# User Guide

# AutoCode XProtect

General version:

2.8.10

## Module's version:

xp.viewer-1.4.2.15



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# 1 INTRODUCTION

AutoCode XProtect (VIT) is a group of software modules for XProtect video management systems (Milestone Systems). The main purpose of AutoCode XProtect is to add video analysis functionality (namely, license plate recognition) to either a projected version of CCTV system or an already existing one.

License plates recognition is carried out using video, provided by video sources of **XProtect** system. Recognition results, along with all associated information, are sent back to **XProtect** system.

Detailed description of recognition sub-system (installation, licensing, configuration, displaying results in **XPro-tect Smart Client**) may be found in **AutoCode XProtect Administrator's Guide**.

This user guide contains instructions for client section of AutoCode XProtect — Viewer module. It's designed to add license plate protocol functionality to XProtect Smart Client application.

This user guide is designed for **XProtect** users operating client application. It is assumed that users have worked with **XProtect Smart Client**. Therefore, this user guide is limited to instructions for the **Viewer** module and its interface.

Legend:

Important

Additional information or example

# 2 WORKING WITH EVENTS

Event is a message generated after specific actions in the system.

Events are used for:

- exchanging information between XProtect components and third-party applications/devices;
- creating system reactions to be triggered as a response to events.

The main criteria for events classification in **XProtect** is source. In its relation to the system, an event may be:

- external (e.g. when motion sensors are triggered or the data is received from external applications);
- internal (e.g. after specific actions from the user).

External events group includes analytics events. Analytics events are messages generated by additional software products integrated into **XProtect** for video processing. **AutoCode XProtect** recognition sub-system is one of such products.

**XProtect** system often uses alarms as reaction to events.

Alarms may be generated based on:

- external events (including analytics events).
- system (internal) events such as 'Archive failure', 'Running out of disk space', 'Motion detected' or 'Server not responding'.

Reactions to events (including alarms) are set using rules. A rule is a set of system actions to be performed under specific conditions (e.g. start recording from Camera 1 if motion is detected in frame).

Alarm triggers cannot be configured in **XProtect Smart Client**. They are configured by the administrator during surveillance system configuration.

When **Viewer** module is used, based on the configuration, its graphic interface (license plate protocol) may display:

- all analytics events within **XProtect** (except service events) including events sent by LPR sub-system.
- all alarms within **XProtect** (including alarms generated by recognition events).

More details on working with alarms (investigation, processing, filtering, etc.) may be found in **XProtect Smart Client User Guide**.

#### 2.1 monitoring events

In **XProtect Smart Client**, recognition events are displayed on **Live** and **Playback** tabs. Information about recognized license plates is displayed as a table (Fig. 1), in which each line may correspond to a specific **AutoCode XProtect** event:

#### 1. Plate detected

The best possible recognition result is received.

#### 2. Car detected

The first recognition result registering a vehicle entered the frame is received.

#### 3. Car lost

License plate left the recognition zone.

#### 4. Plate corrected

Recognized license plate was manually edited in XProtect Smart Client.

#### 5. Plate added

An event with the following information was created manually in **XProtect Smart Client**:

- license plate;
- event source.

#### 6. **PASS**

Registering a vehicle entering/exiting the parking zone.

#### 7. DOWNTIME

Calculating the time vehicle spent on the parking. Event contains the name of the parking zone, entrance/exit time and time spent in it.

#### 8. vitml.error.acs.pass\_flap

Error message. The time spent on parking is *less than* the specified minimum time (a duplicate recognition event is possible).

#### 9. vitml.error.acs.port\_incorrect

Error message. Registering a vehicle entering the zone that was not specified in property list settings.

#### 10. vitml.error.acs.lost\_inpass

Error message. A vehicle with the license plate that was not registered when entering the parking zone is exiting the parking.

#### 11. vitml.error.acs.lost\_outpass

Error message. The maximum allowed time on parking is exceeded (entrance registered, exit not registered).

#### 12. [List name] result

Recognized license plate found in [list name] list.

#### 13. [List name] no result

Recognized license plate not found in [list name] list.

#### 14. Unlisted license plate

Recognized license plate not found in all associated lists.

Events to be displayed in the license plate protocol of a specific **XProtect Smart Client** depend on surveillance system configuration selected by the administrator.

