USER MANUAL

Version 1.2 - January 2017

Truck Manager

Disclaimer

This manual and the information contained herein are the sole property of EVS Broadcast Equipment SA and/or its affiliates (EVS) and are provided “as is” without any expressed or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. In particular, EVS makes no warranty regarding the use or the consequences of use of this manual and the information contained herein. Furthermore, EVS may not be held liable for any direct or indirect, incidental, punitive or consequential loss, damage, cost or expense of any kind whatsoever and howsoever resulting from the normal or abnormal use of this manual and the information contained herein, even if advised of the possibility of such loss, damage, cost or expense.

While every effort has been made to ensure that the information contained in this manual is accurate, up-to-date and reliable, EVS cannot be held liable for inaccuracies or errors that may appear in this publication. The information in this manual is furnished for informational purpose and use only and subject to change without notice.

This manual cancels and replaces any previous versions thereof.

Copyright

Trademarks

All product and brand names are registered trademarks and trademarks of EVS or of their respective owners.

Improvement Requests

Your comments will help us improve the quality of the user documentation. Please send improvement requests, or report any error or inaccuracy on this user manual by e-mail to doc@evs.com.

Regional Contacts

You will find the full list of addresses and phone numbers on the following webpage: http://www.evs.com/contacts.

User Manuals on EVS Website

The latest version of the user manual, if any, and other user manuals on EVS products can be found on the EVS download center, on the following webpage: http://www.evs.com/downloadcenter.

Table of Contents

What's New?

In the Truck Manager user manual, the icon NEW ! has been added on the left margin to highlight information on new and updated features in release 1.2.

NEW ! The changes linked to new features in version 1.2 are listed below:

Windows 10 support.

LSM Connect on Mini PC (Minix hardware) is detected and identified with a dedicated icon in the main window.

- See section "Mini PC Device" on page 37.

1. Introduction

1.1. Product Overview

The production setup has become more and more IT-based, which is increasingly complex and time-consuming. Truck Manager aims at reducing the configuration and support time of EVS products in a truck environment.

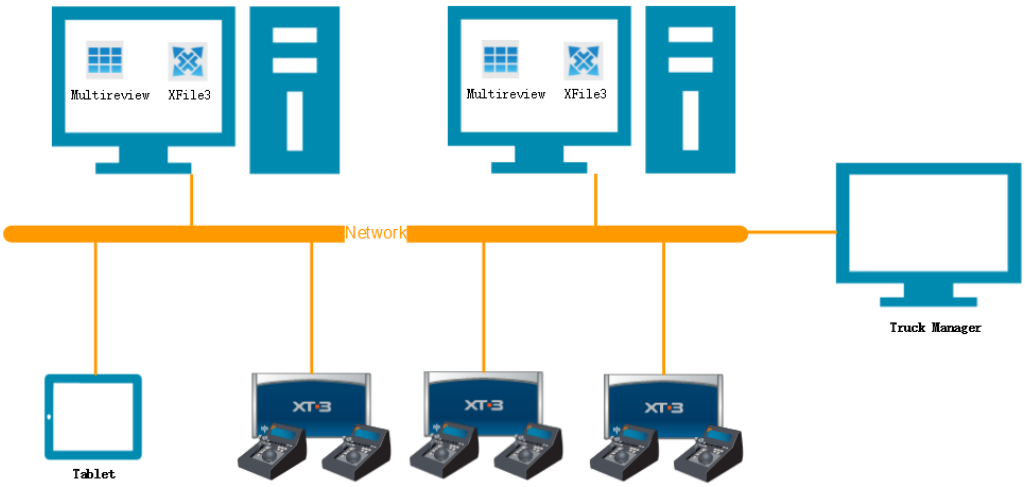
Via the Truck Manager wizard, the application displays automatically every detected EVS product present on a setup. For a given production, users can then select the requested EVS connected devices or/and add unconnected devices. In addition, they can specify main and network parameters for the production.

Via the Truck Manager main window, based on the configuration performed in the wizard, users can modify the parameters of the various devices, associate offline devices to online devices, and apply the configuration to online devices on the setup. The technical staff is able to save the global configuration to a USB stick for future use.

The following products can be managed with Truck Manager:

- EVS series servers;
- Multicam;
- LSM Connect;
- XFile3;
- MultiReview;
- XFly Streamer;
- NanoAir

The following diagram shows the overall architecture of the whole system:



1.2. Requirements

Software Requirements

NEW !
- Microsoft .Net Framework 4.6
- Multicam Version: 12.05.60 or higher
- The XSecure licenses for Truck Manager (modules 21 & 22) can be installed from the Truck Manager application. Refer to the user manual for more information.

Hardware Requirements

The minimal hardware requirements to install the Truck Manager are the following:

- Workstation or server
- **CPU:** Intel Dual Core i5
- **RAM:** 2 GB

NEW !
- **OS:** Windows 7 or 10 (64 bits or 32 bits)
- **VGA:** 1024 x 768
- Ethernet board installed
- At least 2 GB free on the hard disk

1.3. Starting Up Truck Manager

Introduction

The Truck Manager application consists of the Truck Manager wizard on one hand, and the Truck Manager main application on the other hand:

- The wizard allows you to define the connected or unconnected devices to be used in your production, and to configure the setup and audio/video settings for this production.

  In the user manual, these configuration steps will be named **Truck Configuration**.
- The main application displays the setup defined in the wizard. It allows you to modify the device configuration, and apply it to the physical devices on the setup.

  In the user manual, these configuration steps will be named **Device Configuration**.

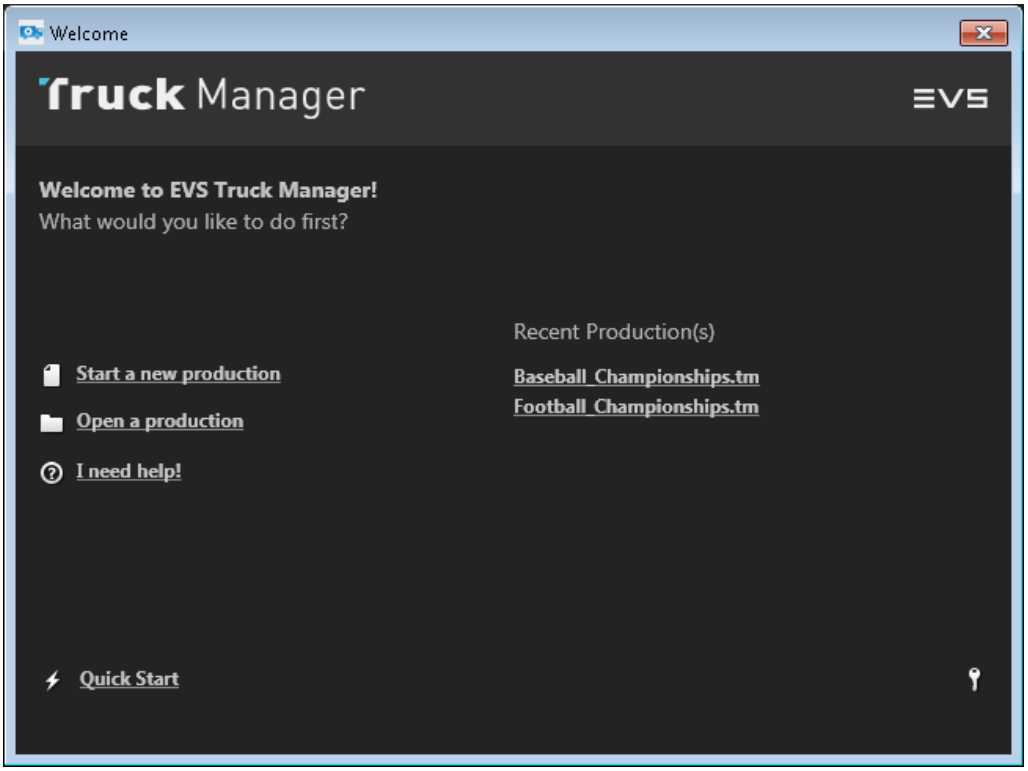
The whole configuration performed in the Truck Manager application will be referred to as **Production Configuration**.

Lauching a Production

When you open the Truck Manager application via the Start menu or the Truck Manager icon on the desktop, the Welcome window opens.

From the Welcome window, the following options are available to create a new production or launch an existing production:

- Starting a New Production from the Wizard
- Starting a New Production with the Quick Start Option
- Opening a Recent Production
- Opening a Production from a Configuration File



Starting a New Production from the Wizard

Starting a new production from the wizard allows you to create a new production, by defining the devices you will use in the production, as well as infrastructure and general audio and video settings.

Then you will configure the devices and apply the configuration to the physical devices in the Truck Manager main application.

To start a new production, proceed as follows:

1. Click 

.
2. Define your setup in the setup wizard.

   See section "Truck Configuration" on page 11.

Click <Previous or Next> to switch tabs in the wizard.

3. Click Finish in the Summary tab to apply all the settings defined in the wizard to the devices in the Truck Manager main application.

After defining the devices for your production in the wizard, the defined configuration elements are automatically displayed in the Truck Manager main window. See section "Device Configuration" on page 26.

Starting a New Production with the Quick Start Option

The **Quick Start** option allows you to create a new production with all EVS devices discovered on the network. Doing this, you skip the wizard and directly open the new production in the main window.

All EVS devices discovered on the network and their infrastructure settings will be available in the Truck Manager main window.

You can then start configuring the devices for your production. See section "Device Configuration" on page 26.

Opening a Recent Production

The **Recent Production** list allows you to rapidly open local configuration files corresponding to productions you have recently created or edited.

To open a recent production in Truck Manager, proceed as follows:

1. Click a production in the **Recent Production** list.

   A message window opens.

2. Click **Yes** or **No** to respectively take over or not the infrastructure settings into the production configuration.

   See "Which Infrastructure Settings to Apply?" on page 6.

The main application window opens with the production definition available on the left.

You can then start configuring the devices for your production. See section "Device Configuration" on page 26.

Note
After you open a production by selecting it from the Recent Production list, all devices appear in Truck Manager are in offline mode.
See section "Associating Devices" on page 51 for device association.

Opening a Production from a Configuration File

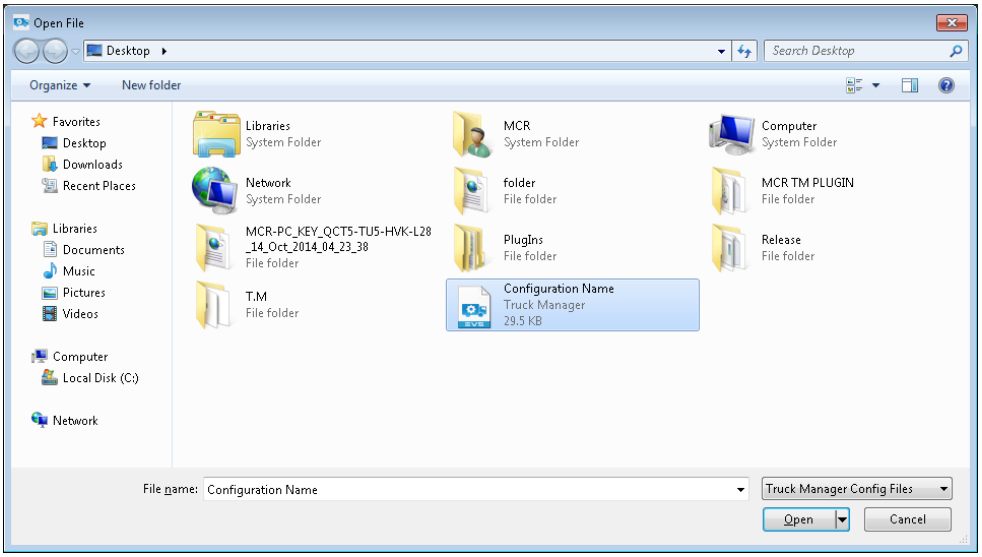
Opening a production from a configuration file allows you to open, in the Truck Manager main window, the production configuration stored in a configuration file. You will then be able to associate and apply the configuration to the physical devices.

You can also open a production by double clicking a production file in Windows Explorer.

1. Click 

   The Open File window is displayed.

2. Select the production configuration file on the local computer and click **Open**.



   A message window opens.

3. Click **Yes** or **No** to respectively take over or not the infrastructure settings into the production configuration.

   See "Which Infrastructure Settings to Apply?" on page 6.

The main application window opens with the production definition available on the left.

You can then start configuring the devices for your production. See section "Device Configuration" on page 26.

Note
When you open a production using the **Open a Production** option, all devices in Truck Manager are in offline mode.
See section "Associating Devices" on page 51 for device association.

Which Infrastructure Settings to Apply?

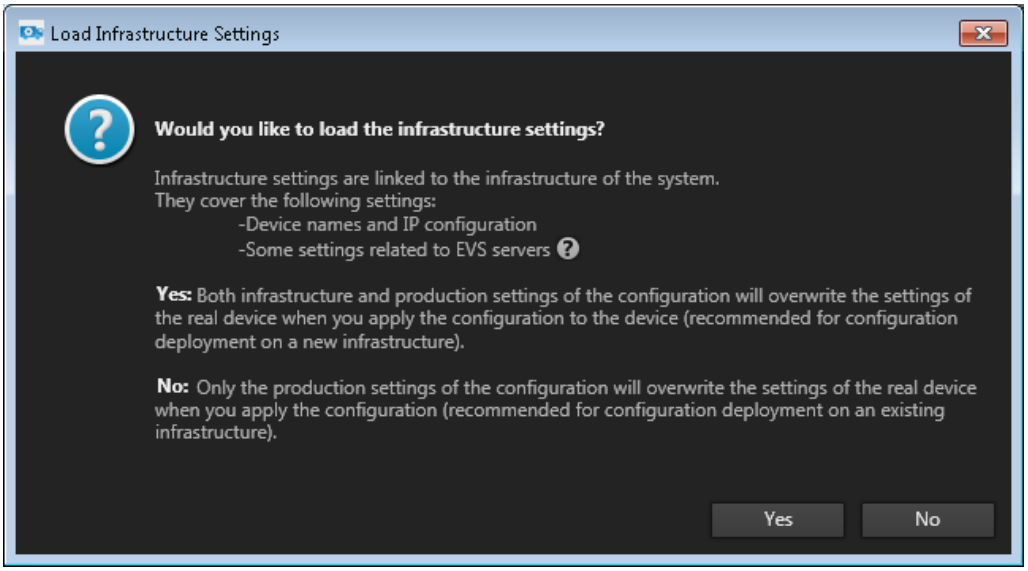
The following message window appears each time you open an existing production in Truck Manager, either by selecting a recent production, or by selecting a production configuration file. You need to choose between the following options:

- Click **Yes** to take over both infrastructure and production settings from the production configuration.

  This is recommended for configuration deployment on a new setup.

- Click **No** to take over only the production settings from the production configuration, but not the infrastructure settings. The Infrastructure settings of the current setup will be preserved.

  This is recommended for configuration deployment on an existing setup.



1.4. Activating the Truck Manager License

Introduction

The Truck Manager requires the XSecure software licenses 21 and 22.

The compatible version of the XSecure application is automatically installed with the Truck Manager.

You can activate the XSecure licenses in a dedicated window in the Truck Manager application itself.

