

# Fablmage Studio 5.3

## Working with GigE Vision® Devices

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## **Enabling Traffic in Firewall**

Standard windows firewall or other active firewall applications should prompt for confirmation on enabling incoming traffic upon first start of an FabImage program that is using a video streaming filter. Sample prompt message from standard Windows 7 Firewall is shown on the image bellow.

🔐 Windows Secu	urity Alert		$\times$
Windo app	ws Defend	er Firewall has blocked some features of this	
Windows Defender all public, private ar		cked some features of FabImage Studio 5.3 Professional on orks.	
· · · · · · · · · · · · · · · · · · ·	<u>N</u> ame:	FabImage Studio 5.3 Professional	
	Publisher:	Zebra Technologies Corporation	
	Pat <u>h</u> :	C:\program files\fabimage\fabimage studio 5.3 professional \fabimagestudio.exe	
Allow FabImage Stu	udio 5.3 Profess	ional to communicate on these networks:	
Domain netw	vorks, such as a	workplace network	
Private netw	orks, such as m	y home or work network	
		ose in airports and coffee shops (not recommended en have little or no security)	
What are the risks	of allowing an a	pp through a firewall?	
		Sellow access Cancel	

Please note that **a device connected directly to computer's network adapter** in Windows Vista and Windows 7 will become an element of an unidentified network. Such device will be treated by default as **Public network**. In order to communicate with such a device you must allow for traffic also in Public networks as shown on the above image.

Clicking on *Allow access* will enable application to stream video from a device. Because of a delay caused by the firewall dialog first run of a program may fail with a timeout error. In such situations just try running program again after enabling access.

For information about changing settings of your firewall application search how to allow a program to communicate through this firewall in a Windows help or a third party application manual. GigE Vision® driver requires that incoming traffic is enabled on all UDP ports for FabImage Studio and FabImage Executor (by default located in C:\Program Files\FabImage\FabImage Studio Professional\FabImageStudio.exe and C:\Program Files\FabImage FabImage Studio Runtime\FabImageExecutor.exe).

## **Enabling Jumbo Packets**

## Introduction

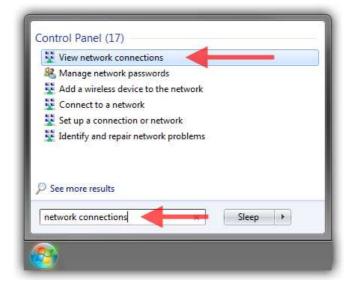
Jumbo Packet is an extension of network devices that allows for transmission of packets bigger than 1.5kB. Enabling Jumbo Packets can significantly increase video streaming performance.

Note that not all network devices support Jumbo Packets. To activate a big packet size, all devices from a network adapter through network routing equipment to a camera device must support and have enabled big packet sizes. Most suitable situation for using Jumbo Packets is when the device is connected directly to computer's network adapter with a crossed Ethernet cable.

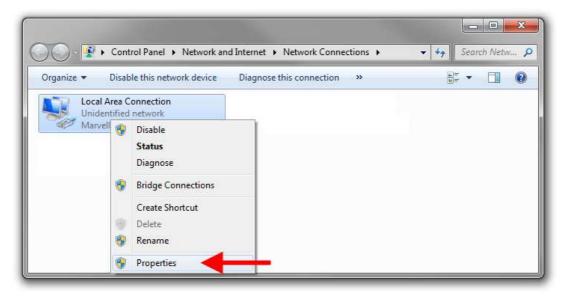
Do not enable Jumbo Packets when the device is connected through complicated network infrastructure with more that one routing path as maximum allowed packet sizes detected at application start can change later in the process.

## Enabling Jumbo Packets in Windows Vista/7

1. Open network connections applet from the control panel.



2. Right click a network adapter that have a connection with a device and open its properties (an administrator password may be needed).



