

Simplon revision history

Log of changes between individual Simplon versions

Leutron Vision

Simplon revision history: Log of changes between individual Simplon versions

Leutron Vision

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General information

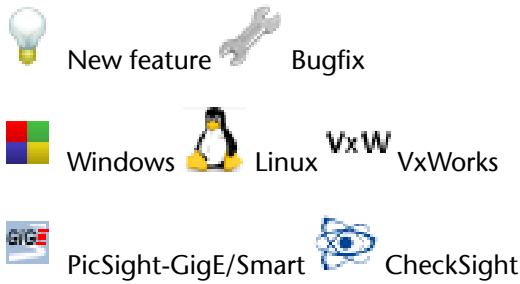
Scope of the manual

The document lists all major updates, new features and bug fixes as they appeared in individual released Simplon versions.

Related documents



- [PicSight-GigE & PicSight-Smart revision history](#) — overview of new features and fixed bugs between individual releases of PicSight-GigE/PicSight-Smart firmware.
- [CheckSight revision history](#) — overview of new features and fixed bugs between individual releases of CheckSight firmware.

1. Release notes for Simplon, sorted per version



Version 1.00.102

Simplon GenTL Producer


	Linux: CBCMA novram could not be read properly. Fixed
	CheckSight2: Support for G123

Simplon API

	Bayer decoding Bilinear Color Correction was not decoding properly to RGB32 images. Fixed.
---	--


Version 1.00.099

Simplon GenTL Producer

	CS2 support for final Flash ring 111
---	--------------------------------------


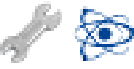
Version 1.00.098

Simplon GenTL Producer

	CheckSights: UserSet does not save correctly I/O out settings. Fixed
---	--

Version 1.00.097

Simplon GenTL Producer

	Linux adaption
	CheckSights: Some sensors may get triggered during acquisition configuration. Fixed.

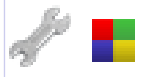
Version 1.00.096

Simplon GenTL Producer



All CCD sensors not functional in 1.00.095. Fixed

Simplon API



Simplon .NET 4.0 x64 was not correctly recompiled. Fixed.

Version 1.00.095

Simplon GenTL Producer



CheckSight: HW resource conflict caused User signal 0 to be activated without user intervention. Fixed.

Version 1.00.094

ImageProcLib



Bg fixes in GreenToGreyscale and NearestNeighbour Bayer decoding methods.

Simplon GenTL Producer



Win7 filter driver (NDIS6): Was not possible to recover from buffer overflow, no more image acquired when going out of buffers. Fixed

Simplon API



Introduced the IsAvailableByName() and IsImplementedByName() functions.

Version 1.00.088


Simplon GenTL Producer



CheckSight: Added the possibility to trigger a timer via User Output.



Version 1.00.087

Simplon API

	Added new constants for new features (Strobe)
---	---




Version 1.00.086

Simplon GenTL Producer


	CheckSights: Completed LUT / White balance handling
	CheckSight2: Added Strobe control

Version 1.00.085

Simplon GenTL Producer


	Windows XP Filter driver: Fixed misbehavior during network configuration
	Black level values are scaled wrong in readback. Fixed
	Auto features (gain/exposure/black level) keep their last value when disabling automatic mode.

Simplon API

	Fixed various inconsistencies around the UniProcessing, namely the LUT behavior.
---	--



Version 1.00.084

Simplon GenTL Producer

	Linux adaption. No functional change
---	--------------------------------------


Version 1.00.083

Simplon GenTL Producer






	LvGev: channel threads might be terminated before natural completion possibly not releasing owned resources. Fixed.
	Filter Driver: Prevented BSOD on client application unexpected termination (crash/process kill) while acquiring from camera.

Version 1.00.082


Tools

	The GigE Vision Configuration tool now properly displays devices used by another application with different icon
---	--

Simplon GenTL Producer



 	GenTL: Camera IP address properly updated upon rescan.
 	CheckSight: Fixed BUFFER_INFO_PIXELFORMAT_NAMESPACE query.
	Fixed device discovery and ForcelP issues in special network configurations.

Simplon API

	Simplon Explorer: Fixed incomplete display of tiles after acquisition stop.
---	---




Version 1.00.081

Simplon GenTL Producer

 	Filter driver: Fixed troubles with Atheros L1 with enabled jumbo frames.
---	--



Version 1.00.080

Simplon GenTL Producer



 	Packet size determination, limited max packet size according to NIC MTU settings in order to avoid possible network misbehaviours when producing packets exceeding NIC MTU.
	CheckSight2: Fixed bad pixel values in Mono12 format.

Version 1.00.079

Tools

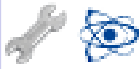

 	Last version was not functional under Linux
---	---

Simplon GenTL Producer



	CheckSight1/2: Upper entries for 12bit LUT were not accessible. Fixed.
	CheckSights: SW triggers immediately after start of acquisition might be ignored or provoke corrupted images. Fixed.

Version 1.00.078

Simplon GenTL Producer



	Repeated start/stop acquisition was changing exposure time on CCD sensors. Fixed.
	Max streaming packet size could not be determined after a stream acquisition. Fixed

Simplon API


	Simplon Explorer: Added button to search currently selected feature in the selected PDF manual (Windows only, Adobe Acrobat Reader must be installed). Incomplete images are announced besides the chunk data label.
	Introduced LvBuffer_UniImageOffset, added to source code templates. Fixed bug causing that code for find by TLType on CheckSight was generated with an empty string. Fixed bug in source code generator, causing the correct target folder was not opened when it was changed by user.

Version 1.00.077

Simplon GenTL Producer

	CheckSight2: 8bit monochrome LUT fixed
	Win XP: PC freeze on acquisition when filter driver in use. Fixed.

Simplon API

	Updated templates for source code generator: Enhanced the OpenCV templates, now the samples support most common pixel formats. In all samples added #error line to the code in case the "all" or "streamable" option is used for feature settings - this should notify the user he/she should really review this part of code before compiling it.
---	--

Simplon Setup

	Fixed the setup of the Filter Driver for x64 operating systems.
---	---

Version 1.00.076

Simplon GenTL Producer



Removed various resource/memory leaks

Version 1.00.075

Simplon GenTL Producer



Windows Vista/7: Problem with acquisition when filter driver is installed but not enabled on a specific adapter. Result was no error but no image received. Fixed.

Simplon API



In the templates for the Source Code Generator was fixed an issue, causing the project converted to Visual Studio 10 was not able to run x64 application from the IDE.



Simplon API: The ParseChunkData() function now checks the ChukDataID value (if it is provided) for additional detection of changes in the chunk data structure.



Redesigned the Tile display mode. In Simplon Explorer clicking on a tile now leads to a full size image display. Added GetLastPaintRect() function to API. Removed the LvAviSaver module from header files and documentation.

Simplon Setup



The filter driver update was not reliable, now the filter driver is first uninstalled, then new version of the driver installed.

Version 1.00.074

Tools



Fixed bug preventing the Simplon Explorer and other tools to run on some systems because it failed to find some of the required libraries.

Simplon GenTL Producer




Feature Tree: Added LUT reset





CheckSight1/2: Enabled White balance procedures.

Simplon Setup

	Added installation of Simplon adapter for Cognex software
---	---


Version 1.00.072

Simplon GenTL Producer

	Fixed a bug in CheckSight device driver, which was preventing the driver to compile with the latest kernel versions.
	CheckSight: Fixed inconsistency in image format parameters (offset X, Y) when reducing sensor readout dimensions.




Version 1.00.071

Simplon GenTL Producer


	CheckSight2: Device features according FW version
---	---

Version 1.00.069

Simplon GenTL Producer


	CASMA: Added LUT block read/write handling
	Filter Driver: Win32 applications can now use x64 filter driver
	Win32 apps may provoke BSOD when using filter driver under Win64. Fixed.

Simplon API


	Fixed bug in Simplon .Net Class Library, causing that some output parameters were not correctly returned. For example the GetFeatureByName() function did not return the proper feature ID for other modules than LvModule.
---	---

Version 1.00.068


Simplon GenTL Producer

	NDIS6 filter driver included
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Simplon API



	Fixed bug in source code generator, causing the enums were set by the string values and not by Simplon constants (which also caused enums were not included at all in source code for PicSight Smart).
---	--

Simplon Setup


	Fixed a bug in Simplon Log system, which could under certain conditions cause a crash at the application exit.
---	--

Version 1.00.067

Tools



 	Fixed bug that could cause the GigE Vision config tool crash when verifying an invalid IP address
---	---

Simplon API

	The number of tiles is now automatically limited to the number of postponed buffers.
---	--





Version 1.00.066

Simplon GenTL Producer

 	CheckSights: XML Updated
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Version 1.00.065

Simplon GenTL Producer

 	All CheckSights: Fixed problem causing system to freeze when short in acquisition buffers.
 	CheckSight: Fixed wrong polarity for opto input when used as frame trigger.