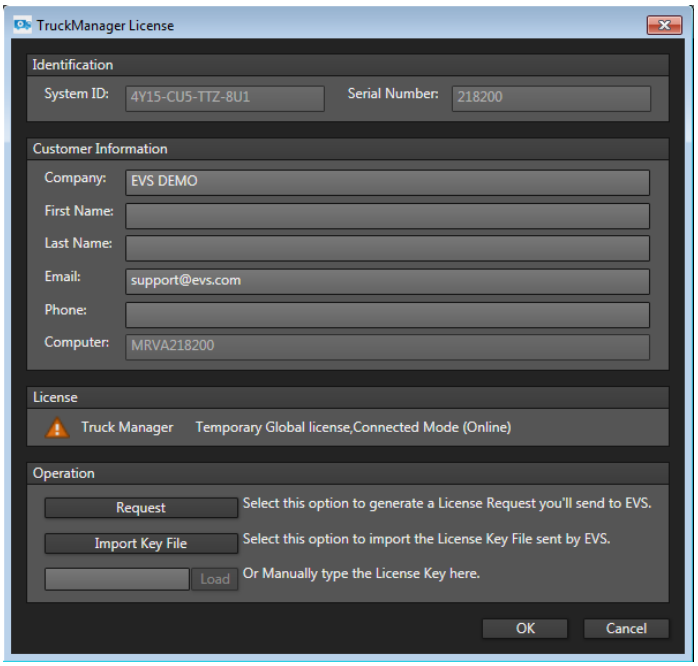
This section describes how to activate the Truck Manager licenses in the Truck Manager application.

How to Activate the Truck Manager License

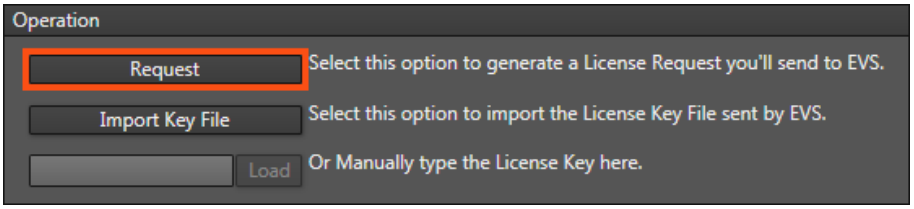
To activate the TM license, proceed as follows in the Truck Manager application:

1. Click the License Key icon displayed in one of the following windows:
   - Bottom right of the Welcome window;
   - Top right of the main application window in the title bar.

   The Truck Manager License window opens:

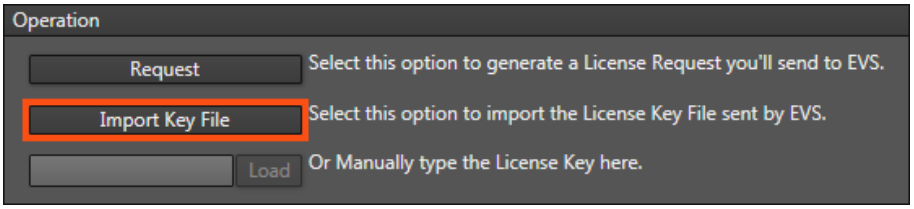


2. In the TruckManager License window, click the **Request** button in the **Operation** area at the bottom of the window:



3. Store the .xml file generated on your desktop and send it to the EVS Support explaining you would like Truck Manager license keys.

4. When you receive the file containing the license key from the EVS Support, open the License window in Truck Manager, and click the **Import Key File** button in the **Operation** area:



5. Select the file you have received and click **Open**.

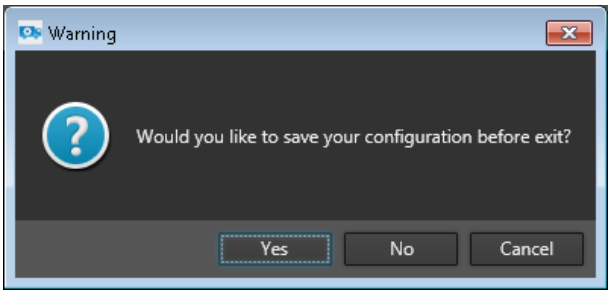
Note
If you prefer, you can type the license key stored in the file you have received in the bottom field and click **Load**.

The license key number is imported. In the License window in Truck Manager, the license granted is described in the License area.

1.5. Shutting down Truck Manager

Introduction

When you click  to shut down Truck Manager, a warning message displays to enable you to save the current configuration.



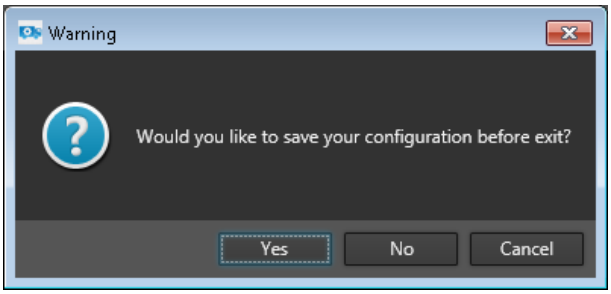
- Click **Yes** to save the current configuration and shut down Truck Manager.
- Click **No** to exit Truck Manager without saving.
- Click **Cancel** to go back to Truck Manager.

Saving the Current Configuration

Saving the current configuration stores the whole configuration in Truck Manager as a local file.

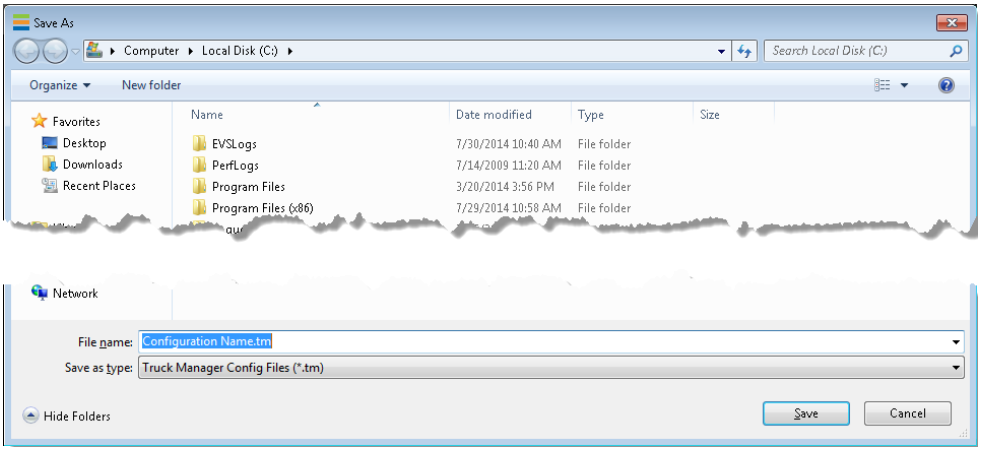
To save the current configuration, proceed as follows:

1. Click **Yes** in the warning window.

   A Save As window pops up.

2. Select the requested destination on the local computer.



3. Type a configuration name in the **File Name** field.
4. Click **Save**.

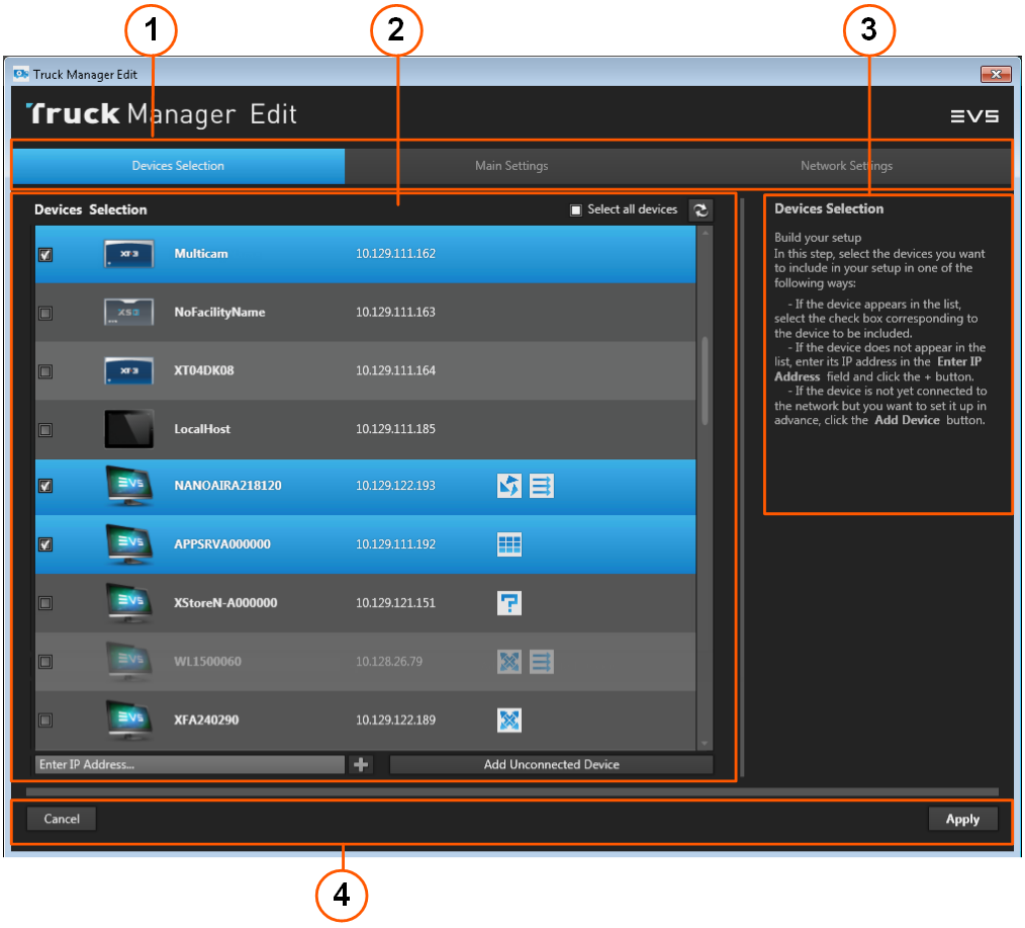
2. Truck Configuration

2.1. Overview of the Wizard

Introduction

In the Truck Manager wizard, you define the EVS devices you want to use and you configure general settings for the production.

These configuration elements are then applied to the Truck Manager main window, in which you can further configure the individual devices and apply the device configuration to the physical devices.



Area Description

Each window of the Truck Manager wizard includes the following areas:

#	Area	Description
1	**Tab** area	Area where the currently open tab is highlighted in blue.
2	**Working** area	Area where you will perform the requested actions.
3	**Help** area	Help pane to summarize the actions you can perform in the open tab.
4	**Commands** area	Command buttons in the Truck Manager wizard: • **Cancel** button to exit the wizard. • **Next/Previous** button to go to the next or previous tab. • **Finish** button (on the last tab) to validate the truck configuration, exit the wizard and open the Truck Manager main window with the defined truck configuration and global settings.

Wizard Tabs

The Truck Manager wizard includes the following tabs:

Step	Tab	Description
1	**Device Selection**	Enables you to select and define the devices to be used in the production. See section "Device Selection Tab" on page 13.
2	**Main Settings**	Enables you to define the video and audio settings applicable to EVS video servers. See section "Main Settings Tab" on page 19.
3	**Network Settings**	Enables you to define the settings for the various local networks applicable in the Configuration area of the main application window. See section "Network Settings Tab" on page 21.
4	**Summary**	Enables you to review the setup defined in the wizard. See section "Summary Tab" on page 24.

2.2. Device Selection Tab

Introduction

The Device Selection tab is the 1st step of the wizard. This window lets you select or add the EVS devices you want to use in the production, and you will configure later on in the main window.

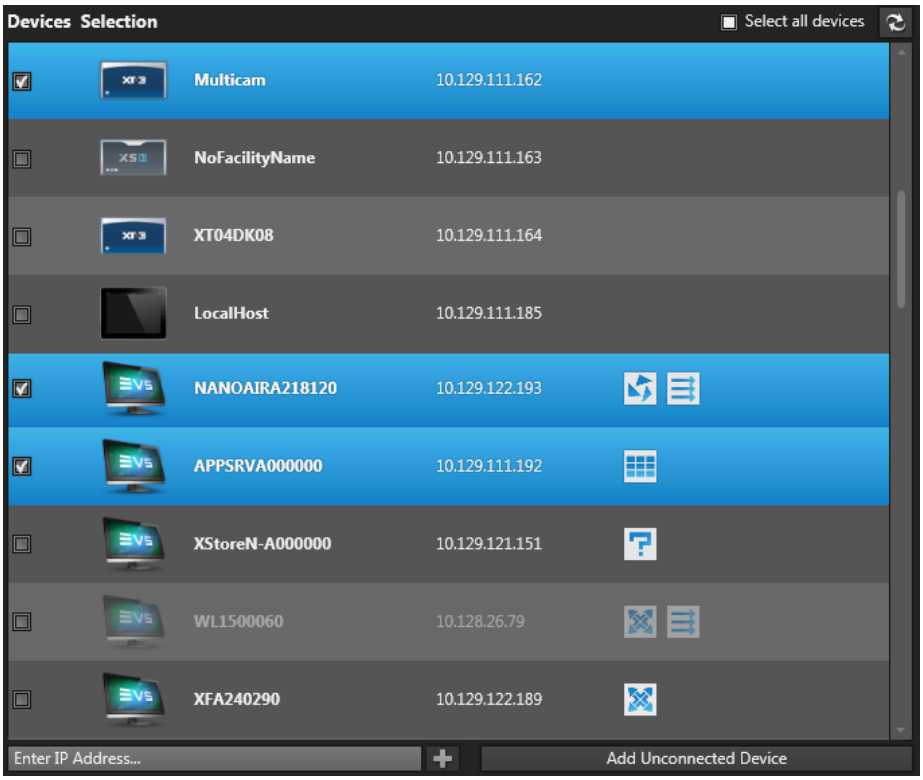
This section describes only the Device Selection area as all actions are performed in this area.

See section "Overview of the Wizard" on page 11 for a description of the other parts of the window.

Device Selection Area

The **Device Selection** area displays all detected EVS devices that host one or more applications manageable by Truck Manager.

The devices can be EVS servers, tablets or computers. The devices are listed in this order.
If you have installed the discovery service (DiscoverClient.msi) on an EVS computer that does not host any application manageable by Truck Manager, this computer will appear in the list. Having access to such a computer will let you manage its infrastructure settings from Truck Manager. See section "Configuring Infrastructure Parameters of a Device" on page 56.



Field Description

Select All Devices Button

Check box that allows you to select or unselect all discovered devices at a time.

Refresh Button

Button that allows users to refresh the discovered devices.

Add Connected Device Field

This field allows you to manually add a device that is available on the network, but has not been detected automatically.

See section "How to Manually Add Connected Devices" on page 17.

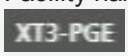
Add Unconnected Device Button

This field allows you to manually add a device that is not yet available on the network, but will be available on the production setup.

See section "How to Manually Add Unconnected Devices" on page 17.

Server Area

The Server area is made up of several elements, described in the table below, from left to right:

GUI Element	Description
Check box	Check box to select the device when it has to be included in the production configuration
Device icon 	Icon identifying what type of server is discovered
Facility name 	Facility name of the discovered server
IP address 	PC LAN IP address of the discovered server

Computer Area

The Computer area is made up of several elements, described in the table below, from left to right:

GUI Element	Description
Check box	Check box to select the device when it has to be included in the production configuration
Device icon 	Icon identifying a computer
Computer name 	Name of the discovered computer
IP address 	PC LAN IP address of the discovered computer
Application icons 	Icon of the application(s) installed on the discovered computer (MultiReview, XFile3, ..., or unidentified product)

2.3. Adding and Selecting Devices

Introduction

The first step of the wizard, the Device Selection tab, lets you:

- view EVS devices, detected on the network, that host a software program manageable byTruck Manager;
- view EVS devices, detected on the network, on which the Truck Manager discovery service is installed;
- add an undetected EVS device that is connected to the network;
- add an unconnected EVS device that will later be used in the production.
- select the devices you want to use in the production you are planning.

All selected devices, connected or not to the network, will appear in the Truck Manager main window where you will be able to further configure the software-related parameters.