Milestone XProtect Smart Client 20	14						4/19/2016	12:19:10 PM 🗕 🛙	⊐ ×
Live Playback Seq	uence Explore	er Alarm Manager						<b>-</b> + 6	) 🌣 📍
XProtect	<	< Select view >	•	5				Setup	$\boxtimes$
Views	^	✓ AutoUpdate	< 1-30 >				Create	Export	Filter 🗸
Search views and cameras	Q 🔊	🚗 Timestamp	Message	Source Name	Tag	Localld	Object Value	Vendor Name	P
	<u> </u>	12:18:59 19/4/2016	Car lost	Camera 1		3707	VDG872	"Video Internet T	ec
Private		12:18:59 19/4/2016	Car lost	Camera 1		3705	BMD848	"Video Internet T	ec
IPR server 1		12:18:59 19/4/2016	Plate detected	Camera 1		3706	VDG872	"Video Internet T	ec
Autopista Norte (Bogotá)		12:18:55 19/4/2016	Plate detected	Camera 1		3703	BMD848	"Video Internet T	ec
Avenida Caracas (Bogotá)	(01/)	12:18:54 19/4/2016	Car detected	Camera 1		3708	VDG872	"Video Internet T	ec
Avenida Norte-Quito-Sur	(Bogota)	12:18:53 19/4/2016	Car detected	Camera 1		3704	BMD848	"Video Internet T	ec
Avenida Suba (Bogotá) Carrera Séptima (Boqotá)			Car lost	Camera 1	0	3702	BNZ225	"Video Internet T	ec
Shared		12:18:52 19/4/2016	Car lost	Camera 1		3699	BIT713	"Video Internet T	ec
		12:18:52 19/4/2016	Car detected	Camera 1	0	3698	BIT713	"Video Internet T	ec
Cameras	^	12:18:52 19/4/2016	Plate detected	Camera 1		3697	BIT713	"Video Internet T	ec
🕨 🏯 Server			Plate detected	Camera 1	0	3700	BNZ225	"Video Internet T	ec
		12:18:49 19/4/2016	Car lost	Camera 1		3696	VDF489	"Video Internet T	ec
			Plate detected	Camera 1	0	3695	VDF489	"Video Internet T	ec
			Car detected	Camera 1		3694	VDF489	"Video Internet T	ec
		12:18:46 19/4/2016	Car lost	Camera 1	0	3692	VDF489	"Video Internet T	ec
		12:18:44 19/4/2016	Car detected	Camera 1		3701	BNZ225	"Video Internet T	ec
		12:18:42 19/4/2016	Car lost	Camera 1	0	3690	CID84	"Video Internet T	ec
Audio	~	12:18:42 19/4/2016	Plate detected	Camera 1		3688	CID84	"Video Internet T	ec
🛠 MIP Plug-ins	~	12:18:41 19/4/2016	Car detected	Camera 1	0	3689	CID84	"Video Internet T	ec
		<ul> <li>Camera 1</li> </ul>							Þ

Figure 1: License plate protocol as element of XProtect Smart Client interface

Each analytics event has the following parameters:

- Timestamp of license plate recognition in HH:MM:SS DD.MM.YYYY format.
- Message name of the recognition event (see list above).

- **Source name** device (camera/record server) providing the video for processing and analysis. The value matches the name assigned to the device when it was registered in **XProtect** (e.g. Camera 5).
- Tag identification mark used to associate event source (camera) with a specific group of objects. If the camera is not associated to any group, the default value in this parameter is 0. When other user tasks are being solved (e.g. searching for the license plate in external databases), this parameter has other values set by administrator. Displaying tags in XProtect Smart Client is an informational feature.
- Localid number of the event among the all XProtect events.
- **Object Value** result of license plate recognition (alphanumeric string containing the recognized license number).
- Vendor Name company that developed the software (LPR sub-system) used for LPR on the video.
- **Post** ID of the post associated with the event.
- **Speed** of the vehicle passing through the control zone.
- Rule used to trigger the alarm.
- Type of video analysis applied to frames.
- **Zone** name of the parking zone the vehicle was in. This parameter is used if the system administrator configured calculating time spent on parking.
- **Entrance time** time of license plate recognition at the moment of entering the parking zone.
- Exit time time of license plate recognition at the moment of leaving the parking zone.
- **Time on parking** difference between time of entrance and exit, stating the time spent on parking.
- **Group/List** list of license plates, in which the recognized number was found (e.g. 'Employee cars', 'Blacklist'). This parameter is used in cases when the administrator configured automatic search in lists or external databases after the recognition.