Version 1.00.064

Simplon API

	Remote device XML - workarounds to overcome flaws in GenApi by autofeatures.
---	--


Version 1.00.063

Simplon API





	Simplon Explorer: feature edit controls are now also updated when the controlled feature gets changed in the time of editing (happens for example by self-clearing enums).
	Fixed bug causing the white balance may not be applied when no Bayer decoding is active. Fixed failure in LvDeviceSaveSettings(). Fixed small issues in Simplon running on CheckSight

Version 1.00.062

Simplon GenTL Producer








	GenTL: Read/WritePortStacked were not properly exported. Fixed
---	--

Simplon API


 	G32: Improved image quality on high gain values
 	P142A: increased framerate


Version 1.00.061

Simplon GenTL Producer

  	CheckSight may reboot on closing .NET application (problem reported using Halcon 10.0.1) . Fixed
 	CheckSight: Fixed LUT initialization. In some cases, the LUT was not properly initialized.
 	CheckSight/CcheckSight2: Fixed cascading Timer/Counter.

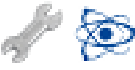
Simplon API

	<p>Simplon API: UniLUT now available also via LUT features in the same way as remote device LUT.</p> <p>Added new Device features: DeviceEndiannessMechanism, LvGevFindMaxPacketSize, LvGevPacketSizeValue, LvGevTestPacketSize, LvGevPacketSizeTestSuccess, LvGevCCTT, LvGevCCRC, LvUniLUTMode, LvUniLUTSelector, LvUniLUTEnable, LvUniLUTIndex, LvUniLUTValue, LvUniLUTValueAll</p> <p>Device features marked as obsolete: GevFirstURL, GevSecondURL, LvSensorExposureMode, LvGevFindMaximumPacketSize, LvGevMaximumPacketSize, LvUniResolvePixelFormat, LvExposureMode_TriggerWidth</p>
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	To Image Processing Library added functions for accessing single LUT value.
---	---

Version 1.00.060

Simplon GenTL Producer




	CheckSight Frame rate handling fixed.
---	---------------------------------------

Simplon API

	Bugfix in Simplon Explorer source code generator - float value entered manually (not by slider or buttons) was not recorded to history.
	Fixed bug in source code templates for OpenCV samples for Linux.




Version 1.00.059

Simplon API


	- Simplon header files updated to fully comply to plain C compilation - Updated source code generator and templates. Added a solution for the case the camera autoloads its configuration from file after connect.
	Added Source Code Generator template for Linux application based on Qt Improvements in all Linux sample templates
	Added Source Code Generator template for Linux application using OpenCV library Small improvements in other Linux templates


Version 1.00.058

Simplon GenTL Producer

	CheckSight: Fixed dimension limits when AOIMode=Manual. Wrong limits were causing corrupted acquisitions when changing OffsetX/Y
	Fixed access mode of the CheckSight user-set files, so that they work reliably in multi-user environment.
	Fixed possible hang when starting acquisition from a GigE Vision camera Various minor fixes and improvements in Linux version of Simplon








Simplon API

	Added option to Simplon Explorer: Automatically save camera settings on disconnect and load back when it is connected again. FPS now measured with more precise timer.
---	---

	Chunk data display updated, fixed occasional 0 shown in some chunk data.
---	--



Version 1.00.057

Simplon GenTL Producer

 	PicSight Firmware version sometimes wrongly displayed in updater tools. Fixed
	GetNumPortURLs never return error but zero as number of URLs in case no XML is available.
 	PicSight: Fixed access to RGB LUT.
 	CheckSight: exposure adaptations on framerate change


Version 1.00.054

Simplon GenTL Producer


 	PicSight: Double received events, due to resend requests, are now filtered and not delivered to consumers.
---	--

Version 1.00.053


ImageProcLib

	Added support for RGB formats in LvipApplyLut() and LvipApplyColorCorrection() (besides the originally supported BGR formats)
---	---

Simplon API


	<ul style="list-style-type: none"> - Updated the behavior for White Balance calculation when HW LUT is used. - Simplon Explorer bugfix - when polling was switched off, the white balance calculation disabled the white balance reset command
---	--

Simplon Setup




	Fixed failure to uninstall previous version when Simplon was installed to a different folder. Enhanced setup logging.
---	---

Version 1.00.052



Documentation

	The HTML Help files generated in the Simplon documentation failed to support full text search. Now fixed and available again.
---	---

Simplon GenTL Producer


	Packet size calculation performed on device open when the following ini entry is set [GenTL.Device.GEV] TestPacketSizeOnOpen
	Added Device features for GVCP timeout and retry count
	Fixed Manifest feature incompatibility. Requires NXSDS2 >=2.00.051

Simplon API

	Added support for variable pixel format.
	<p>Simplon: The delay-loading of lv.simplon.display.dll could cause dropped images at startup, fixed.</p> <p>Simplon Explorer:</p> <ul style="list-style-type: none"> - Enhanced the Statistic tab in - Added possibility to save all images - Optimized image skipping in display when the live is too fast. - Removed the option for image skipping from lv.simplon.ini - Changed all open/save dialogs to a faster version


Version 1.00.051

Tools



	GigE Vision Configuration Tool can now change the Boot Switch of the camera (Pure GigE Vision versus Legacy mode)
---	---

Version 1.00.050

Simplon GenTL Producer





	Disabled packet size arbitration as it may cause misbehaviour on certain NICs.
---	--

Simplon API

	G43A: Improved image quality. Prevent vertical stripes in trigger mode on certain gain values.
	Added syntax highlighting to Explorer source code snippet.



Version 1.00.042

Simplon GenTL Producer

 	PicSight: It was not possible to change the Heartbeat timeout. Fixed.
 	PicSight: Determination of max packet size at camera connection.


Version 1.00.041

Simplon GenTL Producer


 	Genicam exceptions and frame rate drop on repeated start/stop acquisition cycles. Fixed.
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Version 1.00.040


Simplon GenTL Producer

	Code review to eliminate resource leaks.
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Simplon API





 	Distributed Simplon .Net Framework 4.0
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Simplon Setup

	<ul style="list-style-type: none"> - Added automatic installation of filter driver - Bugfix: on Win Vista nad Win 7 the silent installation did not work properly
---	---




Version 1.00.039

Simplon GenTL Producer




 	Increased logged information about loaded filter driver.
 	PicSight extended chunk mode reported wrong image info when filter driver is in use. Fixed.

Version 1.00.038

Simplon GenTL Producer


	GenTL 1.2: GCGetPortURLInfo/GCGetNumPortURLs/GCReadWritePortStacked
	CheckSight: User sets are now specific to the mounted sensor to prevent incompatible settings.
	Fixed bug potentially causing device access problems when using from multiple user accounts.

Simplon API


	Upgraded GenICam GenApi to version 2.1.1
	Fixed wrong names by LvLUTMode, LvBalanceRatioSelector, LvBalanceWhiteAuto, LvGevDeviceClass, LvGevIPConfigurationStatus and LvGevSCPDirection enums (were accidentally prefixed like non-Net constants and were causing compile error in generated source code).
	Simplon API: Added SetInt(), GetInt() and GetIntRange() function to all APIs for convenience - this is equal to SetInt64(), GetInt64() and GetInt64Range(). The SetInt() should be now preferred instead of SetInt32() to avoid possible sign problems with 32-bit unsigned int parameter.

Version 1.00.037

Simplon GenTL Producer



	PicSight: Open device takes now in account the open flags (exclusive/control) and returns error when not supported.
---	---

Simplon API







	- Simplon API - added a set of new Device features and enum constants to reflect the current status of firmware, a few constants marked as obsolete. Enhanced the Renderer features.
---	--

Version 1.00.036

Simplon GenTL Producer



	PicSight Gige: LUT values correctly accessed through direct index and LUT-ValueAll
	LvGev: Use of GigeVision 1.2 features to prevent firewall issues on streaming and message channels

Simplon API

	Fixed CPP code generator templates which did not compile on some systems
	<ul style="list-style-type: none"> - Simplon Explorer: Fixed bug in source code generator - the Enums for which a Simplon constant was not defined were written incorrectly in the source code. - Simplon Renderer module - enhanced the functionality of display modes.
	<ul style="list-style-type: none"> - Simplon Source code generator: Win01 templates for CPP and PlainC modified - added support for setting white balance and saving it to INI file. - Simplon Explorer - changes in some features are now reflected in GUI (Display Mode, Update Device List)
	The Source code generator now offers as the default option the History (of feature changes) for the code generation. Only for GigE cameras with FW < 2.00.039 it uses as default the original Streamable option, because the old FW did not reset the camera parameters after its connection.
	In Simplon Settings the former 2 options "Use Queue" and "Buffered Logging" were unified into one: "Disable All Buffering".
	Fixed a bug causing a crash in Simplon Explorer, when the device was receiving the user log from a smart camera, then it was closed and reopened.