Note
Truck Manager can manage up to 16 devices simultaneously.

How to Select Devices Individually

In the Device Selection tab, you can select one or more devices via the check box in front of the device:

- For auto-detected devices, click the check box or device area corresponding to the device(s) you want to use in the production.
- For manually added devices (connected or not), the device is automatically selected to be included in the production after it has been added.

How to Select or Unselect all Devices

- In the Device Selection tab, click the check box 

to select or deselect all detected devices at a time.

How to Manually Add Connected Devices

Using a valid IP address, you can manually add a connected device which has not been discovered by Truck Manager.

To manually add a connected device, proceed as follows:

1. In the **Add Connected Device** field, type the valid IP address of the device to be added.

2. Click  .

If the device is identified on the network and includes EVS software manageable with Truck Manager, it is added in the Device Selection area and selected automatically.

How to Manually Add Unconnected Devices

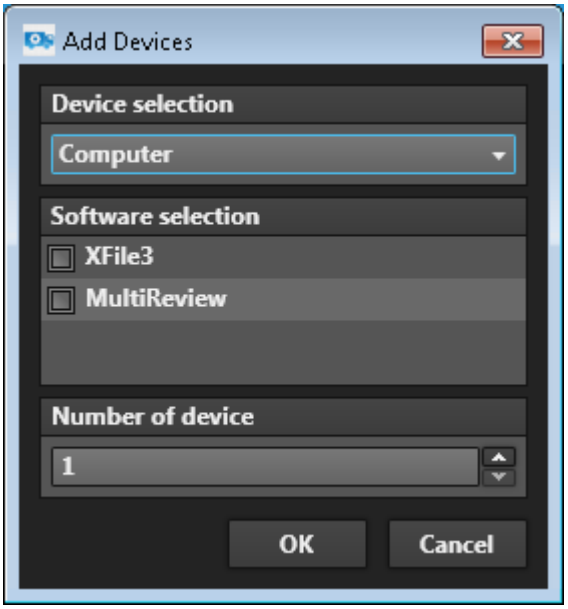
You can manually add devices that you will use in your production, but are not connected yet to the network.

To manually add an unconnected device, proceed as follows:

1. Click 

   The Add Devices window opens.

2. Do the following operations in the Add Devices window:
   a. In the **Device selection** field, select the type of device you want to add.
   b. In the **Software selection** field, select the product that will be installed on the device.
   c. In the **Number of devices** field, specify how many devices of that kind you want to add.



3. Click OK.

The added unconnected devices are displayed with dimmed font and device icons in the Device Selection area and selected automatically.

How to Refresh the Device List

Click  to update the current discovered devices.

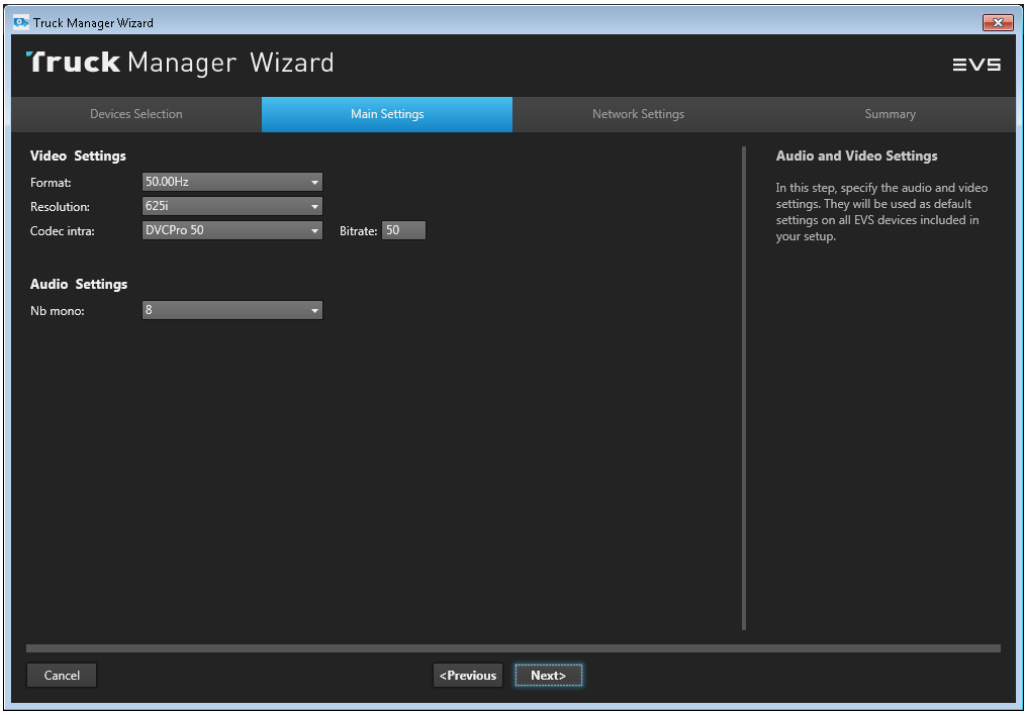
2.4. Main Settings Tab

Introduction

The Main Settings tab is the 2nd step of wizard. This window allows you define the main video and audio settings that you want to apply to EVS video servers by default.

The values defined in this window will be automatically filled in for the selected EVS servers in the Truck Manager main window, **Multicam Settings** section, **Server** area.

The screenshot below shows the Main Settings tab:



Field Description

Format

Description	Field frequency used (Hz). Both field rate and resolution give the video standard.
Values	50.00 Hz (PAL) - default 59.94 Hz (NTSC) 59.94 Hz (J)

Resolution

Description	Vertical resolution used (number of white-to-black and black-to-white transitions that can be seen from the top to the bottom of the picture) (pixel + type). Both field rate and resolution correspond to the video standard. With an Truck Manager, SD and HD video standards can be available if the relevant license codes are activated.
Values	In SD: • 525i • 625i In HD: • 720p • 1080i • 1080p (only available with code 21 or 22) In UHD: • UHDTV-4K

Codec Intra

Description	Algorithm used to compress and decompress the video signal. With Intra codecs, the compression techniques are performed exclusiverly relative to information contained within the current frame.
Values	Depends on resolution: In SD: • Mjpeg (SD) • IMX • DVCPro 50 In HD: • Mjpeg EVS (HD) • Mjpeg Standard (HD) • Mpeg 2 Intra (HD) • Avid DNxHD 120, 185 or 185x (only in 50 Hz) • Avid DNxHD 145, 220 or 220x (only in 59.94 Hz) • Apple ProRes 422, 422 LT, 422 HQ • DVCPro HD • AVC-Intra 100 • XAVC-Intra 100

Bitrate

Description	Number of megabits processed per second (Mbps). The bitrate depends on the codec.
Values	See the Multicam configuration manual, codec-related section for detailed information on bitrates per codec.

No. Mono

Description	Number of mono audio tracks associated to each video channel.
Values	4 Monos (default), 8 Monos, 16 Monos

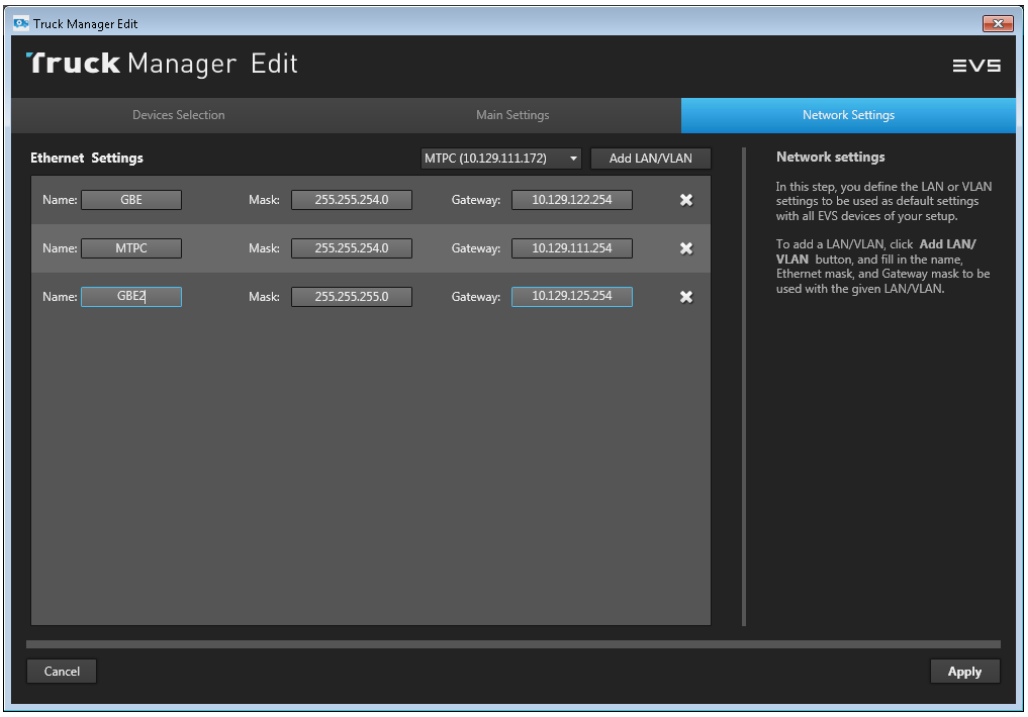
2.5. Network Settings Tab

Introduction

The Network Settings tab is the 3rd step of wizard. This window lets you define the LAN and VLAN settings to be available for the devices you will configure in the Truck Manager main window.

Each record for a **LAN/VLANs** defined in this window will be available in the main application, **Infrastructure** section, **Network** field.

The screenshot below shows the Network Settings tab.



Field Description

Add from Local Network Field

Drop-down field that allows you to add a LAN record based on a connected local network.

Add LAN/VLAN Button

Button that allows you to add a LAN/VLAN record in the Ethernet settings.

LAN/VLAN Record

A LAN/VLAN record is added when you click the **Add LAN/VLAN** button.

Each record is made up of several parameters, described below, from left to right:

Parameter	Description
Name	Name of the added LAN/VLAN
Mask	Mask of the added LAN/VLAN
Gateway	Gateway of the added LAN/VLAN
	Button that allows you to remove the corresponding LAN/VLAN record

2.6. Adding and Removing LAN/VLAN Settings

Introduction

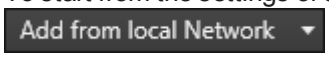
The 3rd step of the wizard, the Network Selection tab, lets you define (or remove) default mask and gateway settings for a LAN/VLAN.

You will be able to select one of the **LAN/VLANs** you define in this window and associate it to a device in the main application, **Infrastructure** section, **Network** field.

How to Add Default Settings for a (V)LAN

You can add default settings for a LAN/VLAN as follows:

1. In the Network settings window, do one of the following actions to add a new record for default (V)LAN settings:
   - To start with an empty record, click 

.
   - To start from the settings of a currently connected LAN, click the arrow on the field 

and select a local network from the list.

   A new row is added in the window.
2. In the **Name** field, type or modify the name for the LAN/VLAN.
3. In the **Mask** and **Gateway** , type or modify the IP addresses to be used as mask and gateway for the given LAN/VLAN.

The default settings for this LAN/VLAN are defined and will be available in the Truck Manager main application.

How to Remove Default Settings for a (V)LAN

You can remove default settings for a LAN/VLAN by clicking the **Remove** button  next to the LAN/VLAN record you want to remove.

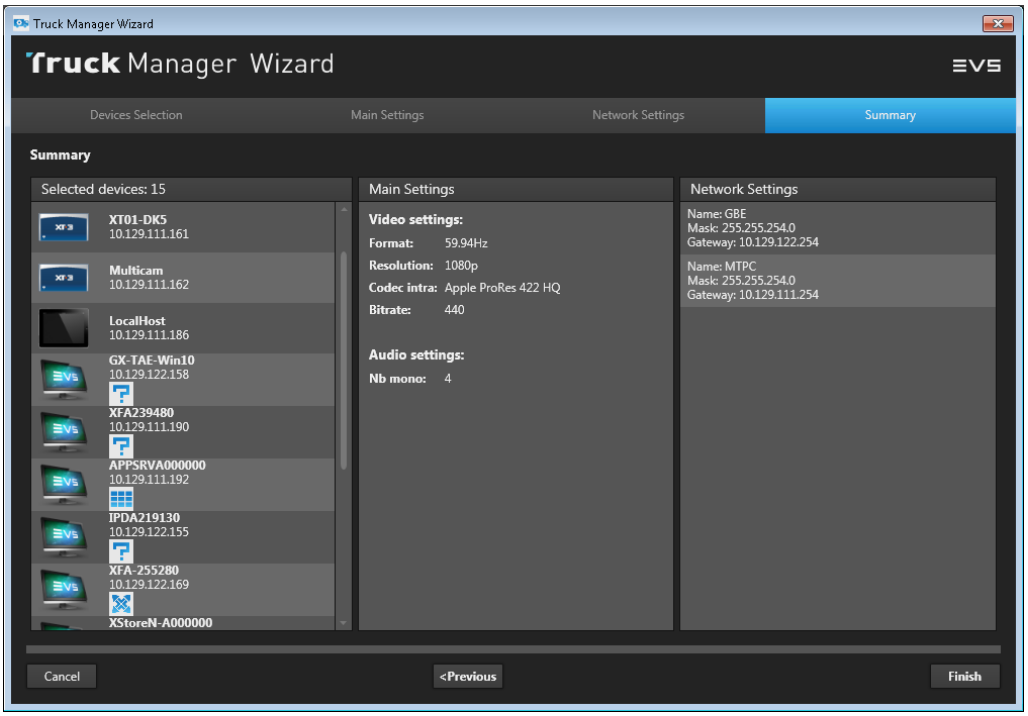
The settings for this LAN/VLAN record will no longer be available in the Truck Manager main application.

2.7. Summary Tab

Introduction

The Summary tab is the last step of the wizard. This window lets you check and validate the truck configuration and associated settings you have previously defined in the wizard.

The screenshot below shows the various areas of the Summary tab:



Area Description

The Summary tab consists of three areas that provide a summary of all elements of the setup you have defined in the first three tabs:

Area	Description
Selected Devices	It lists all the devices you have selected in the Device Selection tab, as well as the device name, IP address, and installed EVS software.
Main Settings	It lists the audio video settings that will be applied to the EVS servers selected for the production.
Network Settings	It lists all (V)LAN settings defined that will be available in the main window.

How to Check and Validate the Settings

In the Summary tab, do one of the following actions:

- Click Finish to validate the device selection and the settings, and enter the Truck Manager main window with the settings and devices defined in the wizard.
- Click <Previous to go back to a previous tab to modify defined settings.
- Click Cancel to leave the wizard without validating the settings and go back to the Welcome window.

