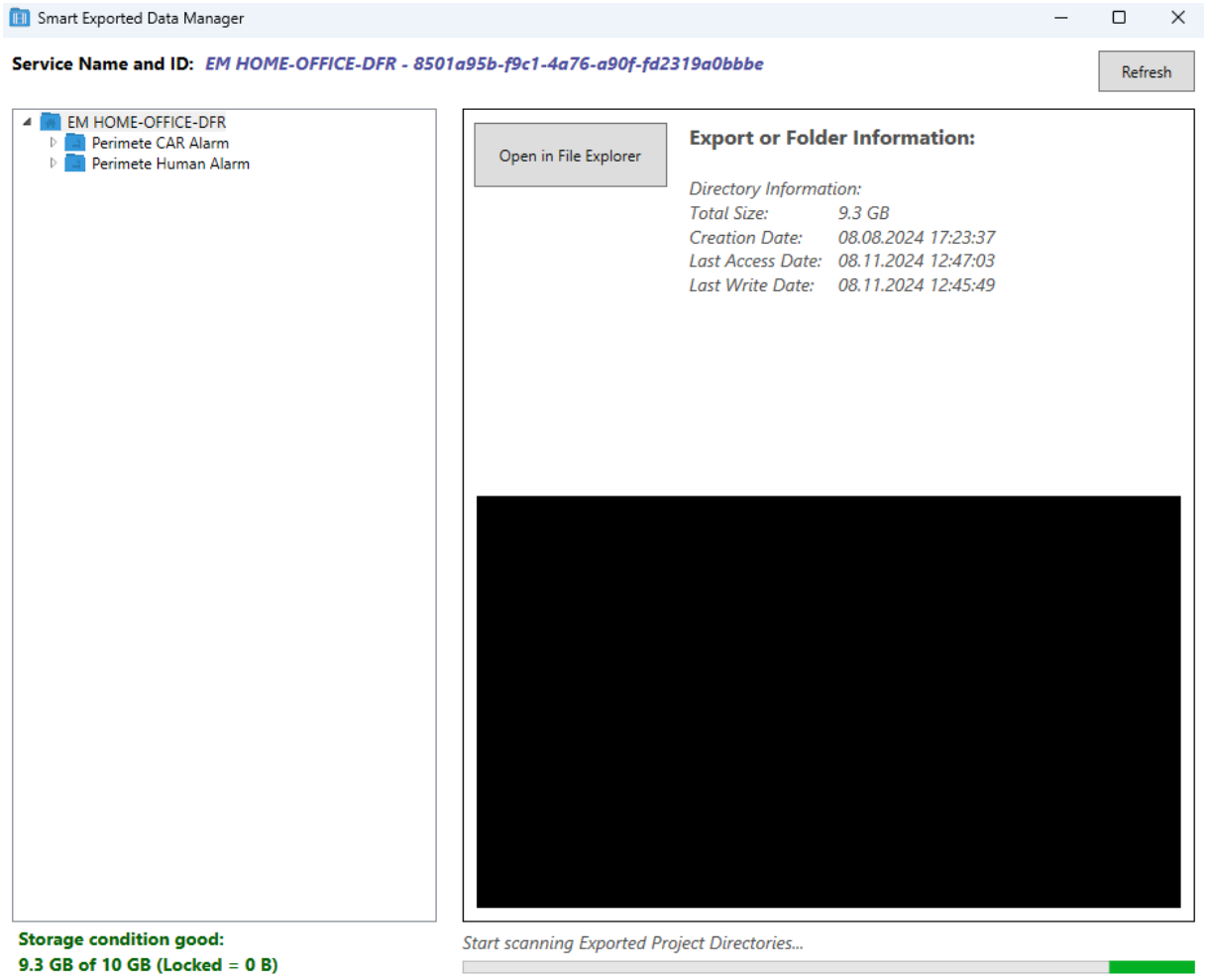
Now the Configuration is done and the EventServer Plugin will pass the export Job to the Export Manager as soon as the Rule is triggered.

PLEASE NOTE:
The Event Server will buffer pending Export Jobs till the Export Manager Service had executed them and returns a valid response. This means that you can shut down or restart the Export Manager Service without losing Export Jobs during this Time. Please be aware, that it is not recommended, that the Export Manager Service is offline during a long period of time, as it will execute all buffered Jobs sequentially as soon as it is back online.