Version 1.00.035

Simplon API


	Simplon code generator: Fixed bug causing compilation errors in .Net code when a Simplon predefined constant was not available for the feature.
	Enhanced support for variable image size in Simplon API and Simplon Explorer.

Version 1.00.034

Simplon GenTL Producer



 	CheckSight: Support for User Sets
  	LvLensControlTargetApproach show only options effectively available
 	CheckSight: Fixed IO polarities to match PicSight's polarities

Simplon API


	Simplon Explorer: fixed bug in source code generator - when the history was used for the code generation, enum values could be wrongly set in the generated code.
---	---

Version 1.00.033


Documentation

	Added chapter about using our cameras in 3rd party libraries (in the hardware manuals)
	Chapter about features of the Simplon GenTL Producer added to the hardware manuals

Simplon GenTL Producer






	EventGetDataInfo size parameter now returns value according to GenTL specifications.
---	--

Simplon Setup



	The Linux installers were not generating the required empty directories in /var/opt/simplon area.
---	---

Version 1.00.032

Simplon GenTL Producer


	Fix to the random system hangs during image acquisition (especially with faster sensors).
	CheckSight. Fixed image corruption on stop acquisition (few pixels in top left corner were not belonging to the image)
	CheckSight: Handling of line debouncing parameters
	CheckSight: Fixed startup state of output lines, they are now set in the same way as their boot up state.
	CheckSight: Fixed inconsistency with chunk mode, when no field is enabled the only image field is now transferred instead of no chunk, same as PicSight.

Simplon API

	Reduced maximum readout height to a multiple of 4 because of bayer pattern: P32, P33, P34, P52, P83, G32
	R312AB: fixed binning/decimation




Version 1.00.031

Simplon API




	Simplon Explorer: added source code templates for QT 4.5 sample applications
---	--

Version 1.00.030

Simplon GenTL Producer




 	PicSight GigE: Displayed IP updated on rescan
	Cameras were still reported (as unavailable) when disconnected. They are now correctly listed/not listed when present/not present.

Simplon API



	Source code templates for OpenCV samples: fixed problem with RGB pixel format and added OpenCV exception handling.
	Simplon Explorer: added source code template for a Windows application, which does not use a callback function; instead it picks images in the main thread on a timer.
	Simplon API: Enhanced the ParseChunkData() function - now automatically forced to decode the layout on next buffer, if the decoding of the layout on the current buffer fails.

Version 1.00.029

Simplon GenTL Producer


  	Fixed crash on device rescan while camera(s) in use
---	---

Simplon API

 	G32: Fix exposure range in trigger mode
---	---


Version 1.00.026

Simplon API


	Simplon Explorer: fixed bug causing the IP addresses could not be set.
---	--

Version 1.00.025

Simplon GenTL Producer

	The Setup now installs also the PDB files for MS debugger to Bin\Debug folder.
---	--

Simplon API




	<p>Simplon Explorer:</p> <ul style="list-style-type: none"> - added possibility to save/load the whole configuration - to control the acquisition on multiple cameras with one click - issue the SW trigger periodically by timer
---	--

Version 1.00.024

Simplon GenTL Producer


	CheckSight: UserOutput handling.
---	----------------------------------

Simplon API

	To all templates added FlushQueue(AllDiscard) before the buffers deletion - to satisfy the GenTL standard.
	Simplon API adapted so that the stdint.h file need not be distributed.
	Simplon .Net Class Library: added missing constants to enums.


Version 1.00.023

Simplon GenTL Producer

	PicSight: Restarting the acquisition may produce a number of corrupted images on start when not using filter driver. Fixed.
---	---







Version 1.00.022

Simplon API





	G43AB: fixed vertical stripes at reduced readout width
---	--

Version 1.00.021




Simplon GenTL Producer

  	Windows x64: Use of GEV filter driver
 	CheckSight: Added retrieve of IO line status
	Fixed exception on lvexplorer exit

Simplon API






 	Increased minimum readout height to 4 lines, for CheckSight CCD color sensors.
	Simplon Explorer: added I/O dialog for easy monitor and manual control of input and output lines.
	Simplon Explorer: <ul style="list-style-type: none"> - Redesigned the chunk data display in the line, to support string chunks, integer selectors and unknown chunks. - The FW checking now offers immediate switch from 1.x to 2.x and reboot. - Fixed bugs appearing when working with a smart camera in the feature locked mode.

Simplon Setup


  	Filter driver 64bit included in setup. It needs manual installation as for 32bit driver.
---	--

Version 1.00.020

Simplon GenTL Producer


  	Updated buffer info according GenTL 1.2
 	Updated event log handling according GenTL 1.2

Simplon Setup


	Included sample script for Halcon
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Version 1.00.019

Simplon API




	Added FindBy_Any option for Interface and Device search functions.
---	--

Simplon Setup


	Simplon static XML files separated from XML cached files (are now installed to a different folder).
---	---

Version 1.00.018

Simplon API










	Simplon Explorer: now opens the camera in the LvDeviceAccess_Control mode (previously in the LvDeviceAccess_Exclusive). The same applies to all source code templates.
	Simplon Explorer: fixed a bug causing a crash when editing an integer feature with a hexadecimal representation.
	Simplon Explorer: Added notification about obsolete FW on Leutron GigE cameras (optional). The timeout on CmdExecute changed from 5 seconds to infinite (for Leutron cameras) + added possibility to set the timeout in the lv.simplon.ini file.

Simplon Setup















	The Simplon Setup now installs the stdint.h file not renamed. Originally this file was installed as renamed to stdint_.h, and required the user to rename it in case this file was not already available by his compiler.
---	---

Version 1.00.017

Simplon GenTL Producer





 	CheckSight: Exposure limits updated with change of image formatting
 	CheckSight: LUT Handling: LUT access selection now based on current pixel format.
  	CheckSight: RS232 was not receiving characters. Fixed.
 	CheckSight: HW driven frame rate control.

Simplon API


	Simplon Explorer: Fixed the problem with display of images when NumberOfTiles >= NumberOfBuffers. Fixed a rounding problem by the int/float value slider.
	Simplon Explorer: The functionality of the code for chunk data generated in the project Generation Wizard was dependent on the previous camera status. The templates were redesigned to avoid this problem.
  	Fix firmware upgrade tool
 	G43AB: Fix image corruption in black areas at lower readout width and manual blacklevel
	Simplon Explorer: fixed bug in the display of chunk data in the image window.
	Simplon Explorer - fixed issue with integer edit box (wrong usage of nim/max), fixed display problem after camera reactivation
 	R502: fixed cropped images when changing sensor readout from small ROI to full size.
	Simplon API: Added the GetLastErrorMessage function, providing better error diagnostics.
	Simplon C++ Class: Added the LvException class and optional possibility to switch on the conversion of error states to C++ exceptions. Simplon .Net Class Library: The LvException class now provides the Number() method, returning the LvStatus, which caused the exception.
	Simplon Explorer: Changed the way the tree of devices is built from multiple GenTL producers - now each producer has own root item. Simplon Settings: Added button for clearing file/folder name.

Version 1.00.016

Simplon GenTL Producer

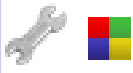
  	Connecting cameras over multiple network interfaces possible under Linux The lv.ipconf tool for Linux now discovers also cameras configured for incorrect subnet
	Fix detection if lost packets in all cases

Simplon API






	Simplon Explorer: The previous image display redesign caused sometimes 100% CPU load. Now implemented differently. Simplon Explorer: Fixed problem with the display of incomplete images (the option to display them did not work). Simplon API: Fixed problem with the LUT conversion to big endian for GigE cameras.
---	--

Version 1.00.015

Simplon GenTL Producer


	Initialize network library explicitly to avoid GenTL library load problems.
---	---

Simplon API

	Simplon Explorer: redesigned the implementation of buffer painting, the previous solution sometimes caused the image painting loop was broken and images stopped to be displayed until the camera was disconnected and connected again.
	Fixed GigE firmware update on Windows 7
	Implemented FindBySerialNumber and FindByUserID options for the LvInterfaceFindDevice function. Added FindByUserID to source code generator templates.
	Added the DontPaintIncomplete flag to LvRenderer - disables painting of incomplete images. Simplon Explorer now uses this flag as an option inSettings to avoid painting incomplete images.
	R502: fixed hardware triggering


Version 1.00.014

Simplon API

	Added support for setting the HW LUT by LUTValueAll on GigE cameras.
---	--




Version 1.00.012

Simplon GenTL Producer



	CheckSight: Added HW trigger polarity handling
---	--

Version 1.00.011

Simplon API




	R312AB: synchronized exposure time changes in triggered mode. Limited exposure time range.
	R502: global reset support
	R502: inverting pixel clock

Simplon Setup

 	x64 distribution was incomplete
---	---------------------------------



Version 1.00.010

Simplon API


 	R502B: fixed frame timing which caused wrong bayer presentation
	CheckSight: Support for automatic black level