3. Device Configuration

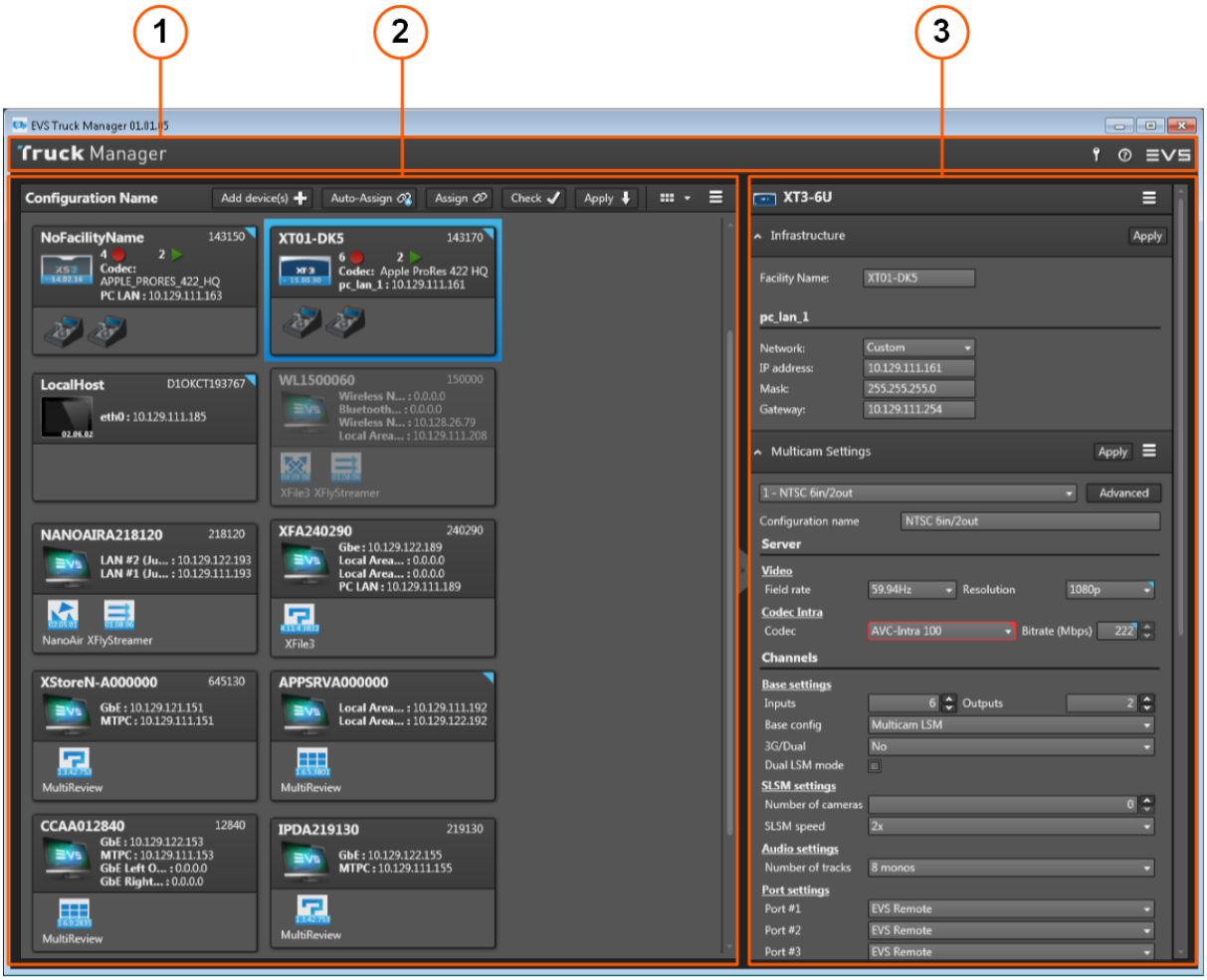
3.1. User Interface

3.1.1. Overview of the Main Window

Introduction

The Truck Manager main window aims at configuring the devices of the truck to be used for the production.

The devices displayed have usually been previously selected or added in the truck configuration via the Truck Manager wizard. Some infrastructure and audio/video settings for the EVS server have also been configured in the wizard.



Area Description

The Truck Manager main window is divided into the following areas:

Area	Name	Description
1.	**Title bar**	Bar from which you can access: • the Truck Manager License window, via the  License key icon, to manage the XSecure license. See section "Activating the Truck Manager License" on page 6. • the About window via the  window.
2.	**Device** area	Area that displays the devices being part of the setup. The devices can be displayed in two different views depending on the view selected with the **View** button at the top of the Device area: •  Box view: The devices are displayed in boxes •  List view: The devices are displayed in a list. In both views, the devices are displayed in the following order: EVS servers, tablets, computers. See section "Device Area" on page 28.
3.	**Configuration** area	Area that displays the configurable settings for the device selected in the **Device** area. See section "Configuration Area" on page 39.

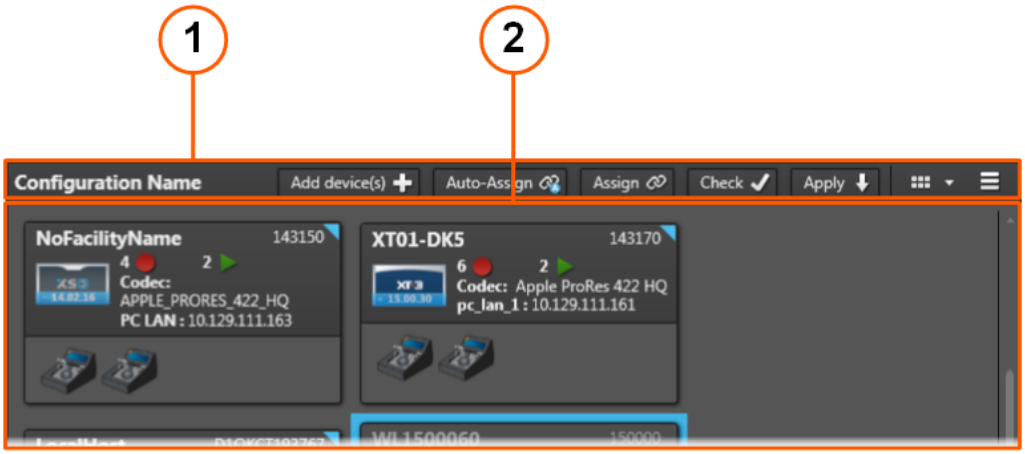
3.1.2. Device Area

Introduction

The **Device** area displays all devices selected or added in Device Selection tab in the Truck Manager wizard. Two views are available:

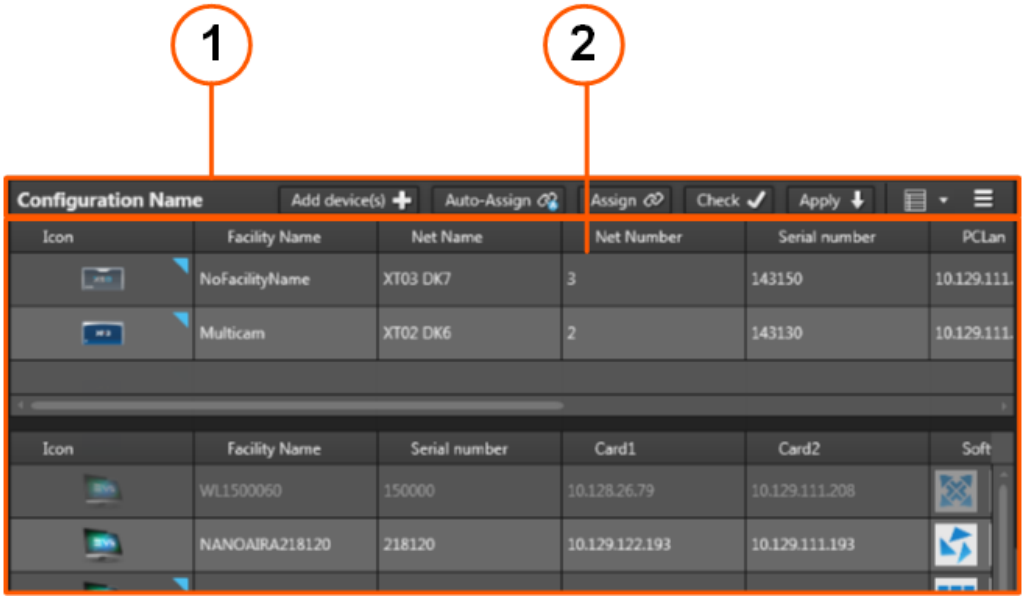
Box View

The devices are displayed as boxes:



List View

The devices are displayed as records of a list:



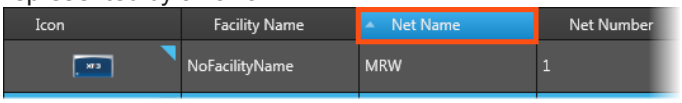
Area Description

The Device area includes the following areas:

#	Area	Description
1	**Toolbar**	Bar that displays: • the name of the production configuration • a set of buttons to perform global actions on all or several devices. See section "Device Area Toolbar" on page 30.
2	**Device** boxes or **Device** records	Area where all devices included in the production are displayed as: • boxes, in the box view (top) A selected box is surrounded by a blue thick line. • records, in the list view (bottom). A selected record is highlighted in blue. See section "EVS Server Device" on page 34, "Tablet Device" on page 36, "Computer Device" on page 38.

NEW !

Note
In list view, you can click a column header to sort the devices in ascending or descending order. Sorting is available on all columns with values.
The column on which items are sorted is highlighted in blue, and the sorting order is represented by an arrow:



Offline and Online Devices

Concepts

Online devices are devices which are detected and identified on the network by Truck Manager. The user can fully configure the settings of these devices. Each type of online device contains different information.

Offline devices are devices which are not available yet on the network (not connected, not running, etc.). The user can configure the settings of these devices, but some specific actions require the device to be online. In the box view, offline devices are displayed on a dimmed background.

Status Change

You need to assign offline devices to physical devices identified on the network for them to become online. See section "Associating Devices" on page 51.

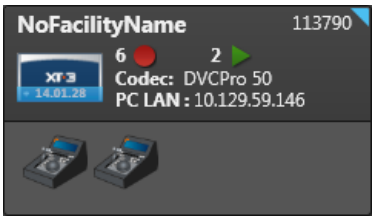
When you open a production configuration directly in the Truck Manager main window, all devices are offline.

When you open a production configuration just after you have gone through the wizard, the devices already detected on the network in the wizard are online.

An online device can change to an offline device if it loses connection.

Changes on Device Configuration

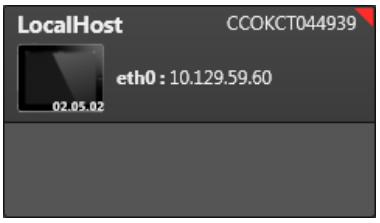
When the device configuration has undergone changes you still need to apply, a blue triangle is diplayed in the top right corner of the device box or record. You therefore need to apply configuration changes to the device.



NEW !

Errors on Device Configuration

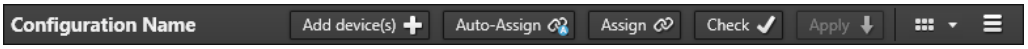
If configuration errors are identified on a given device, a red triangle is displayed in the top right corner of the device box or record. Point to the red triangle to display the errors associated to the device.



3.1.3. Device Area Toolbar

Introduction

The toolbar allows you to perform global actions on several or all devices included in the production configuration. When all devices are online, some buttons are no longer displayed in the toolbar.



Configuration Name Field

Click the **Configuration Name** field and enter the name you want to give to the production configuration you are working on.

The configuration name will be used by default to name the production configuration file in which you can save your configuration.

Add Device(s) Button

Click the **Add Device(s)** button to open the Truck Manager wizard, with the focus on the Devices Selection tab, and add rapidly a device to your setup.

Auto-Assign Button

Click the **Auto-Assign** button when you want to automatically associate offline devices to their corresponding physical devices identified on the network.

This button is displayed when you open a configuration directly in the main window.

See section "Associating Devices" on page 51 to learn about the various ways to associate devices.

Assign Button

Click the **Assign** button when you want to manually associate offline devices to their corresponding physical devices identified on the network. Truck Manager opens a window with physical devices that correspond to the offline devices.

This button is displayed is displayed as long as all devices are not assigned to physical devices.

See section "Associating Devices" on page 51 to learn about the various ways to associate devices.

Check Button

or

Click the **Check** button to check the device configuration and display a list of problems detected on the setup.

This button can be used anytime during the configuration, and should be used to check your production before you apply the production configuration.

See section "Checking the Configuration" on page 67.

Apply Button

or

Click the **Apply** button to apply the configuration defined in Truck Manager to all physical devices included in the production.
The **Apply** button is disabled when at least one error is detected on infrastructure settings. In this case, click the **Check** button in the toolbar to easily identify the errors.

See section "Applying the Configuration" on page 69 for detailed information about applying a configuration.

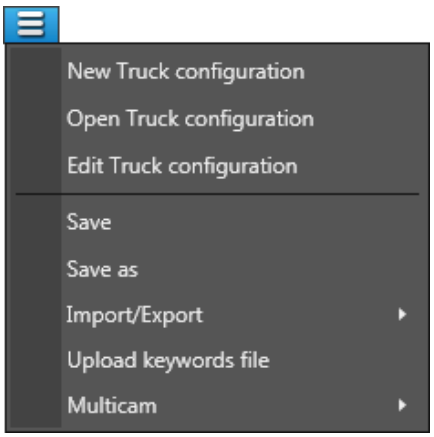
View Button

Click the **View** button to change the view on the devices between box view  and list view  .

Menu Button

Click the **Menu** button to access the secondary menu including the options described below.

Menu Commands

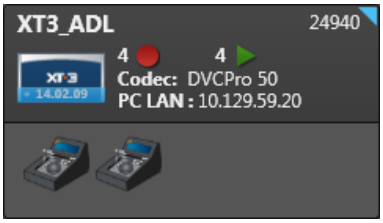


Menu Item	Description
New Truck configuration	Allows you to create a new truck configuration from the Truck Configuration wizard.
Open Truck configuration	Allows you to open a configuration file and load the associated configuration in the main window.
Edit Truck configuration	Allows you to change the truck configuration corresponding to the device configuration currently displayed in the main window.
See section "Changing the Truck Configuration" on page 46	
Save	Saves the production configuration into the current configuration file.
Save as	Saves the production configuration into a new configuration file.
See section "Saving a Production Configuration" on page 49 for more details.	
Import/Export	
> Export configuration to CSV	Allows you to export the production configuration information to a CSV file.
> Import configuration to CSV	Allows you to create a new configuration in Truck Manager based on an imported CSV file.
See section "Importing and Exporting a Production Configuration to a CSV File" on page 50 for more details.	
Upload keywords file	Allows you to select and upload a Multicam keyword file in Truck Manager and push it to the EVS servers.
See section "Uploading a Keyword File to an EVS Server" on page 66 for more details.	

Menu Item	Description
Multicam	
> Clear video clips	Allows you to clear video clips on all EVS servers of your setup.
> Clear only Intra clips	Allows you to clear intra clips on all EVS servers of your setup.
> Clear only LongGOP clips	Allows you to clear longGOP clips on all EVS servers of your setup.
> Clear only record trains	Allows you to clear record trains on all EVS servers of your setup.
> Cancel clear video disks	Allows you to cancel all clear actions requested from the Truck Manager, and not yet processed.
See section "Clearing Content on EVS Servers" on page 64 for more information about clearing content on one or more EVS servers.	

3.1.4. EVS Server Device

Box View

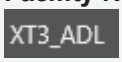
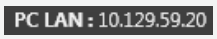


List View

Icon	Facility Name	Net Name	Net Number	Serial number	PCLan
	XT3_ADL	XT3_ADL	2	24940	10.129.59.20

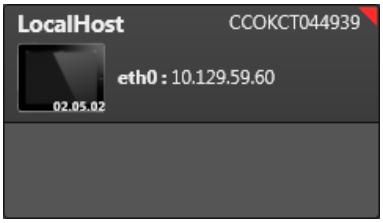
Field Description

The device box is made up of several elements, described in the table below, from left to right, and from top to bottom.