3. In network adapter's properties click on Configure.

Networking	Sharing		
Connect us	ing:		
Man	ell Yukon 88E8056 P	CI-E Gigabit Eth	ernet Controller
		- (	Configure

4. From Advanced tab select *Jumbo Packet* property and increase its value up to 9014 Bytes (9k Bytes). This step might look differently depending on the network card vendor. For some vendors this property might have different similar name (e.g. *Large Packet*). When there is no property for enabling/setting large packet size this card does not support jumbo packets.

on the right. Property:		Value:
Energy Star Flow Control Interrupt Moderation IPv4 Checksum Offload	Â	9014 Bytes 1514 Bytes 4088 Bytes 9014 Bytes
Jumbo Packet Large Send Offload (IPv4) Log Status Messages Max IRQ per Sec Network Address Receive Buffers Speed & Duplex TCP Checksum Offload (IPv4) Transmit Buffers UDP Checksum Offload (IPv4)		

5. Click OK.

## **GigE Vision® Device Manager**

The GigE Vision Device Manager is available from *Tools* section within the Main Window Menu. It also appears when a user starts to edit some properties of GigE Vision®-related filters.

## **Device Manager Functions**

Typical state of the Device Manager is shown on image below. Note that the window may change its appearance depending on its purpose (like selecting a device address in a filter).

GigE Vision Device Manager				0 x
Select source device:			Refres	h Tools 🔻
Device name	IP Address	MAC Address	Serial number	User ID
Basler acA2500-14gc	10.57.168.190	00:30:53:17:5E:D1	21531601	Cam1
Identify this device in network by				
IP Address     MAC Address	s Serial number			
			Select	Cancel

At first the manager will search local network for active devices. All found devices will be shown in list with the following information: manufacturer name and device name, current IP address, network interface hardware address (MAC address), serial number (if supported), user specified name (saved in the device memory; if supported by device). Informations like MAC address and serial number should be printed on the device casing for easy identification. Sometimes, when a device has more than one interface, is may appear in list more that once. In this situation every entry in the list identifies another device feature.

### Refresh

Refresh button performs a new search in the network. Use this function when the network configuration has been changed, a new device has been plugged in or when your device has not been found at startup.

Select source device:			e** Refi	est Tools 🔻
Device name	IP Address	MAC Address	Serial number	User ID
Basler acA2500-14gc	10.57.168.190	00:30:53:17:5E:D1	21531601	Cam1

#### Tools

Tools button opens a menu with functions designed for device configuration. Some of these functions are device dependant and require the user to selected a device on the list first (they are also available in a device context menu).

🍞 GigE Vision Device Ma	nager				∕
Select source device:				Refresh	
Device name	IP Address	MAC Address	Serial number	User ID	Access Device Settings
Basler acA2500-14gc	10.57.168.190	00:30:53:17:5E:D1	21531601	Cam1	Setup Device Network Interface
					Device Details
					Save Device Diagnostic to File
					Assign Temporary IP for Unreachable Device
Identify this device in netw	vork by				Application Transport Settings
IP Address	MAC Address	erial number			Open GenlCam XML Files Directory
			Se	elect	Cancel

Tool: Access Device Settings...

This tool allows to access device-specific parameters prepared by its manufacturer and available through GenlCam interface.

#### See: Device Settings Editor

Tool: Setup Device Network Interface...

This tool is intended to manage network configuration of a device network adapter.

Ba	isler acA2500-14gc n	etwork interface setup			x
	Static address		Current address		
	IP:	10.57.168.190	IP:	10.57.168.190	
	Subnet mask:	255.255.248.0	Subnet mask:	255.255.248.0	
	Default gateway:	0.0.0.0	Default gateway:	0.0.0	
	Device IP configuration	1			
	Use static IP	✓ Use DHCP s	erver	Use Link-local address	
				OK Cancel	
				OK Cancel	

- Static address this field allows to set a static (persistent) network configuration saved in device non-volatile memory. Use this setting when the device is identified by IP address that cannot change or when automatic address configuration is not available. This field has no effect when Use static IP field is not checked.
- Current address this read-only field shows current network configuration of a device, for example the address assigned to it by a DHCP server.
- **Device IP configuration** this field allows to activate or deactivate specified methods of acquiring addresses by a device on startup. Some of this options can be not available (grayed) when the device is not supporting specified mode.
  - Use static IP Device will use address specified in Static address field.
  - Use DHCP server When a DHCP server is available in the network, devices will acquire automatically assigned address from it.
  - Use Link-local address When there is no other method available a device will try to find a free address from 169.254.-.- range.
     When using this method (for example on a direct connection between the device and a computer) the device will take significantly more time to become available in network after startup.