Version 1.00.009


Simplon GenTL Producer

 	R502: increased framerate to 14 FPS at full resolution
---	--

Simplon API


	QT applications available also for the x64 platform. Source code generator templates modified to support the x64 platform.
---	---

Simplon Setup

	Finalized the installation of 64-bit Simplon, new dialog for selecting the platform. Filter driver not yet available.
---	---




Version 1.00.008


Simplon API

	Simplon Explorer - changed the behavior of the image window (not staying on top), added the handling of the <Enter> key in the Send command combo box. Source code generator: templates extended to provide code for chunk data setting and processing. Enhanced error handling in source code.
---	--


Version 1.00.007

Simplon GenTL Producer

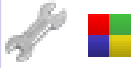
  	PicSight/CheckSight: Enabled strobing on frame rate controlled acquisitions
---	---

	NickName and Serial number can be retrieved by Gige interface without opening the camera.
---	---

Simplon API



	Fixed bug in Simplon Explorer causing the Info tab was disabled when SysLog was not enabled in Simplon Settings.
---	--

Simplon Setup


	Inclusion of 64bit DLLs for beta testing.
---	---

Version 1.00.006

Simplon API



	Simplon Explorer: added a tab for ASCII Cmd Send/Recv + Smart App Event monitor, Simplon: implemented the Timeout parameter by the LvCmdExecute() function.
	Simplon Explorer: fixed bug by the image process&display skipping when there are too many buffers waiting in the output buffer queue.

Simplon Setup

	Added the DisableFileLog option to LvSetup.ini.
---	---



Version 1.00.005



Simplon API

	Simplon Explorer - fixed 2 bugs with the repaint of images.
	Added shortcut keys to Simplon Explorer. Added first beta version of Simplon .Net Class Library

Version 1.00.004


Simplon GenTL Producer

	R502 frame timing fixed
	CheckSight: New chunk layout including availability bits.


	CheckSight Frame rate handling was not properly working. Fixed.
	Fixed GetPortURL for non existing XML

Version 1.00.003

Simplon API




	To Simplon Explorer added a possibility to save the image buffer to a plain BIN file. Changed the type by SetEnum/GetEnum from int32_t to LvEnum.
---	--

CASM Firmware



	Added firmware upgrade tool for streaming module
---	--

Version 1.00.002

Simplon GenTL Producer

	Halcon crashed on querying available devices. Fixed.
	CheckSight: LUT updated properly on change
	CheckSight: Programmable frame rate

Simplon API

	For the PicSight Smart source code templates the Simplon Explorer now determines the set of available API functions from the currently installed version of Smart SDK (NX-SDS). The "Open target folder" button opens a command line window in the target folder and runs automatically the LvSetup.bat file.
	Fixed memory leak happening when pixel format was changed and UniProcessing was ON.


Version 1.00.000

Simplon API


	First official release
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Version 0.01.094

Simplon GenTL Producer



	CheckSight: Watchdog support
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Simplon API


	Added support for the LvFtrType_Buffer type. Updated WatchDog features.
---	--

Version 0.01.093

Simplon GenTL Producer



	CheckSight: Support for asynchronous reset and IOs for secondary acquisition path. Requires FW >=17-001
	CheckSight: Fixed mapping of frame trigger sources. It was hardcoded to TTL1 in previous versions.

Simplon API

	Source code wizard extended to support generation of source code for multiple cameras. Added templates for samples controlling 2 cameras concurrently.
---	--


Version 0.01.092

Simplon API

	Simplon API: Added new LvDevice constants and enumerations. Simplon Explorer: updated camera tree behavior and icons
	Fixed a bug, causing the Info panel in Simplon Explorer was sometimes hidden in the multiple camera mode.









Version 0.01.091

Simplon API





	Added templates for source code generator for the usage of the OpenCV library in Windows.
---	---

Version 0.01.090


Simplon GenTL Producer

  	Filter driver correctly reports incomplete frames.
   	Driver related threads were running at normal priority possibly causing misbehavior on system load.
	Multiple instances allowed. Locking mechanism moved to single device level.

Simplon API




	Simplon Explorer redesigned to support running multiple cameras concurrently. The original design still available as an option in Settings.
	Fixed a bug in the source code generator, causing wrong code generation from a template under a certain combination of options (nested IFs incorrectly parsed in the templates).
	Simplon Explorer: Added icons by cameras, indicating the access status of each camera. Added link to PDF manual as help and link to a web page. Added a Statistics tab.
	Fixed issues in the Renderer tile mode in Simplon API.

Simplon Setup



	Setup updated so that it installs properly 32-bit binaries on an x64 system.
---	--


Version 0.01.089

Simplon GenTL Producer

 	CheckSight: Enabled Long time exposure mode
	Redirect lvgev.log to common lv.simplon.log





Simplon API

	Image processing library API changed (#defines to enums)
	Simplon Explorer: the list of chunk data values displayed on the line above the image is now built dynamically, from chunk data actually available.




	Fixed 2 bugs in the source code generator - missing were selectors in other than DeviceRemote group, code for some read-only features was not shown.
---	--

Version 0.01.088

Simplon GenTL Producer



	CheckSight: Enabled ManualAOI mode.
	CheckSight: Support for Decimation
	CheckSight: Enabled autoexposure for sensors providing it.
	CheckSight: Fixed binning/decimation. Was causing crash/hang when enabled.

Simplon API



	Simplon Explorer: Added persistence of the "Source code" menu items.
	Simplon Explorer: unsuccessful feature write operations are indicated by changing the value color to red and adding a label: (write failed!).
	Small bugfixes in Simplon Explorer (resizing limits of image, 5% and 10% feature increments and decrements, hexadecimal number edit, icons changed).

Version 0.01.087


Simplon GenTL Producer

	PS-Gige low buffer handling reviewed.
	Fixed issues in Linux version: Logging file access rights in multi-user environment. Problems with GigE camera discovery, resolved on single network card configurations, pending for multiple NC configuration.

Simplon API


	Redesigned the way the camera is connected in Simplon Explorer (now the tree of cameras is available in a tab). Reorganized buttons and icons.
	Fixed issues in Linux version: Fixed crashes when displaying images on 24-bit display configuration Fixed output to TIFF and JPEG Fixes in the source code generator outputs

Simplon Setup


	<p>Improvements to Linux Simplon setup (RPM, DEB). Added post-install steps to update environment and configure dynamic linker. Included lv.ipconf tool.</p>
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Version 0.01.084




ImageProcLib

	<p>Added functions for saving and loading JPEG images.</p>
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Documentation


	<p>Initial version of CheckSight user manual available</p>
---	--

Simplon API


	<p>Added API for polling the non-cached features - LvStartPollingThread(), LvStopPollingThread(), LvPoll().</p> <p>Added info features for obtaining the cached status and recommended polling time.</p> <p>In Simplon Explorer the features are polled with the frequency of 1 second. Polling can be switched off in the Settings dialog. Furthermore added an option to switch on chunk data features at camera open to Simplon Explorer (before it was switched on always).</p>
	<p>Simplon Explorer: Added possibility to use C escape sequences in string features (to be able to express non printable characters in RS232 commands); added "Update feature tree" button for refreshing the whole tree.</p>
	<p>Implemented functions for saving and loading JPEG images. Added JPEG format as option to Simplon Explorer Save Image dialog.</p>

Version 0.01.082

GigE-Vision

	<p>GigE-Vision config tool: changing IP configuration, UserID and updating Pic-Sights</p>
---	---

Simplon GenTL Producer

	<p>CASMA1: Changed novram search order</p>
---	--

Version 0.01.081

Simplon GenTL Producer



Fixed CASMA Timer/IO setup after FPGA change (FW12)

Version 0.01.080

ImageProcLib



Fixed overflow in gain and offset calculation in LUT functions.

Simplon GenTL Producer



CASMA RS232 support

Version 0.01.079

Simplon GenTL Producer



Changed CASMA name to official CheckSight

Simplon API



Added the display of the LUT to Simplon Explorer
Added persistence to expand/collapse states of tree nodes when switching between levels.

Version 0.01.078

Simplon GenTL Producer



Allow multiple, nested InitLib/CloseLib


Simplon API




Simplon Explorer: added the Settings dialog, the feature tree is not expanded by default, the last used camera can be automatically open.

Version 0.01.076

Simplon API


	Simplon Explorer: cameras made sorted alphabetically, added button for SW trigger, added saving to BMP and TIFF formats.
---	--

Simplon Setup

	Fixed problem with creating the GENICAM_GENTL32_PATH and GENICAM_GENTL64_PATH environment variables.
---	--


Version 0.01.074

Simplon API

	Changed name of features: LvTimestampsResetMaskValueAll->LvImageStampsResetMask, LvTimestampsResetMaskSelector->LvImageStampSelector, LvTimestampsResetMaskValue->LvImageStampResetEnable. Implemented mechanism of backward compatibility with old features.
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Version 0.01.073

Simplon API

	Fixed bug in the source code generator causing uncompileable code for enum entries, for which a predefined constant did not exist. Fixed bug causing a camera without defined vendor could not be open.
---	--



Version 0.01.069

Simplon API

	Added constants for LvVariablePayloadSize, LvSerialPortxxx, LvSmartAppExitEvent, renamed some LvChunk constants to Chunk, redefined Line constants.
	Simplon Explorer now handles the IsDone() for command features - a hour glass cursor is displayed during the wait and other features in the tree are not clickable during the wait.
	Added 2 new native functions: LvSystemFindInterface() and LvInterfaceFindDevice(). Updated Simplon Explorer source code generator to offer usage of these 2 functions.
	Th LvGetEnumStrByVal() was not accepting NULL for symbolic name - fixed.