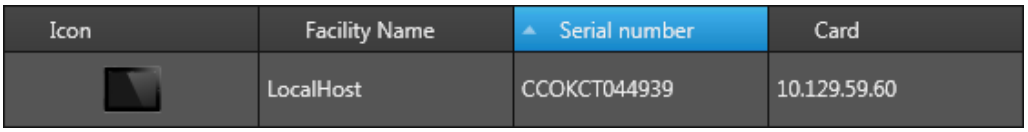
Name	Description	Box View	List View
Facility Name 	Facility name of the EVS server. If the EVS server does not have a facility name, **NoFacilityName** is displayed.	X	X
Net Name 	Name of the EVS server on the SDTI network.		X
Net Number 	Number of the EVS server on the SDTI network.		X
Serial Number 	Serial number of the EVS server	X	X
Icon 	Icon identifying the EVS server type	X	X
	Multicam version used	X	
Rec 	Number of record channels	X	X
	Super Slow motion record channels.	X	
Play 	Number of play channels	X	X
Codec 	Name of the codec of the configuration running on the EVS server	X	X
PC LAN 	PC LAN IP Address of the EVS server	X	X
Remote 	Icons of LSM Remote Panel(s) when the EVS server is connected and is controlled by one or more Remote Panels: • In Box view, the number of icons corresponds to the numer of LSM Remote Panels. • In List view, the number of LSM Remote Panels is displayed on the icon.	X	X

3.1.5. Tablet Device

Box View



List View



Field Description

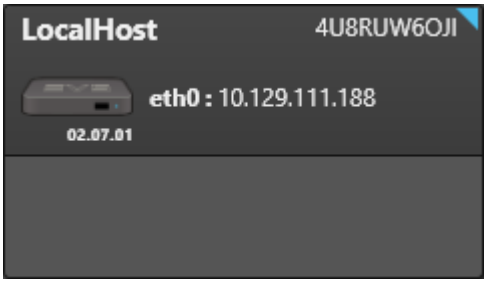
The device box is made up of several elements, described in the table below, from left to right, and from top to bottom:

Name	Description
Tablet Name	Name of the LSM Connect tablet.
Serial Number	Tablet serial number.
Icon	Icon identifying the tablet, and the LSM Connect version used (only in Box view)
TCP/IP Port Name and Address	TCP/IP Address assigned to the network port of the tablet.

3.1.6. Mini PC Device

NEW !

Box View



List View

Icon	Facility Name	Serial number	Card
	LocalHost	4U8RUW6OJI	10.129.111.188

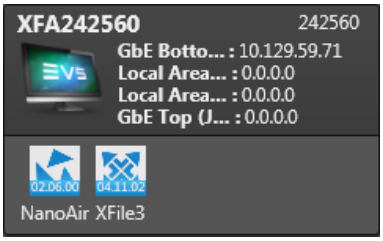
Field Description

The device box is made up of several elements, described in the table below, from left to right, and from top to bottom:

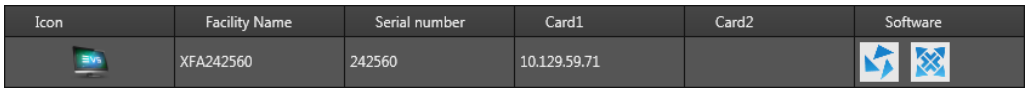
Name	Description
Mini PC Name	Name of the Mini PC containing LSM Connect.
Icon	Icon identifying the Mini PC, and the LSM Connect version used (only in Box view)
TCP/IP Port Name and Address	TCP/IP Address assigned to the network port of the mini PC.
Serial Number	Serial number of the Mini PC.

3.1.7. Computer Device

Box View



List View



Field Description

The device box is made up of several elements, described in the table below, from left to right, and from top to bottom:

Name	Description
Computer Name XFA242560	Name of the EVS computer.
Serial Number 242560	Serial number of the EVS machine.
Computer Icon 	Icon identifying the computer.

Name	Description
TCP/IP Port Name and Address Local Area... : 0.0.0.0 PC LAN : 10.129.111.32 LAN #1 (Ju... : 10.129.111.34 LAN #2 (Ju... : 10.129.122.34 Gbe (Jumb... : 10.129.122.32	TCP/IP Addresses assigned to the network ports of the computer. The name of the Local Area Network ports are taken over from the Network Connections configuration in MS Windows.
Application Icons	Icons identifying the applications installed on the EVS computer: NanoAir MultiReview XFile3 XFlyStreamer Unknown application

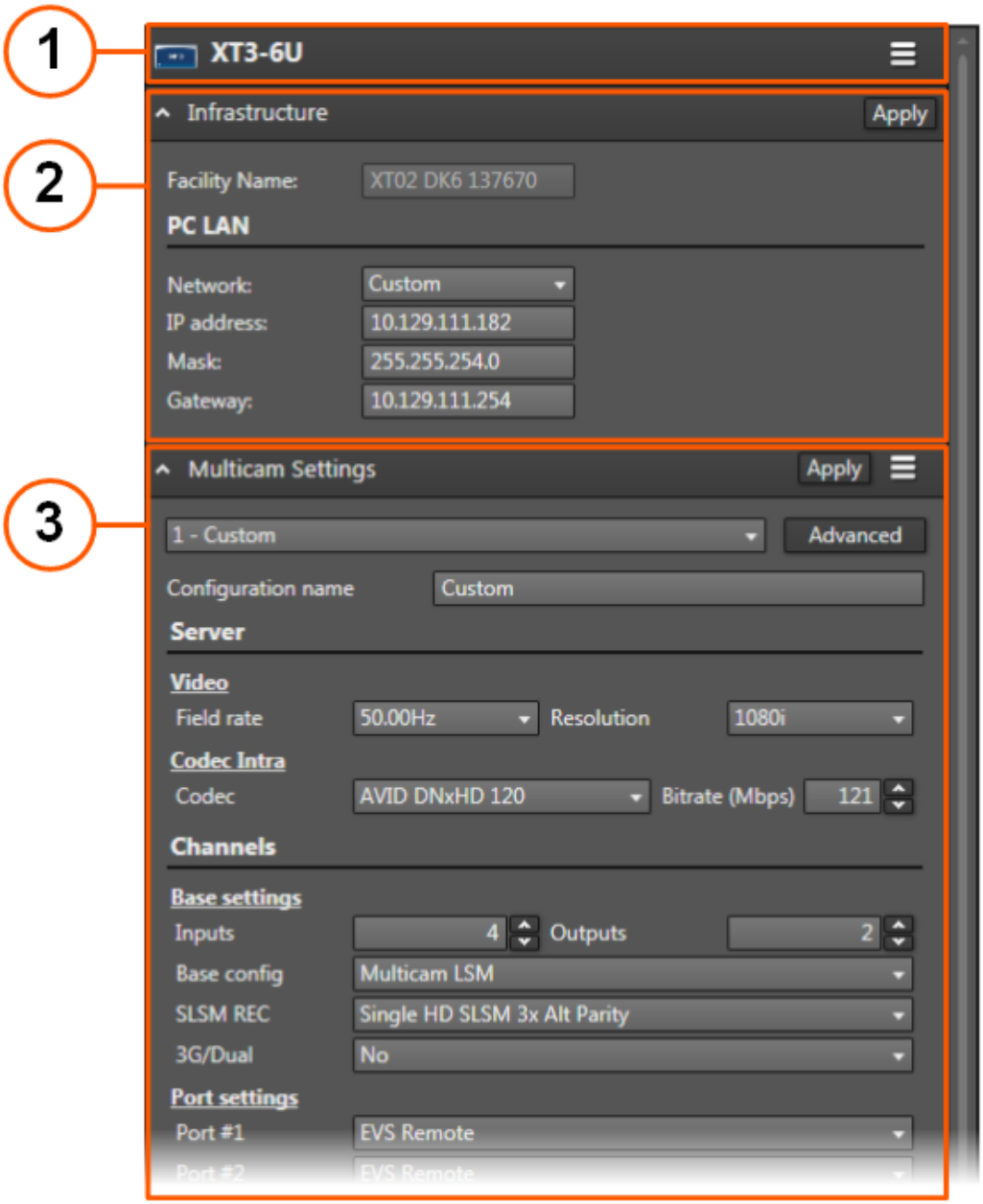
3.1.8. Configuration Area

Introduction

The Configuration area displays the configuration of the device selected in Device area. This includes the infrastructure configuration and the configuration of the various products installed on the device.

Click on one device in the **Device** area to display its configuration in the **Configuration** area.

The following screenshot below shows the various configuration areas of a device (taking a server configuration as an example) in the **Configuration** area.



Area	Name	Description
1.	Title Bar	Area that displays: • the device type • the device menu giving access to operations applicable to both infrastructure and product configurations.
2.	Infrastructure Configuration	Area that allows you to configure the IP addresses and network settings. In this area, you can apply the infrastructure configuration defined in the wizard.

Area	Name	Description
3.	Product Configuration	Area that allows you to configure the product(s) installed on the selected device. Refer to the user manual of the given software product for detailed information on the product-related settings you can configure in this area.

Title Bar (1)

The title bar includes the device menu and a button (only with computer devices):

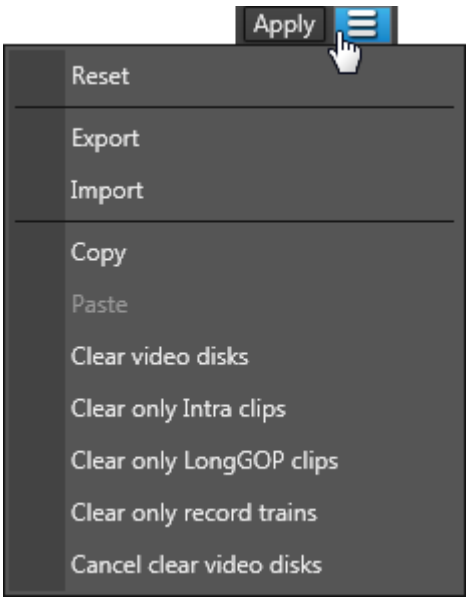
Command	Description
Apply	Applies to the associated online device the configuration (infrastructure and product configuration) defined in the Configuration area.
Reset	Restores the original parameters of the associated online device.
Remote Desktop 	Only available with computer devices. It triggers a remote desktop connection to the computer device.

Infrastructure Configuration Area (2)

The Infrastructure Configuration area includes the following parameters and buttons:

Command	Description
Apply (button)	Applies to the associated online device the settings defined in the Infrastructure Configuration area. The **Apply** button is disabled when at least one error is detected on infrastructure settings of the device. Solve them before applying the infrastructure configuration.
Facility Name	Non-editable field that displays the facility name of the EVS server.
Name	Editable field that displays the name of the computer or tablet.
The following fields are available for PC LAN for EVS servers, and for the TCP/IP port(s) configured on the computer/tablet:	
Network	Drop-down field to select the LAN network to be assigned to this TCP/IP port. Several values may be available: • **Custom** corresponds to the infrastructure settings from the configuration file, or to the infrastructure settings currently defined on the device. • Other field values correspond to the various LAN/VLANs defined in the Truck Manager wizard. When a network is selected, the mask and gateway values are automatically filled in.
IP address	Address of the IP port of the device
Mask	Network mask of the IP port of the device
Gateway	Gateway of the IP port of the device

Product Configuration Area (3)



The settings directly related to the software product(s) are described in the plugin section of the user manual of the relevant software product.

Besides these settings, the Product Configuration area features the following menu and buttons:

Command	Description
Apply (button)	Applies the settings you have defined for the setup to the associated online device.
Reset	Restores the original parameters of the software on the associated online device.
Export	Allows exporting the configuration of the product on the associated device to a configuration file (.cnf file).
Import	Allows importing the configuration of a production from a configuration file (.cnf file) onto the associated device.
Copy	Only with an EVS server device. Allows copying the EVS server configuration in the clipboard.
Paste	Only with an EVS server device. Allows pasting the EVS server configuration from the clipboard onto another EVS server device.
Clear video disks	Only with an EVS server device. Clears the record trains and all clips on the video disks of the EVS server. This commands can be undone as long as you have not rebooted the EVS server.

Command	Description
Clear only Intra clips	Only with an EVS server device. Clears the clips in an Intra essence on the video disks of the EVS server. This commands can be undone as long as you have not rebooted the EVS server.
Clear only LongGOP clips	Only with an EVS server device. Clears the clips in LongGOP essence on the video disks of the EVS server. This commands can be undone as long as you have not rebooted the EVS server.
Clear only record trains	Only with an EVS server device. Clears the record trains on the video disks of the EVS server. This commands can be undone as long as you have not rebooted the EVS server.
Cancel clear video disks	Only with an EVS server device. Undo a previous clear command applied to the EVS server. This option is only possible as long as the EVS server has not been rebooted.

3.2. Working in Online or Offline Mode

Two main workflows can be used with Truck Manager for the production configuration in the Truck Manager.

Configuration in Offline Mode

In offline mode, you prepare your production without having a connection to the physical devices. You configure your setup on offline devices.

In the Truck Manager wizard, you have created your setup by defining unconnected devices, or by taking over a setup definition from an existing configuration file.

In the Truck Manager main window, you first configure the virtual devices (offline devices), and associate them to the physical devices later.

In this case, the configuration steps in the main window are performed in the following sequence:

1. Configuring the Devices

   You configure the infrastructure settings (IP addresses) and the settings of the EVS software product(s) installed on each offline device.

2. Associating Offline Devices to Online Devices

   When you are connected to the network, you associate the devices included in the setup to physical devices available on the network.

3. Checking and Applying the Device Configuration

   You check that the configuration is correct, and apply the device configuration to the physical devices on the network.

Configuration in Online Mode

In online mode, you prepare your production while you are connected to the production site, and to the physical devices you will use in your production (even if some could still be unavailable). You configure your setup on online devices.

In the Truck Manager wizard, you typically detect the physical devices available and select the ones you will use in your production. You can also work on the basis of a recent production, or the production file of a similar setup.

In the Truck Manager main window, you will first associate your devices to make them online (if they are not already online). Then you can configure or finalize your configuration on online devices.

In this case, the configuration steps in the main window are performed in the following sequence:

1. Associating Offline Devices to Online Devices

   The devices are either already online if they have just been detected, or you can associate them directly to physical devices available on the network.

2. Configuring the Devices

   You configure the infrastructure settings (IP addresses) and the settings of the EVS software product(s) installed on the online devices.

3. Checking and Applying the Device Configuration

   You check that the configuration is correct, and apply the device configuration to the physical devices on the network.

Other operations allow you to manage the configuration or parts of the configuration:

- Changing the Truck Configuration
- Renaming a Production Configuration
- Saving a Production Configuration

3.3. Managing Configurations

3.3.1. Changing the Truck Configuration

Introduction

When you work in the Truck Manager main window, you configure the devices selected or defined in the wizard.

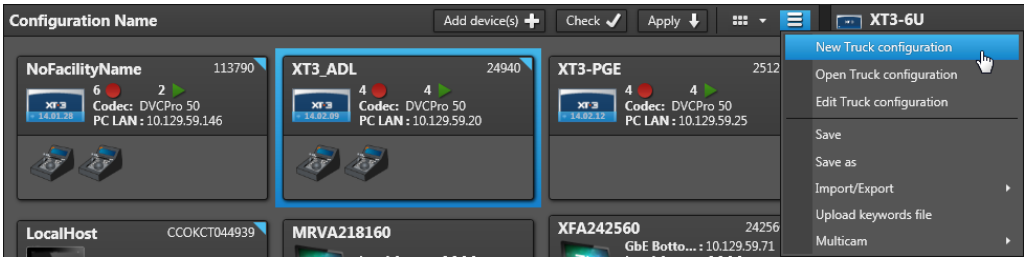
At any time, you can edit this initial truck configuration, open another truck configuration, or create a new truck configuration as described in this section.

How to Create a New Truck Configuration

Creating a new Truck Configuration consists in composing a new setup in the Truck Manager wizard and applying this new setup to the Truck Manager main window.

To create a new truck configuration, proceed as follows:

1. In the Truck Manager main window, in the toolbar of the Device area, click  and select the **New Truck configuration** menu item.



2. In the Truck Manager wizard, proceed to all steps as described in section "Truck Configuration" on page 11.
3. Click Finish in the wizard.