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5 Using the Smart Export Data Manager

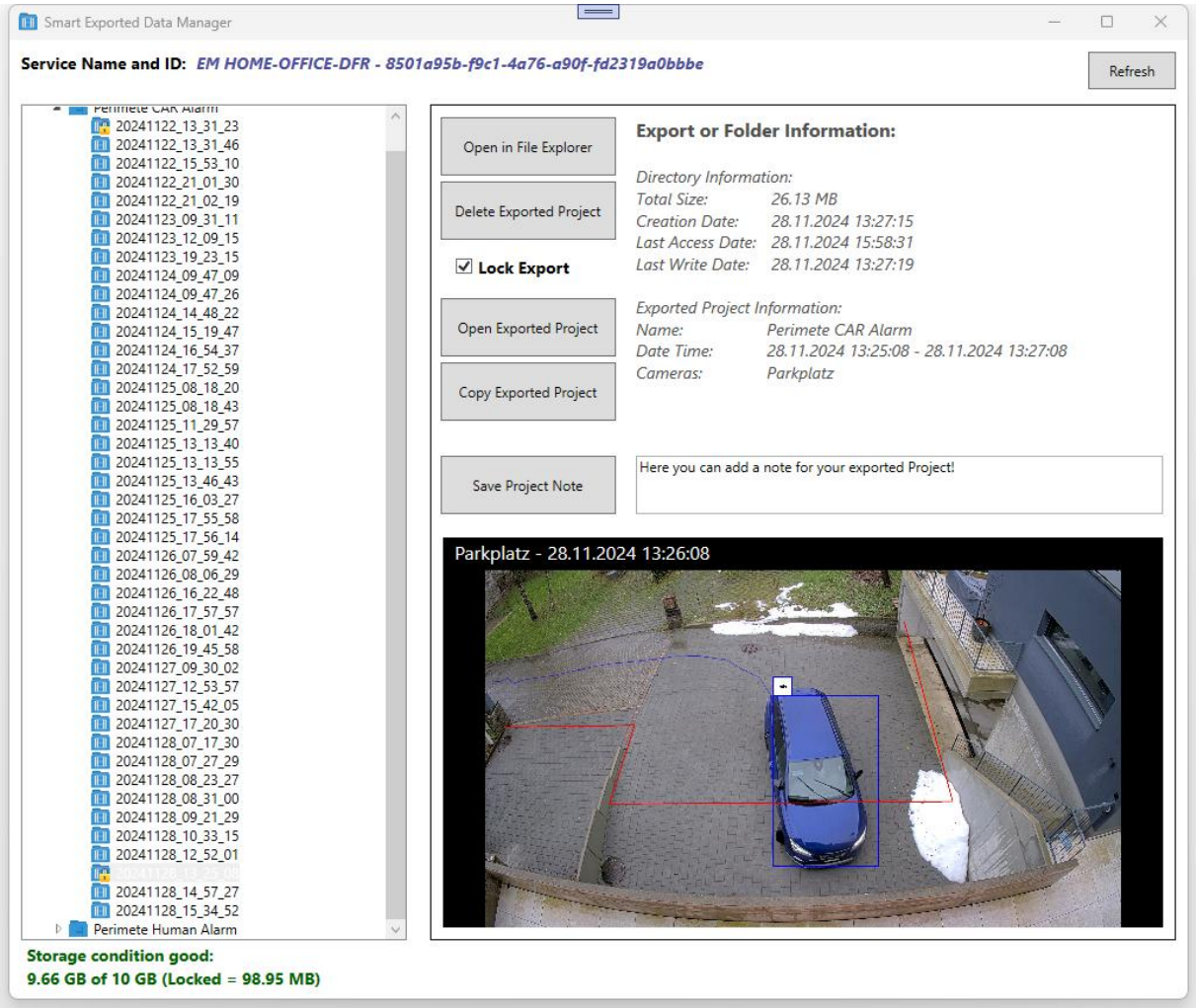
The Smart Export Manager Service installs an application to see and manage Exported Projects on that Computer. You can open the Software by clicking on the “Smart Export Data Manager” Desktop Icon or through the System Tray Context Menu:



The application is observing the Export Folder and will update it as soon as there are some changes. You can directly open the selected directory in the File Explorer.
The indicator at the bottom left side informs you about the current storage condition and health state.

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As soon as you select an Export Project entry in the Tree View the information and the available functions are shown:



- Use the “Delete Exported Project” Button to remove this (or all selected) Export Projects.
- If an export Project is selected you can directly open the Exported Project in the Smart Client Video Player if the Smart Client is installed on that Computer.
- If this Exported Project needs to be excluded from the data removement cycle, you can lock this Export.
- Add a note to the Exported Project and Save it
- The Smart Export Manager Service takes Snapshots for the time the rule was activated for each Camera. This gives you an overview of the Exported content.
- With “Copy Exported Project” you can copy Exported Project to another drive (e.g. USB drive). In this case it will also add a Smart Client Video Player to the Copied Export Project.

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6 Log-Files

The System is writing log-files which are stored over 5 days by default. They are used for verification during the roll out and are useful for troubleshooting.

The log-files contains all relevant information about the Exported Status and Disk health.
The log-files are stored for each day and are in the following ***hidden*** folder:

Export Manager - Windows Service:
C:\ProgramData\SmartSoftware\ER.SmartExportManager\Logfiles\ServerService

Export Manager - Event Server:
C:\ProgramData\SmartSoftware\ER.SmartExportManager\Logfiles\EventServer

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