Version 0.01.066

Simplon API

	Filter driver: fixed problem on acquisition stop that could cause BSOD
	Added support of "Plain C for PicSight Smart" to the source code generator in Simplon Explorer.


Version 0.01.065

Simplon API

	The set of constants for features and enum entries redefined - now constants are available for all Leutron features. Updated source code generator, now shows code also for System, Interface, Stream and Renderer modules.
---	---


Version 0.01.063

Simplon API

	Simplon Explorer: The feature trees separated into tabs. Simplon API: Added support for Simplon features from XML.
--	---



Version 0.01.061

Simplon API

	Simplon Explorer: Added Feature Find dialog and Update Camera(s) command. Enlarged icons. Fixed bug causing a crash when displaying info for enums with large description.
---	--

Version 0.01.060

Simplon API


	- In Simplon Explorer fixed bug with the wrong colors of some read-only items.
	- Added new GUI types: LvFtrGui_IpV4Address, LvFtrGui_IpMacAddress. For features with this GUI type can be used LvSetString() and LvGetString() - In Simplon Explorer used new GUI types - IP and MAC adresses now displayed naturally.

Version 0.01.056



Documentation

	The introductory manual "Getting Started Simplon" available
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Simplon GenTL Producer


	Add support for GEV 1.1 and 1.2
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Simplon Setup

 	Linux installer for Simplon is available in rpm, deb and tar.gz formats.
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Version 0.01.054

Simplon API

	The buffer handling in the API was changed so that the buffers are treated in the same way as System, Interface, Camera, ... objects. Some functions were renamed as they now belong logically to the the Buffer object, not to the Stream.
--	---


Version 0.01.049

Simplon GenTL Producer

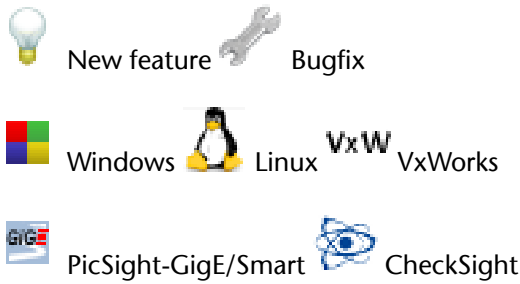
 	Support for LV Atom-based Streaming Module (CASMA)
	Device handle is now different from remote device handle as requested by GenTL specifications.

Version 0.01.044

Simplon GenTL Producer


	Removed pre-SenIf support. Obsolete lv.camdef.dll / lv.camdef.dat
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2. Release notes for Simplon, sorted per product




GigE-Vision

Version 0.01.082


	GigE-Vision config tool: changing IP configuration, UserID and updating PicSights
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ImageProLib


Version 1.00.094

	Bg fixes in GreenToGreyscale and NearestNeighbour Bayer decoding methods.
---	---


Version 1.00.053

	Added support for RGB formats in LvipApplyLut() and LvipApplyColorCorrection() (besides the originally supported BGR formats)
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Version 0.01.084


	Added functions for saving and loading JPEG images.
---	---

Version 0.01.080

	Fixed overflow in gain and offset calculation in LUT functions.
---	---

Tools

Version 1.00.082

	The GigE Vision Configuration tool now properly displays devices used by another application with different icon
---	--

Version 1.00.079



Last version was not functional under Linux

Version 1.00.074



Fixed bug preventing the Simplon Explorer and other tools to run on some systems because it failed to find some of the required libraries.

Version 1.00.067



Fixed bug that could cause the GigE Vision config tool crash when verifying an invalid IP address

Version 1.00.051



GigE Vision Configuration Tool can now change the Boot Switch of the camera (Pure GigE Vision versus Legacy mode)

Documentation

Version 1.00.052



The HTML Help files generated in the Simplon documentation failed to support full text search. Now fixed and available again.

Version 1.00.033



Added chapter about using our cameras in 3rd party libraries (in the hardware manuals)



Chapter about features of the Simplon GenTL Producer added to the hardware manuals

Version 0.01.084



Initial version of CheckSight user manual available



Version 0.01.056




The introductory manual "Getting Started Simplon" available

Simplon GenTL Producer


Version 1.00.102

	Linux: CBCMA novram could not be read properly. Fixed
	CheckSight2: Support for G123


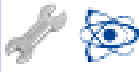
Version 1.00.099

	CS2 support for final Flash ring 111
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Version 1.00.098

	CheckSights: UserSet does not save correctly I/O out settings. Fixed
---	--


Version 1.00.097

	Linux adaption
	CheckSights: Some sensors may get triggered during acquisition configuration. Fixed.


Version 1.00.096

	All CCD sensors not functional in 1.00.095. Fixed
---	---


Version 1.00.095

	CheckSight: HW resource conflict caused User signal 0 to be activated without user intervention. Fixed.
---	---



Version 1.00.094

	Win7 filter driver (NDIS6): Was not possible to recover from buffer overflow, no more image acquired when going out of buffers. Fixed
---	---




Version 1.00.088

	CheckSight: Added the possibility to trigger a timer via User Output.
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Version 1.00.086

	CheckSights: Completed LUT / White balance handling
	CheckSight2: Added Strobe control



Version 1.00.085

	Windows XP Filter driver: Fixed misbehavior during network configuration
	Black level values are scaled wrong in readback. Fixed
	Auto features (gain/exposure/black level) keep their last value when disabling automatic mode.




Version 1.00.084

	Linux adaption. No functional change
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Version 1.00.083

	LvGev: channel threads might be terminated before natural completion possibly not releasing owned resources. Fixed.
	Filter Driver: Prevented BSOD on client application unexpected termination (crash/process kill) while acquiring from camera.


Version 1.00.082


	GenTL: Camera IP address properly updated upon rescan.
	CheckSight: Fixed BUFFER_INFO_PIXELFORMAT_NAMESPACE query.
	Fixed device discovery and ForcelIP issues in special network configurations.

Version 1.00.081



	Filter driver: Fixed troubles with Atheros L1 with enabled jumbo frames.
---	--

Version 1.00.080



	Packet size determination, limited max packet size according to NIC MTU settings in order to avoid possible network misbehaviours when producing packets exceeding NIC MTU.
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	CheckSight2: Fixed bad pixel values in Mono12 format.
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Version 1.00.079

	CheckSight1/2: Upper entries for 12bit LUT were not accessible. Fixed.
	CheckSights: SW triggers immediately after start of acquisition might be ignored or provoke corrupted images. Fixed.


Version 1.00.078

	Repeated start/stop acquisition was changing exposure time on CCD sensors. Fixed.
	Max streaming packet size could not be determined after a stream acquisition. Fixed


Version 1.00.077

	CheckSight2: 8bit monochrome LUT fixed
	Win XP: PC freeze on acquisition when filter driver in use. Fixed.



Version 1.00.076

	Removed various resource/memory leaks
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Version 1.00.075

	Windows Vista/7: Problem with acquisition when filter driver is installed but not enabled on a specific adapter. Result was no error but no image received. Fixed.
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Version 1.00.074

	Feature Tree: Added LUT reset
	CheckSight1/2: Enabled White balance procedures.








Version 1.00.072

	Fixed a bug in CheckSight device driver, which was preventing the driver to compile with the latest kernel versions.
	CheckSight: Fixed inconsistency in image format parameters (offset X, Y) when reducing sensor readout dimensions.



Version 1.00.071

	CheckSight2: Device features according FW version
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
Version 1.00.069

 	CASMA: Added LUT block read/write handling
 	Filter Driver: Win32 applicatons can now use x64 filter driver
  	Win32 apps may provoke BSOD when using filter driver under Win64. Fixed.





Version 1.00.068

 	NDIS6 filter driver included
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Version 1.00.066

 	CheckSights: XML Updated
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Version 1.00.065

 	All CheckSights: Fixed problem causing system to freeze when short in acquisition buffers.
 	CheckSight: Fixed wrong polarity for opto input when used as frame trigger.


Version 1.00.062

	GenTL: Read/WritePortStacked were not properly exported. Fixed
---	--




Version 1.00.061

  	CheckSight may reboot on closing .NET application (problem reported using Halcon 10.0.1) . Fixed
 	CheckSight: Fixed LUT initialization. In some cases, the LUT was not properly initialized.
 	CheckSight/CkeckSight2: Fixed cascading Timer/Counter.