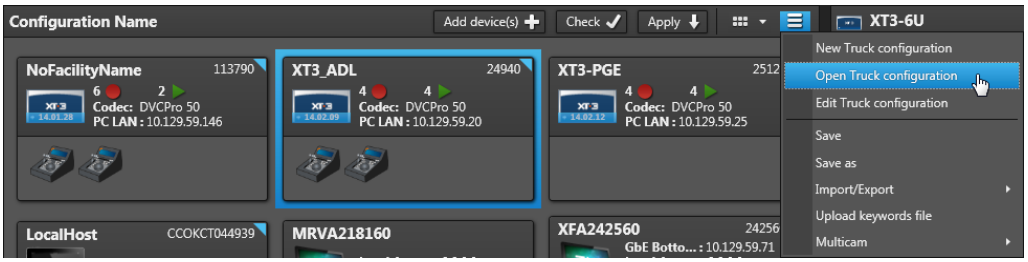
The new truck configuration opens in the Truck Manager main window.

How to Open Another Truck Configuration

Opening a truck configuration consists in opening an existing configuration file and applying it to Truck Manager main window.

To open a truck configuration file, proceed as follows:

1. In the Truck Manager main window, in the toolbar of the Device area, click  and select the **Open Truck configuration** menu item.



2. Select the configuration file you want to load and click **Open** in the Open File window.

   The Load Infrastructure Settings window displays.

3. In this window, select whether you want to load infrastructure settings or not:
   - Click **Yes**: the infrastructure settings from the configuration file are loaded to Truck Manager.
   - Click **No**: the infrastructure settings from the configuration file are discarded, and the infrastructure settings currently defined on the device remain in Truck Manager.

The truck configuration opens in the Truck Manager main window.

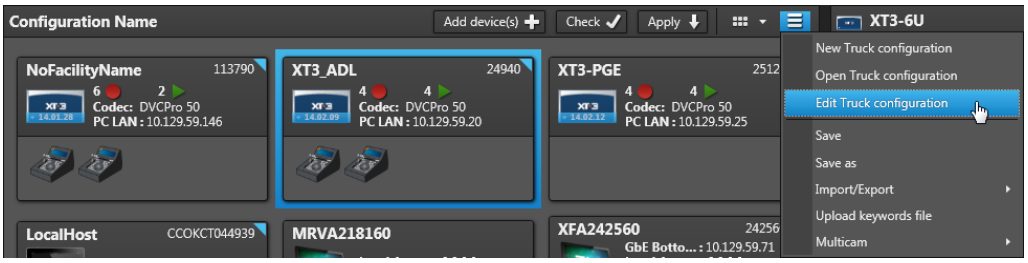
How to Edit the Truck Configuration

Editing a truck configuration consists in editing the truck configuration currently open in Truck Manager.

Note
If you only want to add a new device to your setup, click directly the **Add device (s)** button in the toolbar.

To edit the truck configuration, proceed as follows:

1. In the Truck Manager main window, in the toolbar of the Device area, click  and select the **Edit Truck configuration** menu item.



   This menu opens a window with a simplified version of the wizard which does not include the Summary tab.

2. Set up the configuration in the wizard.

   You can switch tabs by clicking the requested tab in the wizard.

   See section "Truck Configuration" on page 11.

3. Click  when you are satisfied with the current configuration.

The devices are updated in the main window, and the infrastructure and the network settings of the EVS servers have been reloaded from the wizard into the main window.

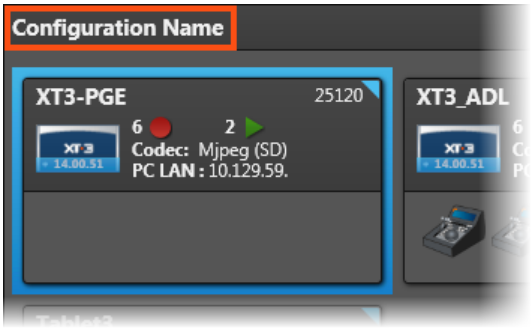
Other settings which may have been defined earlier are preserved in the main window.

Note
To come back to the main window without taking into account the actions in the wizard, click Cancel.

3.3.2. Renaming a Production Configuration

Introduction

When you create a production configuration, it has the default name **Configuration Name**. The configuration name is displayed on the top left of the Device area. The configuration name is used as the default name for the configuration file you save the production configuration into.



How to Change the Configuration Name

1. In the Truck Manager main window, click the configuration name.

   The field appears in a blue box and can be edited.

2. Type the requested name for your configuration and press **ENTER**.

The configuration is renamed.

3.3.3. Saving a Production Configuration

Introduction

When you configure your devices in the main window, you can save the production configuration (i.e the setup definition, and all infrastructure and device parameters) into a configuration file (.tm file):

- To save your production configuration for the first time, or under a new file name, use the **Save As** option.

  You will be asked to specify the name of the configuration file. By default, the name of the configuration file is the configuration name specified at the top of the Device area.

- To save your production configuration subsequently, use the **Save** option.

  The configuration changes are automatically saved in the configuration file to which you have last saved your changes.

If you have not saved the production configuration when you close Truck Manager, you will be prompted to save your changes to a configuration file. This action corresponds to a **Save As** action.

How to Save the Configuration into a New Configuration File

You will use the **Save As** action to save your configuration for the first time to a configuration file, or to save it under a new configuration file.

To save the configuration into a new configuration file, proceed as follows:

1. In the Truck Manager main window, in the toolbar of the Device area, click  and select the **Save As** menu item.

   The Truck Manager Save Configuration window opens.

2. If requested, type a new name for the configuration file. By default, the configuration file inherits the configuration name.
3. If requested, change the folder where you want to store the file.
4. Click **Save**.

   A message confirms that the configuration has been successfully exported to the configuration file.

5. Click **OK** to close the confirmation message.

The configuration is saved to the configuration file with the requested name in the requested folder.

How to Save the Configuration into an Existing Configuration File

You will use the **Save** action for subsequent save actions, after you have already saved the configuration a first time in a configuration file.

Note
If you use the **Save** option whereas the production configuration has not previously been saved to a configuration file, you will be prompted to name the configuration file, and specify its folder, as with a **Save As** action.

To save the configuration to an existing configuration file, proceed as follows:

1. In the Truck Manager main window, in the toolbar of the Device area, click  and select the **Save** menu item.

   A message confirms that the configuration has been successfully exported to the configuration file.
2. Click **OK** to close the confirmation message.

The configuration is saved to the existing configuration file.

3.3.4. Importing and Exporting a Production Configuration to a CSV File

Introduction

When you have defined your production configuration and put it online, you can export the online configuration to an Excel (.CSV file). You can add additional information to the exported content and generate a report on this basis.

You can also prepare the production configuration in offline mode, and export it to publish the configuration to other people who will be able to import it and put it online on their setup.

The truck configuration performed in the wizard, as well as the facility names and the infrastructure configuration of IP addresses will be included in the CSV file.

How to Export a Production Configuration to a .CSV File

1. In the Truck Manager main window, in the toolbar of the Device area, click  and select the menu item **Import/Export > Export configuration to CSV**.

   A Truck Manager Save Configuration window opens.
2. Point to the folder where you want to store the file. By default, it will be stored on your desktop.
3. Type the file name you want to give to the CSV file.

4. Click **Save**.

   A confirmation message appears telling you that the configuration has been exported.

5. Click **OK** in the configuration message.

How to Import a Production Configuration File

1. In the Truck Manager main window, in the toolbar of the Device area, click  and select the menu item **Import/Export > Import configuration from CSV**.

   A Truck Manager Save Configuration window opens.

2. Point to the CSV file including the configuration you want to import to Truck Manager and click **Open**.

The Truck Manager wizard opens with all devices defined in the CSV file.

You can then check the truck configuration in the wizard, possibly add new devices, and then proceed to the production configuration in the main window.

3.4. Associating Devices

Introduction

When devices are still offline (not assigned) in the Truck Manager main window and their corresponding physical devices are plugged into the network, you can associate the offline devices to their corresponding physical devices in the main window. They will become online.

In the following cases, you do not need to associate the devices as they will directly appear as online devices in the Truck Manager main window:

- The devices have previously been identified on the network and selected in the wizard just before the production configuration opens in the main window.
- You have started the Truck Manager with the Quick Start option. In this case, only devices already identified on the network, hence online, are displayed.

In other cases, the devices appear as offline.

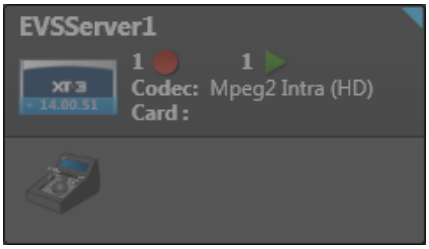
You can associate offline devices to physical devices in one of the following ways:

- How to Associate Devices Automatically
- How to Associate Devices Manually
- How to Associate a Single Device

Prerequisite

To be able to associate an offline device, this device must have been added in the Truck Manager wizard.

The offline devices are displayed on a dimmed background in Truck Manager main window, in the Device area:



How to Associate Devices Automatically

The Auto-Assign option, available in the toolbar of the main window, allows you to associate offline devices automatically in one go. The automatic assignment is performed based on the last saved serial number.

The Auto-Assign option is only available in the following cases:

- Opening a Recent Production
- Opening a Production from a Configuration File

When you open a recent production or a production from its configuration file, all devices in Truck Manager are in offline mode.

Note
If you add offline devices after opening an existing configuration via its configuration file, only the devices whose serial number is already stored in the configuration file can be recognized and associated.

How to Associate Devices Manually

The **Associate** option Assign, available in the toolbar of the main window, allows you to associate all devices manually in a single window. This option appears only if at least one offline device is still displayed in the main window.

To associate all devices manually, proceed as follows:

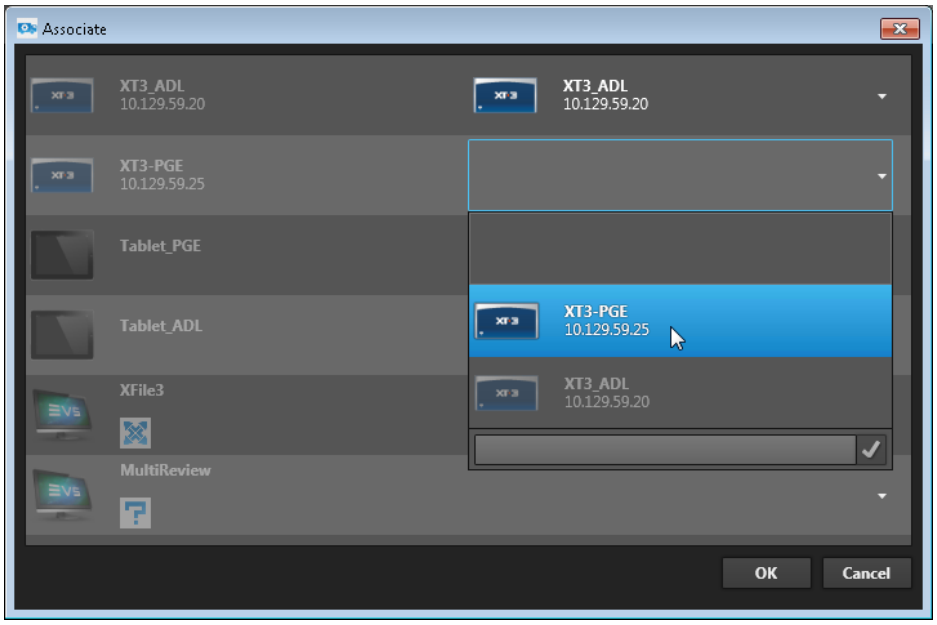
1. Click Assign in the toolbar of the main window.

   The Associate window opens with the offline devices on the left, and the suggested corresponding online devices on the right, when available.

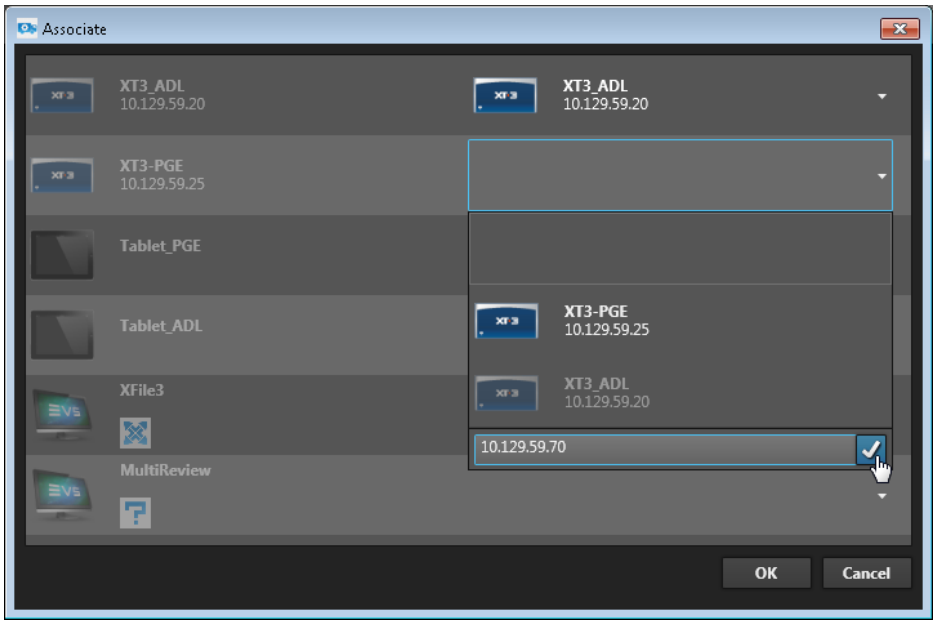
2. To change or define the device to be associated to an offline device, click the Arrow sign on the line of the offline device and do one of the following actions:

- If the device you want to associate is in the drop-down list, click the device.

  Already associated devices are dimmed in the list.



- If the device you want to associate is not in the same LAN/VLAN as the Truck Manager, hence not in the list, type its IP Addess and click  .



  If you select a device already associated to another device in the window, the new association will replace the previous one and the previous associated offline device will be associated to an empty item.

  At this step, you can still update the association.

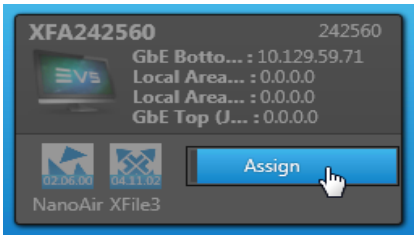
3. When you have associated all requested devices, click **OK** to effectively apply the associations.

The devices are then associated, and the device boxes are no longer dimmed.

How to Associate a Single Device

To associate an offline device to a physical device, proceed as follows:

1. In the Truck Manager main window, Device area, right-click the offline device you want to associate to a physical device and select **Associate** from the contextual menu:



   The **Discovered Devices** dialog box opens.

2. In the **Discovered Devices** dialog box, do one of the following actions:
   - If the device is in the same VLAN as the Truck Manager, it is displayed in the list of discovered devices: Click the device and click **OK**.

- If the device is not in the same VLAN as the Truck Manager, it is not displayed in the list: Type its IP Address in the **IP Address** field and click **OK**

The device box is no longer dimmed, and the device has been associated to the specified physical device.

Result of an Association

When an offline device is associated to a physical device:

- The configuration of the offline device is applied to the associated device.
- The product version of the physical device is applied to the associated device.