Post and Speed columns would only have values if additional event processing logic is applied in XProtect.

With respective rights activated, license plate protocol also allows tracking alarms generated by recognition events. To change the type of events to display (switch from analytics events to alarms and vice versa):

1. Click **Setup** button to activate **XProtect Smart Client** configuration mode. In this mode, the panels of the application would be highlighted yellow (Fig. 2).

Milestone XProtect Smart Client 2014	Milestone XProtect Smart Client 2014						
Live Playback Sequence Explore	er	Alarm Manager				<b>- + 0</b> ‡ १	
XProtect <	< Se	lect view >	-	3		Setup 🛛 🕅	
🔛 Views 🔨	<b>☑</b> A	utoUpdate	< 1-30 >		Create	Expor F ter 🗸	
Search views and cameras Q 😵		Timestamp	Message	Source Name	Tag	Localid	
Search views and cameras Q		12:23:15 19/4/2016	Car lost	Camera 1	0	4164	
4 🛅 Private	-	12:23:15 19/4/2016	Plate detected	Camera 1	0	4162	
<ul> <li>LPR server 1</li> </ul>		12:23:14 19/4/2016	Car detected	Camera 1	0	4163	
Autopista Norte (Bogotá)		12:23:13 19/4/2016	Car lost	Camera 1	0	4161	
Avenida Caracas (Bogotá)		12:23:11 19/4/2016	Plate detected	Camera 1	0	4159	
Avenida Norte-Quito-Sur (Bogotá)		12:23:11 19/4/2016	Car lost	Camera 1	0	4158	
Avenida Suba (Bogotá)		40-00-14 40/4/0016	Plate detected	Camera 1	0	4156	
Carrera Séptima (Bogotá)		12:22:10 10///2016	Car detected	Camera 1	0	4160	
🖬 Shared		12:22:10 10///2016	Car detected	Camora 1	-	4157	

Figure 2: Switching to configuration mode

- 2. On the **Properties** panel, select **Alarms** option from **Data source** dropdown (Fig. 3).
- 3. Exit configuration mode by clicking **Setup** button again.

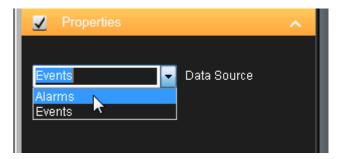


Figure 3: Selecting messages to be displayed in license plate protocol

Additionally, the **Properties** panel contains a **Max number of lines** to specify the maximum number of events to be displayed on one page of license plate protocol. Use the navigation buttons at the top of the recognition view to switch between pages (Fig. 4).

< Selec	t view >	•	3		Setup 🔀
🗹 Auto	Update	< 1 - 30 🚬		Create	Export Filter 🗸
	Timestamp	Micosaye	Source Name	Tag	Localld
	12:27:03 19/4/2016	Car lost	Camera 1	0	4560
	12:27:03 19/4/2016	Car detected	Camera 1	0	4559
	12:27:03 19/4/2016	Plate detected	Camera 1	0	4558
	12:27:03 19/4/2016	Car lost	Camera 1	0	4557
	12:27:02 19/4/2016	Plate detected	Camera 1	0	4555
	12:27:02 19/4/2016	Car detected	Camera 1	0	4556
	12:27:00 19/4/2016	Car lost	Camera 1	0	4554

Figure 4: License plate protocol navigation buttons

## 2.2 viewing event details

To match event data with the segment of the video the license plate was registered on:

- 1. Open Live or Playback tabs.
- 2. Double-click the event in the license plate protocol (Fig. 5). Filtering and searching for events is described further in this user guide.

Milestone XProtect Smart Client	Milestone XProtect Smart Client 2014						4/19/2016 12:37:31 PM	_ 🗆 X
Live Playback S	Sequence Explore	er	Alarm Manager				-	+ 0 ‡ î
XProtect	<	< Select	t view >	•	5			Setup 🔀
III Views	<b>^</b>	🗹 Auto	Update  Timestamp	< 1 - 30 > Message	Source Name	Tag	Create Export Localld	Filter 🧹 Object Value
Search views and cameras	<u> </u>		12:37:18 19/4/2016 12:37:12 19/4/2016	Car lost Car lost	Camera 1 Camera 1	0 0	5554 5551	SHM551 BIR038
<ul> <li>LPR server 1</li> <li>Autopista Norte (Bogg</li> </ul>	tá)		12:37:11 19/4/2016	Plate detected	Camera 1	0	5550	BIR038
Avenida Caracas (Bogo			12:37:08 19/4/2016 12:37:05 19/4/2016	Plate detected Car detected	Camera 1 Camera 1	0	5552 5553	SHM551 SHM551
Avenida Norte-Quito- Avenida Suba (Bogotá Carrera Séptima (Bogo	)	•	12:37:04 19/4/2016 12:37:03 19/4/2016	Car lost Car lost	Camera 1 Camera 1	0 0	5548 5542	BTB507 SWL77