Version 1.00.060

	CheckSight Frame rate handling fixed.
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Version 1.00.058

	CheckSight: Fixed dimension limits when AOIMode=Manual. Wrong limits were causing corrupted acquisitions when changing OffsetX/Y
	Fixed access mode of the CheckSight user-set files, so that they work reliably in multi-user environment.
	Fixed possible hang when starting acquisition from a GigE Vision camera Various minor fixes and improvements in Linux version of Simplon




Version 1.00.057

	PicSight Firmware version sometimes wrongly displayed in updater tools. Fixed
	GetNumPortURLs never return error but zero as number of URLs in case no XML is available.
	PicSight: Fixed access to RGB LUT.
	CheckSight: exposure adaptations on framerate change


Version 1.00.054

	PicSight: Double received events, due to resend requests, are now filtered and not delivered to consumers.
---	--





Version 1.00.052

	Packet size calculation performed on device open when the following ini entry is set [GenTL.Device.GEV] TestPacketSizeOnOpen
	Added Device features for GVCP timeout and retry count
	Fixed Manifest feature incompatibility. Requires NXSDS2 >=2.00.051



Version 1.00.050

	Disabled packet size arbitration as it may cause misbehaviour on certain NICs.
---	--


Version 1.00.042

 	PicSight: It was not possible to change the Heartbeat timeout. Fixed.
 	PicSight: Determination of max packet size at camera connection.





Version 1.00.041

 	Genicam exceptions and frame rate drop on repeated start/stop acquisition cycles. Fixed.
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Version 1.00.040

	Code review to eliminate resource leaks.
---	--



Version 1.00.039

 	Increased logged information about loaded filter driver.
 	PicSight extended chunk mode reported wrong image info when filter driver is in use. Fixed.




Version 1.00.038

	GenTL 1.2: GCGetPortURLInfo/GCGetNumPortURLs/GCReadWritePortStacked
 	CheckSight: User sets are now specific to the mounted sensor to prevent incompatible settings.
 	Fixed bug potentially causing device access problems when using from multiple user accounts.




Version 1.00.037

 	PicSight: Open device takes now in account the open flags (exclusive/control) and returns error when not supported.
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Version 1.00.036

 	PicSight Gige: LUT values correctly accessed through direct index and LUT-ValueAll
	LvGev: Use of GigeVision 1.2 features to prevent firewall issues on streaming and message channels






Version 1.00.034

	CheckSight: Support for User Sets
	LvLensControlTargetApproach show only options effectively available
	CheckSight: Fixed IO polarities to match PicSight's polarities



Version 1.00.033

	EventGetDataInfo size parameter now returns value according to GenTL specifications.
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Version 1.00.032

	Fix to the random system hangs during image acquisition (especially with faster sensors).
	CheckSight. Fixed image corruption on stop acquisition (few pixels in top left corner were not belonging to the image)
	CheckSight: Handling of line debouncing parameters
	CheckSight: Fixed startup state of output lines, they are now set in the same way as their boot up state.
	CheckSight: Fixed inconsistency with chunk mode, when no field is enabled the only image field is now transferred instead of no chunk, same as PicSight.


Version 1.00.030

	PicSight GigE: Displayed IP updated on rescan
	Cameras were still reported (as unavailable) when disconnected. They are now correctly listed/not listed when present/not present.



Version 1.00.029

	Fixed crash on device rescan while camera(s) in use
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Version 1.00.025

	The Setup now installs also the PDB files for MS debugger to Bin\Debug folder.
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Version 1.00.024

 	CheckSight: UserOutput handling.
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Version 1.00.023

 	PicSight: Restarting the acquisition may produce a number of corrupted images on start when not using filter driver. Fixed.
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Version 1.00.021

  	Windows x64: Use of GEV filter driver
 	CheckSight: Added retrieve of IO line status
	Fixed exception on lv.explorer exit





Version 1.00.020

  	Updated buffer info according GenTL 1.2
 	Updated event log handling according GenTL 1.2

Version 1.00.017

 	CheckSight: Exposure limits updated with change of image formatting
 	CheckSight: LUT Handling: LUT access selection now based on current pixel format.
  	CheckSight: RS232 was not receiving characters. Fixed.
 	CheckSight: HW driven frame rate control.

Version 1.00.016

  	Connecting cameras over multiple network interfaces possible under Linux The lv.ipconf tool for Linux now discovers also cameras configured for incorrect subnet
	Fix detection if lost packets in all cases

Version 1.00.015

Initialize network library explicitly to avoid GenTL library load problems.

Version 1.00.012

CheckSight: Added HW trigger polarity handling

Version 1.00.009

R502: increased framerate to 14 FPS at full resolution

Version 1.00.007

PicSight/CheckSight: Enabled strobing on frame rate controlled acquisitions



NickName and Serial number can be retrieved by Gige interface without opening the camera.

Version 1.00.004

R502 frame timing fixed



CheckSight: New chunk layout including availability bits.



CheckSight Frame rate handling was not properly working. Fixed.



Fixed GetPortURL for non existing XML

Version 1.00.002

Halcon crashed on querying available devices. Fixed.



CheckSight: LUT updated properly on change





CheckSight: Programmable frame rate





Version 0.01.094

CheckSight: Watchdog support



Version 0.01.093

	CheckSight: Support for asynchronous reset and IOs for secondary acquisition path. Requires FW >=17-001
	CheckSight: Fixed mapping of frame trigger sources. It was hardcoded to TTL1 in previous versions.





Version 0.01.090

	Filter driver correctly reports incomplete frames.
	Driver related threads were running at normal priority possibly causing misbehavior on system load.
	
	Multiple instances allowed. Locking mechanism moved to single device level.



Version 0.01.089

	CheckSight: Enabled Long time exposure mode
	Redirect lvgev.log to common lv.simplon.log

Version 0.01.088

	CheckSight: Enabled ManualAOI mode.
	CheckSight: Support for Decimation
	CheckSight: Enabled autoexposure for sensors providing it.
	CheckSight: Fixed binning/decimation. Was causing crash/hang when enabled.

Version 0.01.087

	PS-Gige low buffer handling reviewed.
	Fixed issues in Linux version: Logging file access rights in multi-user environment. Problems with GigE camera discovery, resolved on single network card configurations, pending for multiple NC configuration.

Version 0.01.082

CASMA1: Changed novram search order

Version 0.01.081

Fixed CASMA Timer/IO setup after FPGA change (FW12)

Version 0.01.080

CASMA RS232 support

Version 0.01.079

Changed CASMA name to official CheckSight

Version 0.01.078

Allow multiple, nested InitLib/CloseLib

Version 0.01.056

Add support for GEV 1.1 and 1.2

Version 0.01.049

Support for LV Atom-based Streaming Module (CASMA)



Device handle is now different from remote device handle as requested by GenTL specifications.

Version 0.01.044

Rmored pre-SenIf support. Obsolete lv.camdef.dll / lv.camdef.dat

Simplon API**Version 1.00.102**

Bayer decoding Bilinear Color Correction was not decoding properly to RGB32 images. Fixed.

Version 1.00.096

Simplon .NET 4.0 x64 was not correctly recompiled. Fixed.

Version 1.00.094

Introduced the `IsAvailableByName()` and `IsImplementedByName()` functions.

Version 1.00.087

Added new constants for new features (Strobe)

Version 1.00.085

Fixed various inconsistencies around the UniProcessing, namely the LUT behavior.

Version 1.00.082

Simplon Explorer: Fixed incomplete display of tiles after acquisition stop.

Version 1.00.078

Simplon Explorer: Added button to search currently selected feature in the selected PDF manual (Windows only, Adobe Acrobat Reader must be installed). Incomplete images are announced besides the chunk data label.





Introduced `LvBuffer_UniImageOffset`, added to source code templates.
Fixed bug causing that code for find by TLType on CheckSight was generated with an empty string.
Fixed bug in source code generator, causing the correct target folder was not opened when it was changed by user.

Version 1.00.077


Updated templates for source code generator: Enhanced the OpenCV templates, now the samples support most common pixel formats. In all samples added `#error` line to the code in case the "all" or "streamable" option is used for feature settings - this should notify the user he/she should really review this part of code before compiling it.

Version 1.00.075


In the templates for the Source Code Generator was fixed an issue, causing the project converted to Visual Studio 10 was not able to run x64 application from the IDE.

	Simplon API: The ParseChunkData() function now checks the ChukDataID value (if it is provided) for additional detection of changes in the chunk data structure.
	Redesigned the Tile display mode. In Simplon Explorer clicking on a tile now leads to a full size image display. Added GetLastPaintRect() function to API. Removed the LvAviSaver module from header files and documentation.