After clicking OK the new configuration will be send to a device. Configuration can be changed only when the device is not used by another application and/or is not streaming video. New configuration may be not available until the device is restarted or reconnected.

Tool: Assign Temporary IP for Unreachable Device

This tool is intended for situations when a device cannot be accessed because of its invalid or unspecified network configuration (note that this should be a very rare case and usually the device should appear in list). The tool allows to immediately change network address of an idle device (thus realizing GigE Vision® FORCE IP function).

Set Device Temporary	/ IP Address X
Device identification	
Hardware MAC addres	\$8:
00:30:53:17:	5E:D1
New device address	
IP address:	10.57.168.190
Subnet mask:	255.255.248.0
Default gateway:	0.0.0.0
	Send Close

This tool requires a user to specify device hardware network adapter MAC address (should be printed on device casing). After that a new IP configuration can be specified. The address can be changed only when the device is idle (is not connected to other application and not streaming video). The new address will be available immediately after successful send operation.

Tool: Application Transport Settings...

This tool allows to access and edit application settings related with driver transport layer, like connection attempts and timeouts. Settings are saved and used at whole application level. Changes affects only newly opened connections.

#### Tool: Open GenlCam XML Directory

GigE Vision® devices are implementing GenlCam standard. GenlCam standard requires that a device must be described by a special XML file that defines all device parameters and capabilities. This file is usually obtained automatically by the application from the device memory or from manufacturer's internet web page. Sometimes the XML file can be supplied by manufacturer on a separate disk. FabImage Studio and FabImage Executor use a special directory for these files which is located in the user data directory. Use this tool to open that directory.

Device description files should be copied into this directory without changing their name, extension and content. File can also be supplied as a ZIP

### Selecting Device Address for Filter

Device Manager can be opened as a helper tool for editing device address in filter properties.

		GigE Vision Device Manager	GigE Vision Device Manager         Ø				
6	Value (S)	Select source device:	Refresh	Tools 🔻			
~		Device name	IP Address	MAC Address			
		Basler acA2500-14gc	10.57.168.190	00:30:53:17:5E:D			
0		<u></u>					
		Identify this device in network by	den Condension				
			aress Senai number				
			Select	Cancel			
	1124	Synchronous	Value 😵 Select source device: Synchronous Mono8 Identify this device in network by-	Value       Refresh         Synchronous       IP Address         Mono8       IIP Address         Identify this device in network by       Identify this device in network by			

In such mode the manager allows to select one device from list (by selecting it on a list and clicking Select or by double clicking on the list). Below the list shown are options determining how a device will be identified in program:

- IP Address (Default) Current device IP address will be saved in program. This mode allows for faster start, but when the device is using automatic IP configuration its address can change in future and device will become unavailable for the program.
- MAC Address Device hardware MAC address will be saved in a program. Upon every program start application will search for the device to obtain most recent IP address. This mode allows to identify device even when its IP is changed.
- Serial number Device serial number will be saved in a program. Use this mode only when device serial number identification is supported by device. Upon every program start application will search for the device to obtain most recent IP address. This mode allows to identify the device even when its IP has changed.

After device selection, address in the chosen format is inserted into a filter's property value.

### **Selecting Pixel Format**

Device manager can be opened as helper tool for editing device pixel format for GigEVision\_GrabImage filter parameter.