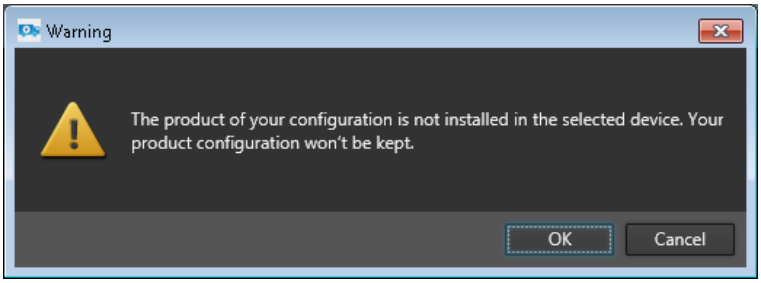
When you associate offline devices, the product configuration will not be kept if the product configured is not installed on the selected device:

For example:

- The offline device includes **XFile3** and **MultiReview** products.
- The physical device has only **XFile3** installed.

MultiReview will not be kept in the associated device.

The following message will be displayed when you associate the device:



3.5. Configuring Devices

3.5.1. Overview

In Truck Manager, configuring a device consists in defining the parameters to be applied to the physical device as regards:

- the infrastructure (device name and network parameters)

  See section "Configuring Infrastructure Parameters of a Device" on page 56.

- the product installed on the devices (product operational parameters)

  See section "Configuring Product Parameters of a Device" on page 58.

In the Truck Manager main window, the parameters of the device selected in the Device area (left pane) are displayed in the Configuration area (right pane).

See section "Configuration Area" on page 39 for detailed information on the fields in the Configuration area.

In Truck Manager, you can perform advanced configuration actions, mainly on EVS servers.

See section "Advanced Configuration" on page 62 for more information on advanced configuration actions.

3.5.2. Configuring Infrastructure Parameters of a Device

Custom and Predefined Infrastructure Parameters

In the Infrastructure section, you mainly set the IP parameters of the various TCP/IP ports you will use on the device.

- If you configure infrastructure parameters specific to the device, they will be associated to the **Network** named **Custom**.

  Whether you have imported the infrastructure settings from a configuration file, or you use the infrastructure settings currently defined on the device, they are stored under **Custom**.

- If you want to apply parameters of a LAN/VLAN previously defined in the wizard, these settings are accessible via the **Network** field, by selecting the LAN/VLAN name you have defined.

How to Configure the Infrastructure Parameters

To configure the infrastructure parameters, proceed as follows:

Note
You can configure the infrastructure settings of EVS devices even if they do not host an application manageable with Truck Manager.
Such EVS devices will however only appear in the Truck Manager wizard, and therefore be selectable, if the Truck Manager discovery service (DiscoverClient.msi) has been installed on the given EVS devices.

1. In the main window, select the box or record of the requested device in the Device area.

   The settings of the selected device appear in the Configuration area.

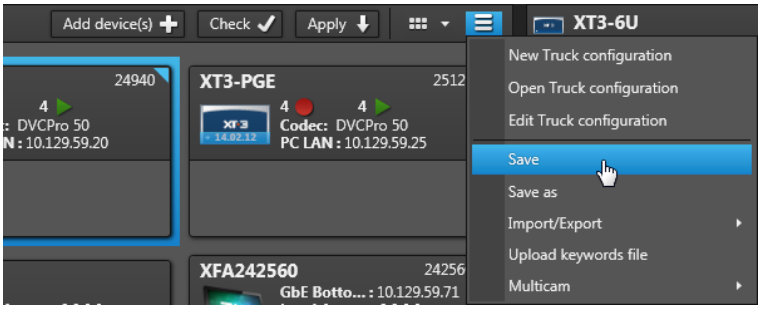
2. If requested, you can type a name for the device in the **Name** field

   You cannot edit the Facility Name of an EVS server.

3. For each TCP/IP port of the device, select the network parameters in one of the following ways:
   - If you want to use one of the LAN/VLAN settings defined in the wizard, select the LAN/VLAN name in the **Network** field, and fill in the **IP address** field.
   - If you want the device to use custom parameters, select **Custom** in the **Network** field, and fill in or edit the **IP address**, **Mask** and/or **Gateway**.

4. Repeat this action for each relevant IP port of the device.

5. To save the configuration, click  in the toolbar of the Device area and select **Save** from the contextual menu:



See section "Saving a Production Configuration" on page 49 for more information about save options.

3.5.3. Configuring Product Parameters of a Device

Principles

The product parameters come from the product plugins automatically installed in the following folder `C:\Program Files (x86)\EVS Broadcast Equipment\Truck Manager\Plugins` when a device with a given plugin communicates with the Truck Manager for the first time.

- Several products can be installed on a computer. Therefore several plugins can be linked to a computer.
- Only one product can be installed on a tablet, Mini PC or an EVS server. A single plugin can be linked to such devices.

Configuration Methods

To configure an EVS product in Truck Manager, you can use several methods depending on the device type, and on the possibility to reuse the product configuration on several devices.

Device type?	Reusing configuration?	See section ...
Any (computer, Mini PC, tablet, EVS server)	No: different product configuration on different devices	"How to Configure the Product Parameters of a Device"
Any (computer, tablet, Mini PC, EVS server)	Yes: similar product configuration on different devices	"How to Reuse a Product Configuration For Other Devices"
EVS server	Yes: similar configuration on different EVS servers	"How to Copy/Paste Parameters from an EVS Server to Another"

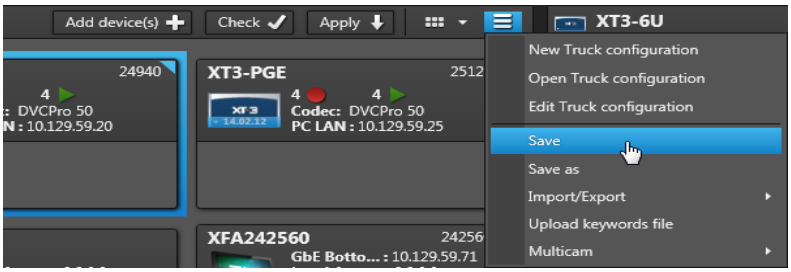
How to Configure the Product Parameters of a Device

1. In the main window, select the box or record of the requested device in the Device area.

   The settings of the selected device appear in the Configuration area.

2. In the Product Configuration area, edit the requested fields for the requested product.

3. To save the configuration, click  in the toolbar of the Device area and select **Save** from the contextual menu:



   See section "Saving a Production Configuration" on page 49 for more information about save options.

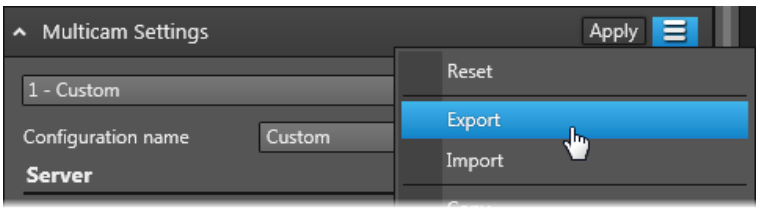
How to Reuse a Product Configuration For Other Devices

To reuse a product configuration from one device to the other, you can export it from one device and import it to the other device where it has to be reused.

1. In the Truck Manager main window, in the Device area, select the device from which you want to export the product parameters.

   The Device parameters appear in the Configuration area.

2. In the Configuration area, click  in the section corresponding to the product whose parameters you want to export and select **Export** from the contextual menu:



   A Save as window opens.

3. In the Save as window, do the following actions:

   a. Select the requested destination on the local computer.

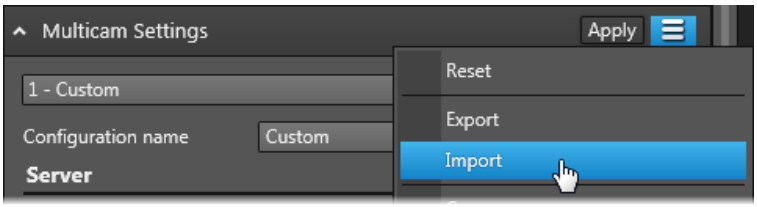
   b. Type a configuration name (if you do not want to use the default one).

   c. Click **Save**.

4. In the Truck Manager main window, in the Device area, select the device to which you want to import the product parameters.

   The Device parameters appear in the Configuration area.

5. In the Configuration area, click  in the section corresponding to the product to which you want to import the configuration and select **Import** from the contextual menu:



6. Select the configuration file (.cnf file) you want to import.
7. Click **Open** to import the product configuration.

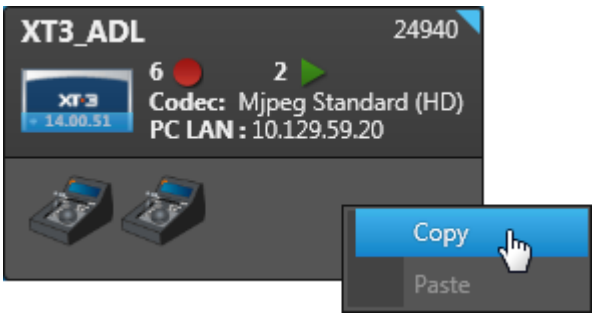
How to Copy/Paste Parameters from an EVS Server to Another

Truck Manager allows you to copy Multicam parameters from one EVS server configuration to another.

The parameters can be copied by blocks corresponding to the various configuration pages in the Multicam configuration module: Server, Channels, Network, Monitoring, Protocol, GPI and Operation.

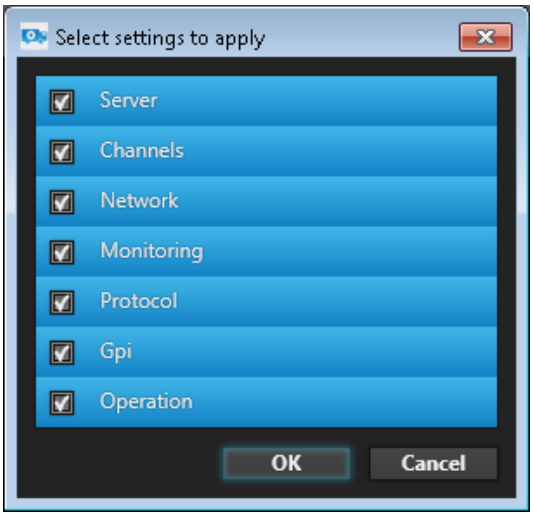
Note
Truck Manager will adopt the latest Plugin Feature version in case of conflicts between copied device and pasted device.

1. In the Device area, right-click on the server whose parameters you want to copy and select **Copy** from the contextual menu:



2. In the Device area, right-click the server you want to paste parameters to and click **Paste** from the contextual menu.

   The **Select settings to apply** dialog box opens.
3. Select the parameter groups to be pasted by selecting the corresponding check boxes. By default, all items are selected.



4. Click OK to validate this operation and close the window.

The copied parameters are automatically updated in the EVS server configuration in Truck Manager.

3.5.4. Resetting the Configuration

Introduction

You can reset the configuration at two levels:

- at device level
- at product level

How to Reset the Device Configuration

To reset the device configuration (infrastructure and product configuration) to the initial parameters, proceed as follows:

- Click on the menu at the top of the Configuration area and select **Reset** from the contextual menu:

How to Reset a Product Configuration

To reset the product configuration, proceed as follows:

1. Make sure the device is online. See section "Associating Devices" on page 51.
2. Click the menu corresponding to a given product and select **Reset** from the contextual menu:

3.6. Advanced Configuration

3.6.1. Overview

In addition to the standard functions to configure a device, the following functions are available to refine the configuration of a computer or an EVS Server:

Advanced Configuration of Computers

- See section "Connecting Remotely to a Computer" on page 62

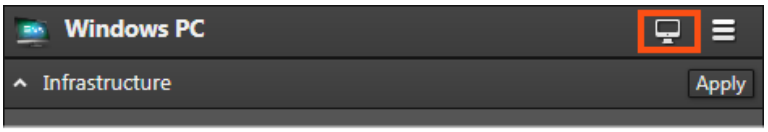
Advanced Configuration of EVS Servers

- See section "Changing the Multicam Configuration Line" on page 62
- See section "Opening Multicam Configuration in Advanced Mode" on page 63
- See section "Clearing Content on EVS Servers" on page 64
- See section "Uploading a Keyword File to an EVS Server" on page 66

3.6.2. Connecting Remotely to a Computer

Connecting to a computer via Remote Desktop may allow you to perform advanced configuration of the products installed on this computer.

- To connect remotely to an online device, click the **Remote Desktop** icon located in the title bar of the Configuration area:

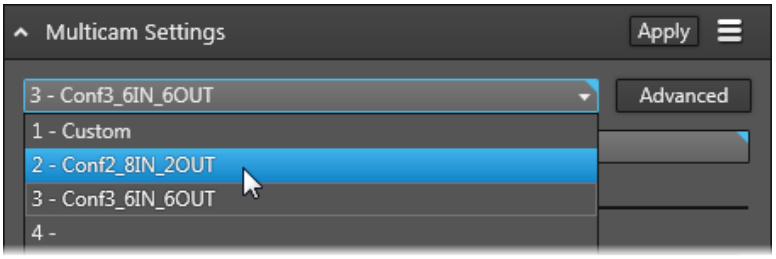


3.6.3. Changing the Multicam Configuration Line

If the EVS server device is online, you can modify the Multicam configuration line you are configuring in the Truck Manager. You will lose the configuration you might have performed on another configuration line before.

1. Make sure the EVS server for which you want to configure another configuration line is online. See section "Associating Devices" on page 51.
2. In the Device area, right-click the EVS server.

3. In the Configuration area, at the top of the Product area, select the configuration line you want to work with in the drop-down field:



A warning message informs you will lose the configuration defined on the currently selected configuration line.

4. Click **Yes**.

The settings currently defined in the selected configuration line of the EVS server are now displayed in Truck Manager, and you can modify them and apply them to the EVS server.

3.6.4. Opening Multicam Configuration in Advanced Mode

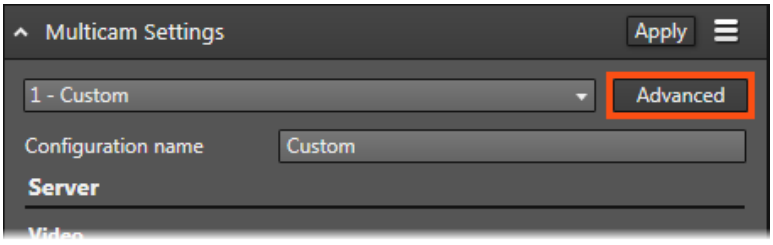
You can open the Multicam Configuration module in advanced mode in Truck Manager. This allows you to edit any specific parameter directly from Truck Manager.

To open the Multicam Configuration module in advanced mode for an EVS server, proceed as follows:

1. Make sure the EVS server you want to configure in advanced mode is online. See section "Associating Devices" on page 51.
2. In the Device area, select this server.

   The Multicam settings are diplayed in the Configuration area, Product area on the right.
3. If requested, change the configuration line you want to configure.

   See section "Opening Multicam Configuration in Advanced Mode" on page 63
4. Click the **Advanced** button at the top of the Multicam plugin:



The Multicam Configuration module opens in the Product area, instead of the Multicam plugin.

3.6.5. Clearing Content on EVS Servers

Introduction

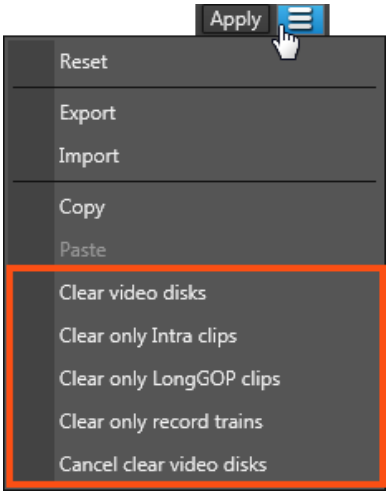
When you set up a production with EVS servers which were using different configurations, it is recommended to clear the EVS server content (record trains, Intra or LongGOP clips or all).

In Truck Manager, you can clear the content on:

- a single EVS server of your setup at a time.
- all EVS servers of your setup at once.