Version 1.00.069

	Fixed bug in Simplon .Net Class Library, causing that some output parameters were not correctly returned. For example the GetFeatureByName() function did not return the proper feature ID for other modules than LvModule.
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Version 1.00.068

	Fixed bug in source code generator, causing the enums were set by the string values and not by Simplon constants (which also caused enums were not included at all in source code for PicSight Smart).
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Version 1.00.067

	The number of tiles is now automatically limited to the number of postponed buffers.
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


Version 1.00.064

	Remote device XML - workarounds to overcome flaws in GenApi by autofeatures.
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Version 1.00.063

	Simplon Explorer: feature edit controls are now also updated when the controlled feature gets changed in the time of editing (happens for example by self-clearing enums).
	Fixed bug causing the white balance may not be applied when no Bayer decoding is active. Fixed failure in LvDeviceSaveSettings(). Fixed small issues in Simplon running on CheckSight



Version 1.00.062

 	G32: Improved image quality on high gain values
 	P142A: increased framerate






Version 1.00.061

	<p>Simplon API: UniLUT now available also via LUT features in the same way as remote device LUT.</p> <p>Added new Device features: DeviceEndiannessMechanism, LvGevFindMaxPacketSize, LvGevPacketSizeValue, LvGevTestPacketSize, LvGevPacketSizeTestSuccess, LvGevCCTT, LvGevCCRC, LvUniLUTMode, LvUniLUTSelector, LvUniLUTEnable, LvUniLUTIndex, LvUniLUTValue, LvUniLUTValueAll</p> <p>Device features marked as obsolete: GevFirstURL, GevSecondURL, LvSensorExposureMode, LvGevFindMaximumPacketSize, LvGevMaximumPacketSize, LvUniResolvePixelFormat, LvExposureMode_TriggerWidth</p>
	<p>To Image Processing Library added functions for accessing single LUT value.</p>



Version 1.00.060

	<p>Bugfix in Simplon Explorer source code generator - float value entered manually (not by slider or buttons) was not recorded to history.</p>
	<p>Fixed bug in source code templates for OpenCV samples for Linux.</p>


Version 1.00.059

	<ul style="list-style-type: none"> - Simplon header files updated to fully comply to plain C compilation - Updated source code generator and templates. Added a solution for the case the camera autoloads its configuration from file after connect.
 	<p>Added Source Code Generator template for Linux application based on Qt</p> <p>Improvements in all Linux sample templates</p>
 	<p>Added Source Code Generator template for Linux application using OpenCV library</p> <p>Small improvements in other Linux templates</p>



Version 1.00.058

	<p>Added option to Simplon Explorer: Automatically save camera settings on disconnect and load back when it is connected again.</p> <p>FPS now measured with more precise timer.</p>
	<p>Chunk data display updated, fixed occasional 0 shown in some chunk data.</p>



Version 1.00.053

	<ul style="list-style-type: none"> - Updated the behavior for White Balance calculation when HW LUT is used. - Simplon Explorer bugfix - when polling was switched off, the white balance calculation disabled the white balance reset command
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Version 1.00.052

	Added support for variable pixel format.
	<p>Simplon: The delay-loading of lv.simplon.display.dll could cause dropped images at startup, fixed.</p> <p>Simplon Explorer:</p> <ul style="list-style-type: none"> - Enhanced the Statistic tab in - Added possibility to save all images - Optimized image skipping in display when the live is too fast. - Removed the option for image skipping from lv.simplon.ini - Changed all open/save dialogs to a faster version




Version 1.00.050

	G43A: Improved image quality. Prevent vertical stripes in trigger mode on certain gain values.
	Added syntax highlighting to Explorer source code snippet.


Version 1.00.040

	Distributed Simplon .Net Framework 4.0
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Version 1.00.038






	Upgraded GenICam GenApi to version 2.1.1
	Fixed wrong names by LvLUTMode, LvBalanceRatioSelector, LvBalanceWhiteAuto, LvGevDeviceClass, LvGevIPConfigurationStatus and LvGevSCPDirection enums (were accidentally prefixed like non-Net constants and were causing compile error in generated source code).
	Simplon API: Added SetInt(), GetInt() and GetIntRange() function to all APIs for convenience - this is equal to SetInt64(), GetInt64() and GetInt64Range(). The SetInt() should be now preferred instead of SetInt32() to avoid possible sign problems with 32-bit unsigned int parameter.

Version 1.00.037



	- Simplon API - added a set of new Device features and enum constants to reflect the current status of firmware, a few constants marked as obsolete. Enhanced the Renderer features.
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Version 1.00.036


	Fixed CPP code generator templates which did not compile on some systems
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	<ul style="list-style-type: none"> - Simplon Explorer: Fixed bug in source code generator - the Enums for which a Simplon constant was not defined were written incorrectly in the source code. - Simplon Renderer module - enhanced the functionality of display modes.
	<ul style="list-style-type: none"> - Simplon Source code generator: Win01 templates for CPP and PlainC modified - added support for setting white balance and saving it to INI file. - Simplon Explorer - changes in some features are now reflected in GUI (Display Mode, Update Device List)
	The Source code generator now offers as the default option the History (of feature changes) for the code generation. Only for GigE cameras with FW < 2.00.039 it uses as default the original Streamable option, because the old FW did not reset the camera parameters after its connection.
	In Simplon Settings the former 2 options "Use Queue" and "Buffered Logging" were unified into one: "Disable All Buffering".
	Fixed a bug causing a crash in Simplon Explorer, when the device was receiving the user log from a smart camera, then it was closed and reopened.





Version 1.00.035

	Simplon code generator: Fixed bug causing compilation errors in .Net code when a Simplon predefined constant was not available for the feature.
	Enhanced support for variable image size in Simplon API and Simplon Explorer.


Version 1.00.034

	Simplon Explorer: fixed bug in source code generator - when the history was used for the code generation, enum values could be wrongly set in the generated code.
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Version 1.00.032


 	Reduced maximum readout height to a multiple of 4 because of bayer pattern: P32, P33, P34, P52, P83, G32
 	R312AB: fixed binning/decimation

Version 1.00.031


	Simplon Explorer: added source code templates for QT 4.5 sample applications
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Version 1.00.030


	Source code templates for OpenCV samples: fixed problem with RGB pixel format and added OpenCV exception handling.
	Simplon Explorer: added source code template for a Windows application, which does not use a callback function; instead it picks images in the main thread on a timer.

	Simplon API: Enhanced the ParseChunkData() function - now automatically forced to decode the layout on next buffer, if the decoding of the layout on the current buffer fails.
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Version 1.00.029

	G32: Fix exposure range in trigger mode
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Version 1.00.026

	Simplon Explorer: fixed bug causing the IP addresses could not be set.
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Version 1.00.025

	Simplon Explorer: <ul style="list-style-type: none"> - added possibility to save/load the whole configuration - to control the acquisition on multiple cameras with one click - issue the SW trigger periodically by timer
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Version 1.00.024

	To all templates added FlushQueue(AllDiscard) before the buffers deletion - to satisfy the GenTL standard.
	Simplon API adapted so that the stdint.h file need not be distributed.
	Simplon .Net Class Library: added missing constants to enums.


Version 1.00.022

	G43AB: fixed vertical stripes at reduced readout width
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Version 1.00.021

	Increased minimum readout height to 4 lines, for CheckSight CCD color sensors.
	Simplon Explorer: added I/O dialog for easy monitor and manual control of input and output lines.
	Simplon Explorer: <ul style="list-style-type: none"> - Redesigned the chunk data display in the line, to support string chunks, integer selectors and unknown chunks. - The FW checking now offers immediate switch from 1.x to 2.x and reboot. - Fixed bugs appearing when working with a smart camera in the feature locked mode.















Version 1.00.019

	Added FindBy_Any option for Interface and Device search functions.
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Version 1.00.018

	Simplon Explorer: now opens the camera in the LvDeviceAccess_Control mode (previously in the LvDeviceAccess_Exclusive). The same applies to all source code templates.
	Simplon Explorer: fixed a bug causing a crash when editing an integer feature with a hexadecimal representation.
	Simplon Explorer: Added notification about obsolete FW on Leutron GigE cameras (optional). The timeout on CmdExecute changed from 5 seconds to infinite (for Leutron cameras) + added possibility to set the timeout in the lv.simplon.ini file.








Version 1.00.017

	Simplon Explorer: Fixed the problem with display of images when NumberOfTiles >= NumberOfBuffers. Fixed a rounding problem by the int/float value slider.
	Simplon Explorer: The functionality of the code for chunk data generated in the project Generation Wizard was dependent on the previous camera status. The templates were redesigned to avoid this problem.
  	Fix firmware upgrade tool
 	G43AB: Fix image corruption in black areas at lower readout width and manual blacklevel
	Simplon Explorer: fixed bug in the display of chunk data in the image window.
	Simplon Explorer - fixed issue with integer edit box (wrong usage of min/max), fixed display problem after camera reactivation
 	R502: fixed cropped images when changing sensor readout from small ROI to full size.
	Simplon API: Added the GetLastErrorMessage function, providing better error diagnostics.
	Simplon C++ Class: Added the LvException class and optional possibility to switch on the conversion of error states to C++ exceptions. Simplon .Net Class Library: The LvException class now provides the Number() method, returning the LvStatus, which caused the exception.
	Simplon Explorer: Changed the way the tree of devices is built from multiple GenTL producers - now each producer has own root item. Simplon Settings: Added button for clearing file/folder name.