GigE Vision Device M	lanager	Ø ×
Select device for which s	Basler acA2500-14gc pixel formats X	Tools 🔻
Device name		User ID
Basler acA2500-14gc	Mono 8 OK Cancel	Cam1
	Select	Cancel

In this mode additional dialog is shown with a drop-down list of pixel formats supported by a device. When there is more that one device in the network you must first select a device for which format will be selected. When there is no device available in network a list of all standard pixel formats will be shown.

Pixel format list contains all formats signaled by a device and uses a name provided by the device. If it is a device-specific format, if may be not possible to decode it.

After selecting a format and clicking Ok the format name will be inserted into a filter's property value.

### **Firewall Warning**

In some situations device manager might show a warning message about Windows firewall.

GigE Vision Device Manager				0
Select source device:			Ref	resh Tools 🔻
Device name	IP Address	MAC Address	Serial number	User ID
Basler acA2500-14gc	10.57.168.190	00:30:53:17:5E:D1	21531601	Cam1
WARNING: Applicatio	n will be unable to stream video f	rom device when firewall is	s activated. Be sure to	enable UDP incoming traffic
WARNING: Application for Studio and Executo	n will be unable to stream video f r in system firewall.	rom device when firewall i	s activated. Be sure to o	enable UDP incoming traffic
for Studio and Executo	r in system firewall.	rom device when firewall i	s activated. Be sure to o	enable UDP incoming traffic

This warning is shown when the application has determined that Windows firewall will block any type of UDP traffic for application. For some devices it is required that incoming UDP traffic is explicitly allowed in firewall. Lack of this warning does not indicate that firewall will not block connection (for example if there is a 3rd party firewall in the system or when the Windows firewall allows traffic in Private domain but a device is in an unidentified network).

To clear out this message you must enable incoming traffic on all UDP ports in Windows firewall. For more information about enabling traffic in Windows Firewall see: Enabling Traffic in Firewall.

## **Connecting Devices**

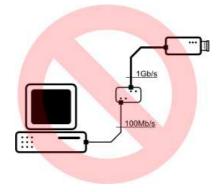
Connecting a GigE Vision device to a computer means plugging both into the same Ethernet network.

It is recommended that the connection is as simple as possible. To achieve best performance use direct connection with a crossed Ethernet cable or connect the camera and the computer to the same Ethernet switch (without any other heavy traffic routed through the same switch).



The device and the computer must reside in a single local area network and must be set up for the same subnet.

GigE Vision® is designed for 1 Gb/s networks, but it is also possible to use 100 Mb/s connection as long as the entire network connection have an uniformed speed (some custom device configuration might be required when the device is not able to detect connection speed automatically). It is recommended however to avoid connecting a device to a network link which is faster than the maximum throughput of the whole network route. Such configurations require manual setting of the device's transmission speed limit.



#### **Firewall Issues**

GigE Vision® protocol produces a specific type of traffic that is not *firewall friendly*. Typical firewall software is unable to recognize that video streaming traffic is initialized by a local application and will block this connection. FabImage's GigE driver attempts to overcome this problem using *firewall traversal mechanism*, but not all devices support this.

It is thus required to enable incoming traffic on all UDP ports for FabImage Studio and FabImage Executor in a firewall on your local computer.

For information how to enable such traffic in Windows Firewall see: Enabling Traffic in Firewall.

#### **Configuring IP Address of a Device**

In most situations a GigE Vision device is able to automatically obtain an IP address without user action (using DHCP server or automatic local link address). It is however recommended to set a static IP address for both local network card and device whenever possible. In some cases (e.g. when preparing the device for operation in an industrial network) it might be required to access and set/change the device's network configuration for a proper static IP address. Most suitable for this purpose will be a software and a documentation provided by the device manufacturer. When these are not available FabImage Studio offers universal configuration tools available from the GigE Vision Device Manager (see: Device Manager section).

#### **Packet Size**

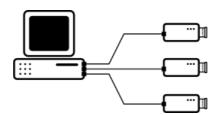
Network video stream is divided into packets of a specified size. The packet size is limited by the Ethernet standard but some network cards support an extension called *jumbo packet* that increases allowed packet size. Because a connection is more efficient when the packet size is bigger, the application will attempt to negotiate biggest possible network packet size for current connection, taking advantage of enabled jumbo packets.