How to Clear the Content on a Single EVS Server

1. In the main window, Device area, select the EVS server you want to clear content from.
2. In the toolbar, select the menu icon and select the requested clear option among the ones highlighted in the menu:



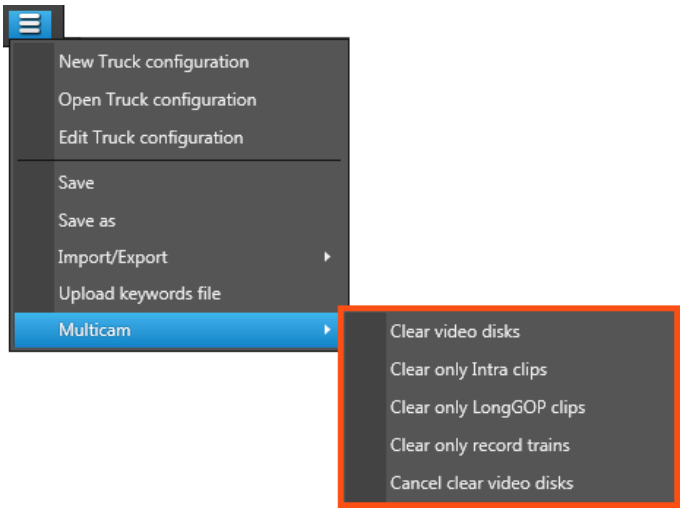
   A warning message asks you to confirm the clear action and informs you that the clear action will be performed when you will restart the EVS server.

3. Click **OK**.

Note
As long as the EVS servers have not been restarted, you can cancel a clear command via the **Cancel clear video disks** option of the contextual menu.

How to Clear the Content on All EVS Servers

1. In the Device area, select the menu icon  in the toolbar and select the requested clear option among the ones highlighted in the menu:



   A warning message asks you to confirm the clear action and informs you that the clear action will be performed when you will restart the EVS servers.

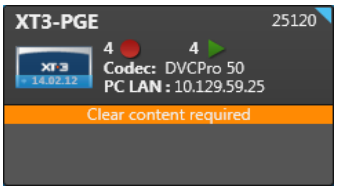
2. Click **OK**.

> **Note**
> As long as the EVS servers have not been restarted, you can cancel a clear command via the **Cancel clear video disks** option of the contextual menu.

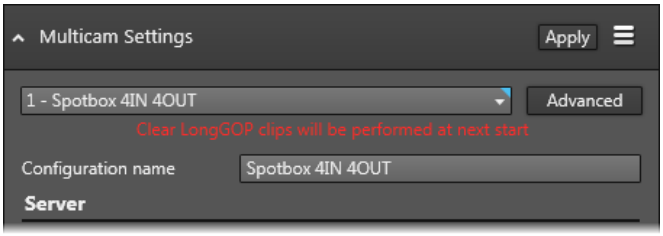
Result of a Clear Action

The following information is displayed in Truck Manager:

- A message is displayed on an orange background in the box(es) of the impacted EVS server(s).



- A message similar to the following one is displayed in red in the Product area of the impacted EVS server(s).

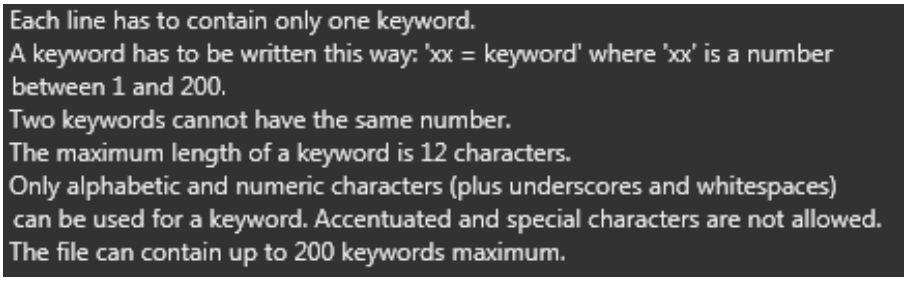


3.6.6. Uploading a Keyword File to an EVS Server

Prerequisites

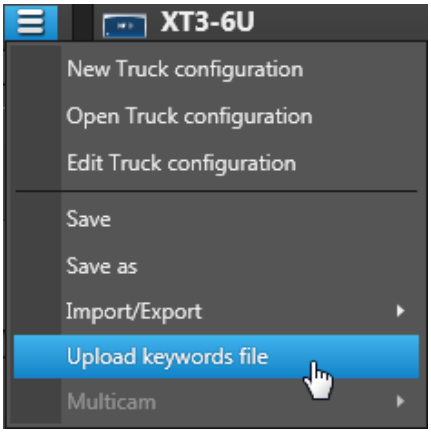
From Truck Manager, you can upload a keyword file to all online EVS servers of your setup.

The keyword file must fulfill the usual requirements of a Multicam keyword file. Otherwise, an error message will appear to remind you the rules to be complied with:



How to Upload a Keyword File to an EVS Server

1. Make sure the EVS servers you want to upload the keywords file to are online.
2. In the Truck Manager main window, in the toolbar of the Device area, click  and select the menu item **Upload keywords file> Upload keywords file**.

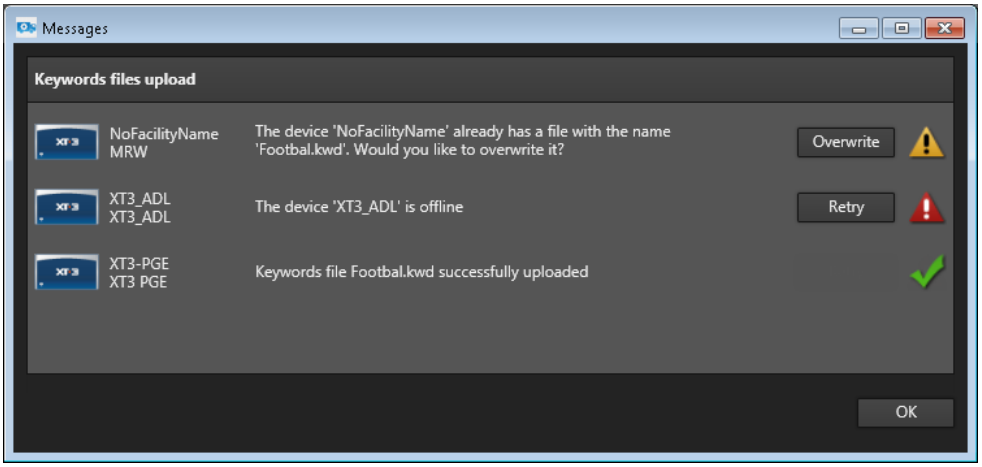


The Keywords window opens.

3. In the Keywords window, select the keyword file (KWD file) you want to upload to the online EVS servers and click **Open**.

   Truck Manager directly tries to upload the selected keywords file.

   Subsequently, a Messages window similar to the following one displays the upload results:



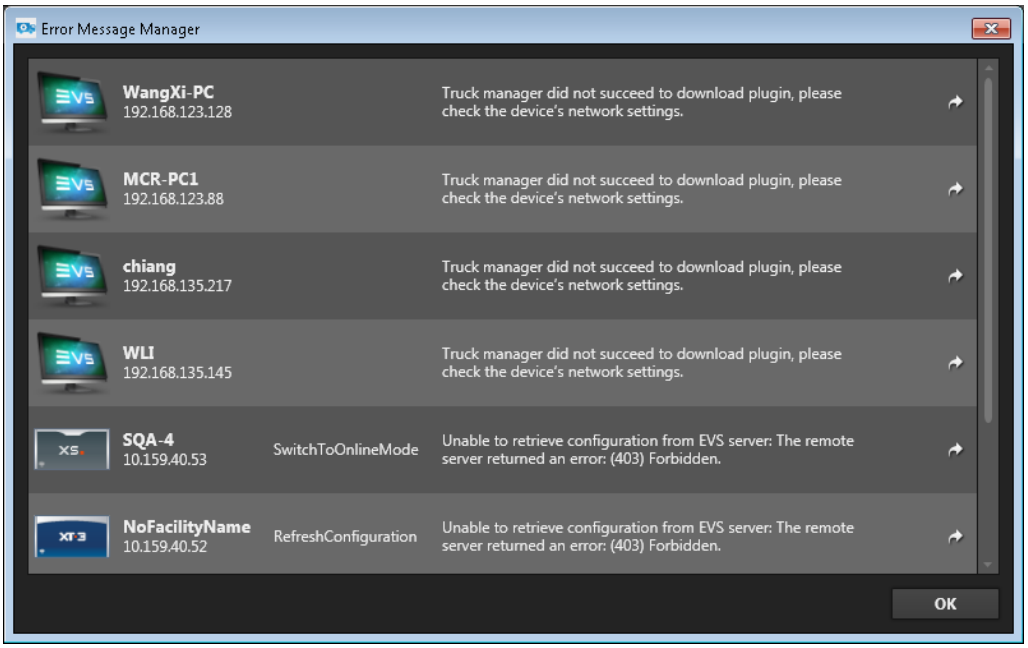
4. In the Messages window, you can perform the following actions if the upload did not succeed:
   - If a keywords file with the same name is already present on the EVS server, you can click the **Overwrite** button to overwrite the existing keywords file.
   - If the upload could not be done for a any technical reason (offline device, connection loss), click the **Retry** button to try uploading the file again.

3.7. Checking the Configuration

Automatic Check

During the device configuration in Truck Manager, some checks are performed in the background.

At several moments in the configuration process, the Error Message Manager window pops up with error messages related to changes not supported with the current device configuration.



The Error Message Manager window gathers the errors from the devices.

The window may pop up after the following actions:

- After you have gone through the wizard and when the Truck Manager main window opens;
- After an editing action in the production configuration;
- After assigning several offline devices to the online devices.

Manual Check

At any other moment in the configuration process, you can open a similar window, called Configuration Check window, and check whether some configuration parameter values are not supported.

You need to perform such a check before applying the production configuration to the physical devices.

Opening the Faulty Device Configuration

Click  next to the error you want to solve to open the configuration of the faulty device.

When an error is solved, the corresponding message disappears from the window.

3.8. Applying the Configuration

Introduction

You can apply the configuration to the associated physical device(s) once you have:

- made your device(s) online (i.e. associated the offline devices to physical devices),
- configured the device(s), and
- checked the production or device configuration.

You can apply the configuration at different levels:

- Applying the configuration to all online devices of the production
- Applying the configuration to a single device
- Applying the configuration to the infrastructure settings of a device
- Applying the configuration to a product on a device

Note
The general **Apply** button in the toolbar or the one linked to the Infrastructure settings are disabled when at least one error is detected on infrastructure settings.
To be able to solve the issues, click the **Check** button in the toolbar to easily identify the errors, or point to the red triangles in the device boxes or records to display the error messages linked to individual devices.

How to Apply a Configuration to All Online Devices

1. Click the **Apply** button in the Device area:

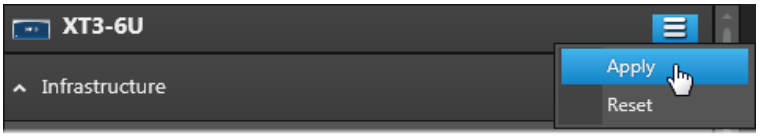
   The Apply Configuration window displays.

2. In the Apply Configuration window, click **Run** to effectively apply the production configuration.

During the process, progress bars allows you to check the progress for each device and for the whole production.

How to Apply a Configuration to a Single Device

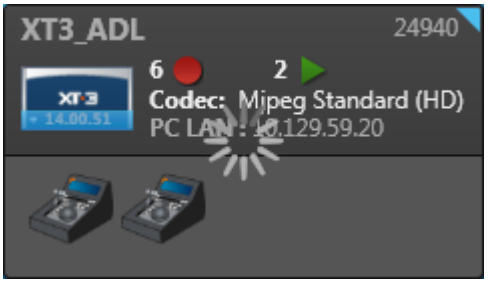
1. Select the **Apply** command from the Device menu in the Configuration area:



   A message informs you that infrastructure changes require the remote device to be restarted.

2. Click **OK** to confirm the action.

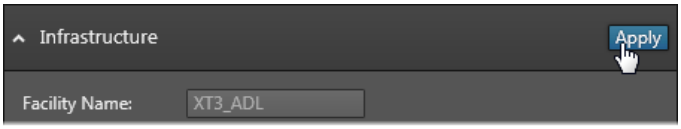
Pop-up messages are displayed on the Configuration area to inform you about the progress. The busy icon on the device box appear in the Device area:



When the messages and busy icon disappear, the device and the application are restarted.

How to Apply a Configuration to the Infrastructure Settings of a Device

1. Click the **Apply** button in the Infrastructure area in the Configuration area:



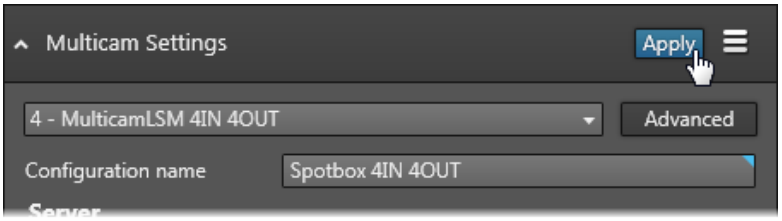
   A message informs you that infrastructure changes require the remote device to be restarted.

2. Click **OK** to confirm the action.

The infrastructure settings are applied. No confirmation message is displayed.

How to Apply a Configuration to a Product on a Device

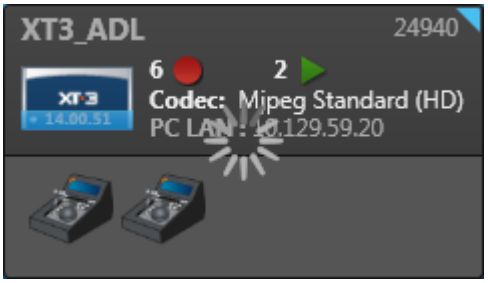
1. Click the **Apply** button in the requested Product area in the Configuration area:



   A message informs you that changes in product settings require an application restart.

2. Click **OK** to confirm the action.

Pop-up messages are displayed on the Configuration area to inform you about the progress. The busy icon on the device box appear in the Device area:



When the messages and the busy icon disappear, the device and the application are restarted.

Glossary

C

connected device
device which is already available and connected to the setup in the Truck Manager wizard.

D

device configuration
configuration actions performed in the Truck Manager main application.

O

offline device
EVS device which is not associated to a physical device in the Truck Manager main application

online device
EVS device which is associated to a physical device in the Truck Manager main application

P

production
creation and organization of media content (audio and video) for distribution and broadcasting purposes. In the Truck Manager application, the term is used to refer to all hardware material and software programs used to generate a production.

production configuration
entire configuration for a production. This includes the truck configuration performed in the Truck Manager wizard, as well as the device configuration performed in the Truck Manager main window.

S

setup
set of EVS hardware material (EVS servers, computers, tablets) involved in a production and configured with Truck Manager

T

truck configuration
configuration actions performed in the Truck Manager wizard

Truck Manager main window
first window that opens in Truck Manager when you have processed through the wizard or when you open an existing production.

Truck Manager wizard

wizard the user has to go through to select or/and define hardware devices, as well as general settings to be used in a new production configured in Truck Manager.

U

unconnected device

device which is not yet connected to the setup when it is defined in the Truck Manager wizard.

Corporate
+32 4 361 7000

North & Latin America
+1 973 575 7811

EVS Headquarters
Liège Science Park
13, rue Bois St Jean
B-4102 Seraing
Belgium

Asia & Pacific
+852 2914 2501

Other regional offices
www.evs.com/contact

To learn more about EVS go to **www.evs.com**