Figure 5: Selecting an event in license plate protocol

As a result, an event card will appear with the name in 'ID/Name/Event source' format — e.g. '275251 Plate detected Camera 5' (Fig. 6). This window contains the following elements:

- Live broadcast of the video fed to LPR sub-system by **XProtect** system video source (if the window is opened using **Live** tab) or the frame on which the license plate was registered (if the window is opened using **Playback** tab).
- The frame, on which the license plate was detected and recognized causing the event to trigger.
- Control of video (forward/backword playback from the moment of license plate detection).
- Video stream selection. If another video source is selected from the dropdown (e.g. switching from Camera 5 to Camera 3), video from newly selected source will be broadcasted live.
- Button to display the frame at the moment of detecting viewed event (may be used to instantly return to the frame after navigating through the video).

Additionally, event card may contain information from external lists and databases.

It is possible to view the frame in more details by clicking the playback area and using scroll wheel to zoom in/out (Fig. 6, 2 and Fig. 7).

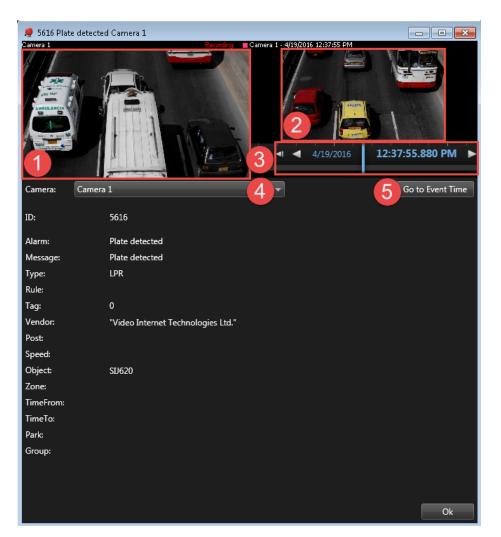


Figure 6: Event card

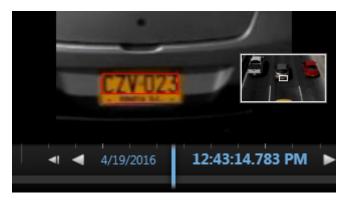


Figure 7: Displaying video in the event

## 2.3 creating/editing events

To edit a license plate string within the event, select the event in license plate protocol and click the value in **Object Value** column — it would become editable (Fig. 8).

Events of license plates being edited manually are named **Plate corrected**.

< Select view >		<b>▼</b> "5			Setup 🔀
AutoUpdate	< 1-	30 >		Create	Export Filter 🗸
Timestamp	Message	Source Name	Tag	Localld	Object Value
12:45:06 19/4/2016	Car lost	Camera 1	0	6342	MOB224
12:45:02 19/4/2016	Plate detected	Camera 1	0	6341	MOB224
12:44:59 19/4/2016	Car detected	Camera 1	0	6343	MOB224
12:44:57 19/4/2016	Car lost	Camera 1	0	6340	IOI11
12:44:57 19/4/2016	Plate detected	Camera 1	0	6339	IOI11
12:44:57 19/4/2016	Car detected	Camera 1	0	6338	IOI11
12:44:56 19/4/2016	Car lost	Camera 1	0	6337	ODO854
12:44:56 19/4/2016	Plate detected	Camera 1	0	6336	ODO854
12:44:56 19/4/2016	Car detected	Camera 1	0	6335	ODO <mark>854</mark>
12:44:56 19/4/2016	Car lost	Camera 1	0	6334	RAL136
12:44:55 19/4/2016	Plate detected	Camera 1	0	6333	RAL136
12:44:55 19/4/2016	Car lost	Camera 1	0	6331	VEW81

Figure 8: Editing recognition results

It is also possible to add license plates to the protocol manually (in real time):