For information how to enable jumbo packets see: Enabling Jumbo Packets

#### **Connecting Multiple Devices to a Single Computer**

It is possible to connect multiple GigEVision cameras to a single computer and to perform image processing based on multiple video streams (e.g. observing objects from multiple sides), however it can introduce multiple technical challenges that must be considered.

For the best performance it is recommended to connect all devices directly to the computer using multiple gigabit network cards:



In such configuration it is required for the computer hardware to handle concurrent gigabit streams at once. Even when separate network cards are

able to receive the network streams there still may be problems for the computer hardware to transfer data from the network adapters to the system memory. Attention must be paid when choosing hardware for such applications. When given requirements are not met the system may observe excessive packets loss leading to the video stream frames loss.

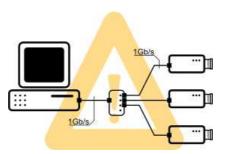
Even when the cameras framerate is low and the resulting average network throughput is relatively low the system still **may drop packets during network bursts** when the momentary data transfer exceeds the system capabilities. Such burst may appear when multiple cameras transmit a single frame at the same time. By default GigEVision camera is transferring a single frame with maximum available speed and lowering framerate is only increasing the gaps between frame transfers:



Average bandwidth utilization: 0.5 Gb/s

Although diagnostic tools will report network throughput utilization to be well below system limits it is still possible for short burst transfers to temporary exceed the system limits resulting in packets drop. To overcome such problems it is required to not only ensure camera framerates to be below proper limit, but also to limit the maximum network transfer speed of the device network adapters. Refer to the device documentation for details about how to limit the network transfer speed in specific device. Usually this can be achieved by decreasing value of parameters such as *DeviceLinkThroughputLimit* or *StreamBytesPerSecond* (in bytes per second), or by introducing delays in between the network packets by increasing parameters such as *PacketDelay*, *InterPacketDelay* or *GevSCPD* (measured in internal device timer ticks - must be calculated individually for device using device timer frequency).

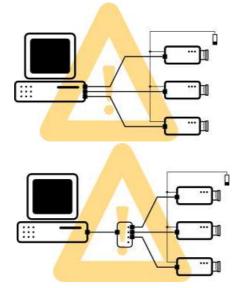
Above requirements are especially important when cameras are connected to the computer using a single network card and a shared network switch:



Special care must be taken to assure that all the cameras connected to the switch (when all transmitting at once) do not exceed transfer limits of the connection between the switch and the computer, both average transfer (by limiting the framerate) as well as temporary burst transfer (by limiting network transfer speed). Network switch will attempt to handle burst transfers by storing the packets in its internal buffer and transmitting packets stored in the buffer after the burst, but when the amount of data in burst transfer exceeds the buffer size the network packets will be dropped. Thus it is required for the switch buffer to be large enough to store all camera frames captured at once, or to limit transmission speed for the switch buffer to not overflow.

It is important to note that **the maximum performance of the multi-camera system with shared network switch is limited by the throughput of the link between the switch and the computer**, and usually it will not be possible to achieve the maximum framerate and/or resolution of the cameras.

A common case of using multiple cameras at once is to capture multiple photos of a object from a single trigger source (with synchronous triggering):



transferring images at the same time the problem of momentary burst transfer is especially present. Care must be taken to limit the maximum network transmission speed in the cameras to the system limits and to give enough time between trigger events for the cameras to finish the transfer.

## **Device Settings Editor**

GigE Vision® compliant devices are implementing GenlCam standard that describes camera internal parameters and a way how to access them. Device Manager allows a user to access and edit device settings through a Settings Editor tool (available from *Tools* » Access Device Settings).

Example appearance of the Device Settings Editor is shown on the image below.

🔧 Analog Controls 😪 Image Format Controls	-	Exposure Time (Abs)
Acquisition Controls     Acquisition Controls     Acquisition Controls     Acquisition Mode	(†	This float value sets the camera's exposure time in microseconds.
		Edit Information
<ul> <li>Trigger Mode</li> <li>Generate Software Trigger</li> <li>Trigger Source</li> <li>Trigger Activation</li> <li>Trigger Delay (Abs)</li> <li>Exposure Mode</li> <li>Exposure Auto</li> <li>Exposure Time (Abs)</li> <li>Exposure Time (Abs)</li> <li>Global Reset Release Mode Enable</li> <li>Enable Acquisition Frame Rate</li> <li>Acquisition Frame Rate (Abs)</li> <li>Resulting Frame Rate (Abs)</li> <li>Acquisition Status Selector</li> <li>Acquisition Status</li> </ul>		14910 us + = Save
+ k		

On the left side of the window is a tree representation of device parameters split into categories. All these parameters and their organization is device dependent, which means that different devices can produce different sets of parameters, with different meanings. Parameter's friendly name and a brief explanation (also provided by a device) is shown on the right side of the window after the parameter is highlighted in tree. For more information about specific parameter functions refer to a device documentation.

When editing selected parameter is possible and supported, an editor of the parameter value will be displayed below its explanation. Different editors are provided for the following parameter types:

- Integer Plain number or hexadecimal number (indicated by *Hex* label on the left side of the text box). Values are limited by their maximum, minimum and allowed step. Numbers that does not fulfill this rules are corrected automatically upon confirmation. After clicking on *Save* button (or pressing *Enter*) new value will be validated and sent to the device.
- Float Real number with fractional part. Values are limited by their maximum and minimum. Numbers that do not match this range are corrected automatically upon confirmation. A parameter can also have suggested step added after clicking in +/- buttons. After clicking on *Save* button (or pressing Enter) new value will be validated and sent to the device.
- String Text of a limited length.
- Boolean Single Yes/No value represented by check box. A value is sent to the device immediately after check state is changed.
- Enumeration Parameter that accepts one of several predefined values. Predefined values are represented as list of their friendly names. Parameter is edited by choosing one of its values from a drop-down list. New values are sent to the device immediately after their selection in the list.
- **Command** This is a special parameter that is represented only by a single button. Clicking on button will execute related activity in the device (for example Saving current parameter set to non-volatile memory).

Depending on situation, editor can be disabled (grayed), which means that this parameter is currently locked (for example parameter describing image format when the camera streaming is active). Editor can be read only (Save button grayed, grayed drop-down list or unchangeable checkbox), which means that this parameter is read-only (for example informational parameters like manufacturer name).

Instead of an editor can there also be a displayed text: "This parameter is currently not available". This means that the parameter can not be accessed or edited in the current device state or due to other parameter states. For example parameter describing acquisition frame rate value, when the user selection of frame rate is disabled (by parameter like *Enable Acquisition Framerate*).

Sometimes with the parameter editor displayed will be an additional editor, named selector.

Line Mode			
	rols whether the physical Line is used to Input or ut a signal.		
Edi	Information		
	Line 1		
	Strobe		

In such situation selected parameter is connected with one of categories (slots) described by selector. In the example on the above image, parameter is determining whether the physical Line is used to Input or Output a signal. This device has two lines and both have its own separate values to choose from. Selector will pick which line we want to edit and bottommost editor will change it purpose. This means that there are actually two different *Line Modes* parameters in device.

Please note that selector will not always be displayed above editor. You must follow a device documentation and search parameters tree for selectors and other parameters on which this parameter is dependent.

The Device Settings Editor can be used to identify device capabilities and descriptions or to set up a new device. Device Editor can be also used when a program is running and the camera is streaming. In this situation changes should be immediately visible in the camera output.

Settings Editor gives a user an unlimited access to the device parameters and, when used improperly, can put device in an invalid state in which the device will become inaccessible by applications or can cause transitional errors in the program execution.