1. Click Create button at the top of recognition view (Fig. 9).

< Select view >		<b>▼</b> "5		_		Set	up [	X
AutoUpdate	< 1-3	0 >			Create	Export	Filter 🔨	~
Timestamp	Message	Source Name	Tag	<b>i</b> t		Object Val	ue	
12:45:06 19/4/2016	Car lost	Camera 1	0	e	5342	MOB224		
12:45:02 19/4/2016	Plate detected	Camera 1	0	e	5341	MOB224		
12:44:59 19/4/2016	Car detected	Camera 1	0	e	5343	MOB224		
12:44:57 19/4/2016	Car lost	Camera 1	0	e	5340	IOI11		
12:44:57 19/4/2016	Plate detected	Camera 1	0	e	5339	IOI11		
12:44:57 19/4/2016	Car detected	Camera 1	0	6	5338	IOI11		

Figure 9: Opening the window to add a license plate

- 2. In the window that appears (Fig. 10), use the dropdown to select a device to be associated with the event (e.g. Camera 5).
- 3. Insert the license plate number into the field under the dropdown.
- 4. Click **OK** to apply changes (or **Cancel** to close the window without adding the number).



Figure 10: Create event window

Events of license plates being added manually are named **Plate added**.

### 2.4 filtering events

Event searching and filtering operations are used to make processing large amounts of data easier. There are small differences between these operations. While search is used to find a specific event in the list, filtering is used to receive a specific list of events. In both cases, the selection may be created with one or more parameters and values for these parameters set on **Filter** panel. The panel is opened/closed by clicking on its name on the top section of recognition view (Fig. 11 and 12).

	4/19/2016 12:48:29 PM 🗕 🗆 🗙					
		er 🕈 🥹 🗘 📍				
		Setup 🛛				
	Create	Export Filter 🗸				
Tag	Localld	Object Value				
0	6342	MOB224				
0	6341	MOB224				
0	6343	MOB224				
0	6340	IOI11				
0	6339	IOI11				

Figure 11: Opening event filtering panel

AutoUpdate	< 1 - 30	>						Create	Export	Filter 🔨
Source	<ul> <li>Priority</li> </ul>		Owner		Zone		✓ From	12:00:00 PN	1 \$ •	Set
Object Value	State		Rule Type		Group/List		,	April 06, 2016		
Message	Tag		Vendor Name				🗹 То	6:20:00 PN		Clear
								▲ April,	1	
Timestamp	Message	Source Name	Тад	Localld		Object Value	Vend	Su Mo Tu We	Th Fr Sa	Speed
12:45:06 19/4/2016	Car lost	Camera 1	0	6342		MOB224	"√ide	27 28 29 30 3 4 5 6	31 1 2 7 8 9	
12:45:02 19/4/2016	Plate detected	Camera 1	0	6341		MOB224	"√ide	10 11 12 13 17 18 19 20	14 15 16 21 22 23	
12:44:59 19/4/2016	Car detected	Camera 1	0	6343		MOB224	"√ide	24 25 26 27 1 2 3 4	<b>28 29 30</b> 5 6 7	
12:44:57 19/4/2016	Car lost	Camera 1	0	6340		IOI11	"Vide			
12:44:57 19/4/2016	Plate detected	Camera 1	0	6339		IOI11	"Vide	6:20 PM	\$ <b>*</b>	
12:44:57 19/4/2016	Car detected	Camera 1	0	6338		IOI11	"Video	Internet Tec		



The panel contains the following elements:

- **Apply** button that confirms applying filters. After this button is clicked, only the events that meet specified conditions will be displayed.
- Clear button that cancels filtering with specified parameters.
- Filtering parameters:
  - Recognition event parameters such as Message, Source Name, Object Value (see Monitoring events).
  - From searching for events received *after* specific date.
  - To searching for events received *before* specific date.
  - Priority, State, Owner, Group/List parameters of an alarm triggered when a specific recognition event is generated. These parameters (with an exception of Rule parameter) may not be used in filtering if the view only includes events.

Separate views for alarms may be set on **Alarm Manager** tab. Whether or not **Alarm Manager** tab is available in your application is determined by your CCTV system settings.

By default, **From** and **To** parameters are inactive with their values set to the same dates. To set the time period for filtering, activate the parameters by checking respective checkboxes. The date is set by clicking an icon next to the date field (Fig. 13).

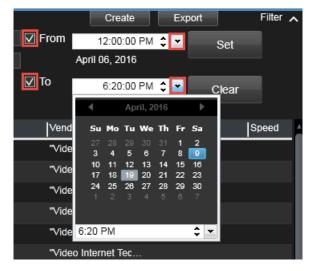


Figure 13: Setting time period for filtering

## 2.5 exporting events

**Export** button opens a window to save current list of events as CSV, PDF or XML file (Fig. 14). It is possible to export:

- a list of all events.
- a list of events, created with filtering.

			Setup 🔀
	Create	Export	Filter 🗸
Object Value	Vendor Name	-osi	Speed
MOB224	"Video Internet Tec		
MOB224	"Video Internet Tec		
MOB224	"Video Internet Tec		

Figure 14: Opening export window

Export window contains:

- Common export tab (Fig. 15) to select the parameters to be included into export for each event.
- **Special export** tab (Fig. 16) to select a parking zone where the events were registered within a specific period of time.

🕏 Export				
Common Export	Special Export			
Select Data:	All			
Assigned To CameraId Category Category Name Tag Timestamp Description Type Id LocalId LocalId	<ul> <li>Message</li> <li>Modified</li> <li>Alarm</li> <li>Object Value</li> <li>Priority</li> <li>Priority Name</li> <li>Rule Type</li> <li>SourceId</li> <li>Source Name</li> <li>State</li> <li>State Name</li> </ul>	Vendor Name Speed Post Zone Time In Time Out Park Group/List	Ok Car	ncel

Figure 15

😔 Export	
Common Export	Special Export
ſ	
From	Sunday, March 20, 2016 12:57:01 PM 💲 💌
То	Tuesday, April 19, 2016 12:57:01 PM 💲 💌
Zone	ParkingLevel_3
	Ok Cancel

Figure 16

When all parameters are set, save the file (Fig. 17).

🗢 Save As							
C V Lit	oraries 🕨 Documents 🕨 🛛 👻 🍫	Search Documents					
Organize 🔻 Ne	w folder	:= - 🔞					
ጵ Favorites 📃 Desktop	Documents library Includes: 2 locations	Arrange by: Folder -					
🗼 Downloads 🖳 Recent Places	E Name	Date modified Type					
Recent Places	No items match you	h your search.					
🥽 Libraries							
Documents							
🌙 Music							
📔 Pictures							
📕 Videos	▼	4					
File name:	LPR_events_March_April_2016	•					
Save as type:	CSV Files(*.csv)	•					
) Hide Folders	(	Save Cancel					

Figure 17

For convenience of the user, it is possible to:

- hide event parameter columns that are not in use.
- change column width.
- change column placement.

When XProtect SmartClient is restarted, all changes to Viewer module interface are saved.

To hide columns, right-click the column header area. A context menu appears with all displayed columns checked with a checkmark (Fig. 18). Left-click the parameter to uncheck it.

Autopi	sta Norte (Bogotá)	•	5					Setup	6
Z Auto	oUpdate	< 1-30 >					Create	Export	Filter
	Timestamp	Message	Source Name	Tag	v Timestamp	Alarm	Object Value	Rule Type	
-	13:01:57 19/4/2016	Car lost	Camera 1	0	✓ Message	Car lost	BLR938		
-	13:01:54 19/4/2016	Car detected	Camera 1	0	✓ Source Name	Car detected	BLR938		
-	13:01:54 19/4/2016	Plate detected	Camera 1	0	v Tag	Plate detected	BLR938		
-	13:01:53 19/4/2016	Car lost	Camera 1	0	√ LocalId	Car lost	NMT38		
-	13:01:53 19/4/2016	Plate detected	Camera 1	0	✓ Object Value	Plate detected	NMT38		
-	13:01:53 19/4/2016	Car detected	Camera 1	0	Rule Type	Car detected	NMT38		
-	13:01:51 19/4/2016	Car lost	Camera 1	0	✓ Vendor Name	Car lost	SMO806		
-	13:01:49 19/4/2016	Car lost	Camera 1	0	√ Post	Car lost	KVS61B		
-	13:01:49 19/4/2016	Car detected	Camera 1	0	✓ Speed	Car detected	KVS61B		
-	13:01:49 19/4/2016	Plate detected	Camera 1	0	√ Zone	Plate detected	KVS61B		
-	13:01:48 19/4/2016	Car lost	Camera 1	0	🗸 Time In	Car lost	KAI51		
-	13:01:48 19/4/2016	Plate detected	Camera 1	0	✓ Time Out	Plate detected	KAI51		
	13:01:48 19/4/2016	Car detected	Camera 1	0	√ Park	Car detected	KAI51		
-	13:01:48 19/4/2016	Car lost	Camera 1	0	✓ Group/List	Car lost	ESE02A		
	13:01:48 19/4/2016	Plate detected	Camera 1	0	8008	Plate detected	ESE02A		
	13:01:47 19/4/2016	Plate detected	Camera 1	0	8016	Plate detected	SMO806		
	13:01:46 19/4/2016	Car lost	Camera 1	0	8006	Car lost	HEG11		
	13:01:46 19/4/2016	Car detected	Camera 1	0	8005	Car detected	HEG11		
	13:01:46 19/4/2016	Plate detected	Camera 1	0	8004	Plate detected	HEG11		