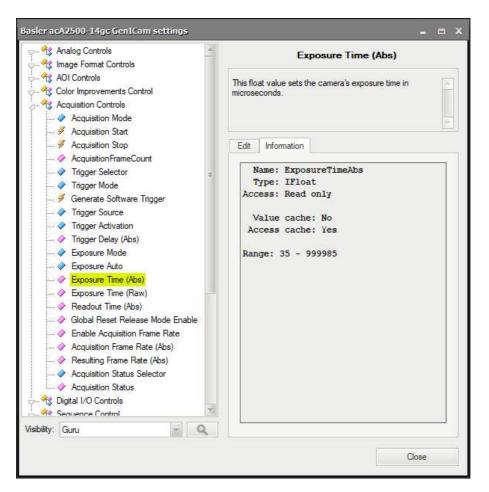
## **Saving Device Configuration**

Most parameters available in the Settings Editor are stored by devices in a volatile memory and will be lost (reset to default) after device reset or power down.

A device should offer functions to save parameters set in *Configuration Sets* section of parameters tree. Refer to a device documentation for more information about configuration set saving and loading.

### **Selecting Parameter Name for Filter**

The Settings Editor can be also used to select parameter names for filters in FabImage Studio. You can access this mode by clicking ... button in filter properties list. When there is more that one device in the network one must be first selected in the manager. The tool will show parameters of the specified device for its current state.



In this mode the window appearance is changed. Instead of editors, on the right side of the window displayed are useful informations for a program developer, including:

- Name parameter internal name. Note that parameter tree and descriptions are using human friendly name, not parameter ID. This field shows a proper parameter ID that must be used in a filter property. You can easily transfer this name to property list by clicking Select button (or double clicking parameter in tree).
- Type parameter type name. This type must be consistent with the filter value type.
- Access allowed access to parameter. Parameter must be writable to be set by program.
- Range for numeric parameters this field shows the allowed range. Range of some parameters can change dynamically during its operation.
- Value cache when GenAPI cache is enabled this field indicates if device allows to store this parameter value in local memory to reduce network operations.
- Access cache when GenAPI cache is enabled this field indicates if device allows to store access mode of this parameter in local memory to reduce network operations on controlling parameter accessibility.
- Available entries for enumeration parameters this field will list currently available values for a parameter. The field shows proper internal IDs that should be used when setting the parameter (note that editor's drop-down lists are using human friendly names).

## **Known Issues**

In this section you will find solutions to known issues that we have came across while testing communication between FabImage products and different camera models through GigE Vision.

### **Imaging Source Cameras**

There might be problems with image acquisition from Imaging Source cameras through GigE. It's caused by the implementation (regarding caching and packet size) of GigE Vision standard in those cameras and as a result no image can be seen in FabImage Studio (the previews are empty during program execution).

To resolve this issue, a camera restart (this has to be done only once, after you encounter the problem with image acquisition) and changing some parameters in FabImage GenAPI configuration are required. Parameters which should be changed are:

- Enable GenAPI Cache (should be set to False),
- Disable Packet Size Negotiation (should be set to True),
- Enable Constant Packet Size (should be set to False).

You can change these parameters in the GigEVision Application Settings Tree (*Tool » Manage GigE Vision Devices… » Tools » Application Transport Settings*). Make sure that each of the three parameters mentioned above is set to the proper value in this tree.

GenICam settings tree 🛛 🗖 🗙			
GentCam settings tree	Enable GenAPI Cache		
Visibility: Guru	Close		

#### Flir Cameras

There might be problems with image acquisition from Flir cameras through GigE Vision. It is caused by the implementation (regarding image trailer data) of the GigE Vision standard in those cameras and as a result no image can be seen in FabImage Studio (the previews are empty during program execution).

To resolve this issue a parameter change in FabImage GenAPI configuration is required. Parameter which should be changed is:

• Enable Ignore Gev Image Trailer data (should be set to True).

You can change these parameters in the GigE Vision Application Settings Tree (Tool » Manage GigE Vision Devices... » Tools » Application Transport Settings). Remember to revert this changes before working with different devices as it can prevent some cameras from working properly in some modes.



This article is valid for version 5.3.4