For example, only **Timestamp**, **Message**, **Source Name**, **LocalId**, **Object Value** and **Vendor** columns are selected. These are the columns to be displayed in the protocol (Fig. 19).

Autopi	sta Norte (Bogotá)	•	5				
🗹 Auto	oUpdate	< 1-30 >					Create Export
	Timestamp	Message	Source Name	Localid	Alarm	Object Value	✓ Timestamp
	13:04:47 19/4/2016	Plate detected	Camera 1	8334	Plate detected	UDO854	√ Message
	13:04:47 19/4/2016	Car lost	Camera 1	8330	Car lost	RAL136	✓ Source Name
	13:04:46 19/4/2016	Car lost	Camera 1	8333	Car lost	VEW81	Tag
	13:04:46 19/4/2016	Plate detected	Camera 1	8329	Plate detected	RAL136	✓ LocalId
	13:04:46 19/4/2016	Plate detected	Camera 1	8332	Plate detected	VEW81	✓ Object Value
	13:04:46 19/4/2016	Car detected	Camera 1	8331	Car detected	VEW81	Rule Type
	13:04:45 19/4/2016	Car detected	Camera 1	8328	Car detected	RAL136	Vendor Name
	13:04:45 19/4/2016	Car lost	Camera 1	8327	Car lost	KAV715	Post
	13:04:44 19/4/2016	Plate detected	Camera 1	8326	Plate detected	KAV715	Speed
	13:04:43 19/4/2016	Car detected	Camera 1	8325	Car detected	KAV715	Zone
	13:04:43 19/4/2016	Car lost	Camera 1	8324	Car lost	SQK583	Time In Time Out
	13:04:43 19/4/2016	Car detected	Camera 1	8323	Car detected	SQK583	Park
	13:04:43 19/4/2016	Plate detected	Camera 1	8322	Plate detected	SQK583	Group/List
	13:04:40 19/4/2016	Car lost	Camera 1	8318	Car lost	VDC998	
-	13:04:39 19/4/2016	Plate detected	Camera 1	8316	Plate detected	VDC998	
	13:04:39 19/4/2016	Plate detected	Camera 1	8319	Plate detected	VEA691	
	13:04:38 19/4/2016	Car lost	Camera 1	8315	Car lost	VTD791	
	13:04:38 19/4/2016	Car detected	Camera 1	8321	Car detected	VEA691	
	13:04:38 19/4/2016	Car detected	Camera 1	8317	Car detected	VDC998	

Figure 19

Source Name	↓_Ωbject Value
Camera 1	SIJ007
Camera 1	SIJ007
Camera 1	RZI284

Figure 20: Changing column width

To change the position of a column, left-click it (the header of selected column becomes highlighted white) and drag it to the new position (Fig. 21).

Autopis	ta Norte (Bogotá)	• : •	5	
🗸 Auto	Update	< 1-30 >		
-	Timestamp	Message		Source Name
	13.00.33 13/4/2010			Callicia I
	13:08:55 19/4/2016	Plate detected		Camera 1
	13:08:53 19/4/2016	Car detected	Object Value	amera 1
	13:08:52 19/4/2016	Car detected	VTD791	Camera 1
-	13:08:51 19/4/2016	Plate detected	VDC998	Camera 1
	13:08:49 19/4/2016	Car detected	VFI614	Camera 1
-	13:08:47 19/4/2016	Car lost	BOW143	Camera 1
	13:08:47 19/4/2016	Plate detected	VFI614	Camera 1
-	13:08:45 19/4/2016	Car detected	VFI614	Camera 1

Figure 21