Version 1.00.016

	<p>Simplon Explorer: The previous image display redesign caused sometimes 100% CPU load. Now implemented differently.</p> <p>Simplon Explorer: Fixed problem with the display of incomplete images (the option to display them did not work).</p> <p>Simplon API: Fixed problem with the LUT conversion to big endian for GigE cameras.</p>
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Version 1.00.015

	Simplon Explorer: redesigned the implementation of buffer painting, the previous solution sometimes caused the image painting loop was broken and images stopped to be displayed until the camera was disconnected and connected again.
 	Fixed GigE firmware update on Windows 7
	Implemented FindBySerialNumber and FindByUserID options for the LvInterfaceFindDevice function. Added FindByUserID to source code generator templates.
	Added the DontPaintIncomplete flag to LvRenderer - disables painting of incomplete images. Simplon Explorer now uses this flag as an option inSettings to avoid painting incomplete images.
 	R502: fixed hardware triggering




Version 1.00.014

	Added support for setting the HW LUT by LUTValueAll on GigE cameras.
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Version 1.00.011

	R312AB: synchronized exposure time changes in triggered mode. Limited exposure time range.
	R502: global reset support
 	R502: inverting pixel clock


Version 1.00.010

 	R502B: fixed frame timing which caused wrong bayer presentation
	CheckSight: Support for automatic black level


Version 1.00.009

	<p>QT applications available also for the x64 platform.</p> <p>Source code generator templates modified to support the x64 platform.</p>
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Version 1.00.008

	<p>Simplon Explorer - changed the behavior of the image window (not staying on top), added the handling of the <Enter> key in the Send command combo box.</p> <p>Source code generator: templates extended to provide code for chunk data setting and processing. Enhanced error handling in source code.</p>
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Version 1.00.007

	<p>Fixed bug in Simplon Explorer causing the Info tab was disabled when SysLog was not enabled in Simplon Settings.</p>
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Version 1.00.006

	<p>Simplon Explorer: added a tab for ASCII Cmd Send/Recv + Smart App Event monitor,</p> <p>Simplon: implemented the Timeout parameter by the LvCmdExecute() function.</p>
	<p>Simplon Explorer: fixed bug by the image process&display skipping when there are too many buffers waiting in the output buffer queue.</p>



Version 1.00.005

	<p>Simplon Explorer - fixed 2 bugs with the repaint of images.</p>
	<p>Added shortcut keys to Simplon Explorer.</p> <p>Added first beta version of Simplon .Net Class Library</p>

Version 1.00.003

	<p>To Simplon Explorer added a possibility to save the image buffer to a plain BIN file.</p> <p>Changed the type by SetEnum/GetEnum from int32_t to LvEnum.</p>
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Version 1.00.002

	<p>For the PicSight Smart source code templates the Simplon Explorer now determines the set of available API functions from the currently installed version of Smart SDK (NX-SDS). The "Open target folder" button opens a command line window in the target folder and runs automatically the LvSetup.bat file.</p>
	<p>Fixed memory leak happening when pixel format was changed and UniProcessing was ON.</p>


Version 1.00.000

	First official release
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Version 0.01.094

	Added support for the LvFtrType_Buffer type. Updated WatchDog features.
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Version 0.01.093

	Source code wizard extended to support generation of source code for multiple cameras. Added templates for samples controlling 2 cameras concurrently.
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Version 0.01.092

	Simplon API: Added new LvDevice constants and enumerations. Simplon Explorer: updated camera tree behavior and icons
	Fixed a bug, causing the Info panel in Simplon Explorer was sometimes hidden in the multiple camera mode.




Version 0.01.091

	Added templates for source code generator for the usage of the OpenCV library in Windows.
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Version 0.01.090

	Simplon Explorer redesigned to support running multiple cameras concurrently. The original design still available as an option in Settings.
	Fixed a bug in the source code generator, causing wrong code generation from a template under a certain combination of options (nested IFs incorrectly parsed in the templates).
	Simplon Explorer: Added icons by cameras, indicating the access status of each camera. Added link to PDF manual as help and link to a web page. Added a Statistics tab.
	Fixed issues in the Renderer tile mode in Simplon API.




Version 0.01.089

	Image processing library API changed (#defines to enums)
	Simplon Explorer: the list of chunk data values displayed on the line above the image is now built dynamically, from chunk data actually available.
	Fixed 2 bugs in the source code generator - missing were selectors in other than DeviceRemote group, code for some read-only features was not shown.




Version 0.01.088

	Simplon Explorer: Added persistence of the "Source code" menu items.
	Simplon Explorer: unsuccessful feature write operations are indicated by changing the value color to red and adding a label: (write failed!).
	Small bugfixes in Simplon Explorer (resizing limits of image, 5% and 10% feature increments and decrements, hexadecimal number edit, icons changed).


Version 0.01.087

	Redesigned the way the camera is connected in Simplon Explorer (now the tree of cameras is available in a tab). Reorganized buttons and icons.
 	Fixed issues in Linux version: Fixed crashes when displaying images on 24-bit display configuration Fixed output to TIFF and JPEG Fixes in the source code generator outputs


Version 0.01.084

	Added API for polling the non-cached features - LvStartPollingThread(), LvStopPollingThread(), LvPoll(). Added info features for obtaining the cached status and recommended polling time. In Simplon Explorer the features are polled with the frequency of 1 second. Polling can be switched off in the Settings dialog. Furthermore added an option to switch on chunk data features at camera open to Simplon Explorer (before it was switched on always).
	Simplon Explorer: Added possibility to use C escape sequences in string features (to be able to express non printable characters in RS232 commands); added "Update feature tree" button for refreshing the whole tree.
	Implemented functions for saving and loading JPEG images. Added JPEG format as option to Simplon Explorer Save Image dialog.


Version 0.01.079

	Added the display of the LUT to Simplon Explorer Added persistence to expand/collapse states of tree nodes when switching between levels.
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Version 0.01.078

	Simplon Explorer: added the Settings dialog, the feature tree is not expanded by default, the last used camera can be automatically open.
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Version 0.01.076

	Simplon Explorer: cameras made sorted alphabetically, added button for SW trigger, added saving to BMP and TIFF formats.
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Version 0.01.074

	Changed name of features: LvTimestampsResetMaskValueAll->LvImageStampsResetMask, LvTimestampsResetMaskSelector->LvImageStampSelector, LvTimestampsResetMaskValue->LvImageStampResetEnable. Implemented mechanism of backward compatibility with old features.
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Version 0.01.073

	Fixed bug in the source code generator causing uncomilable code for enum entries, for which a predefined constant did not exist. Fixed bug causing a camera without defined vendor could not be open.
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Version 0.01.069

	Added constants for LvVariablePayloadSize, LvSerialPortxxx, LvSmartAppExitEvent, renamed some LvChunk constants to Chunk, redefined Line constants.
	Simplon Explorer now handles the IsDone() for command features - a hour glass cursor is displayed during the wait and other features in the tree are not clickable during the wait.
	Added 2 new native functions: LvSystemFindInterface() and LvInterfaceFindDevice(). Updated Simplon Explorer source code generator to offer usage of these 2 functions.
	Th LvGetEnumStrByVal() was not accepting NULL for symbolic name - fixed.


Version 0.01.066

  	Filter driver: fixed problem on acquisition stop that could cause BSOD
	Added support of "Plain C for PicSight Smart" to the source code generator in Simplon Explorer.


Version 0.01.065

	The set of constants for features and enum entries redefined - now constants are available for all Leutron features. Updated source code generator, now shows code also for System, Interface, Stream and Renderer modules.
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Version 0.01.063

	Simplon Explorer: The feature trees separated into tabs. Simplon API: Added support for Simplon features from XML.
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Version 0.01.061

	Simplon Explorer: Added Feature Find dialog and Update Camera(s) command. Enlarged icons. Fixed bug causing a crash when displaying info for enums with large description.
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Version 0.01.060


	- In Simplon Explorer fixed bug with the wrong colors of some read-only items.
	- Added new GUI types: LvFtrGui_IpV4Address, LvFtrGui_IpMacAddress. For features with this GUI type can be used LvSetString() and LvGetString() - In Simplon Explorer used new GUI types - IP and MAC addresses now displayed naturally.

Version 0.01.054


	The buffer handling in the API was changed so that the buffers are treated in the same way as System, Interface, Camera, ... objects. Some functions were renamed as they now belong logically to the the Buffer object, not to the Stream.
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Simplon Setup


Version 1.00.077

	Fixed the setup of the Filter Driver for x64 operating systems.
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Version 1.00.075

	The filter driver update was not reliable, now the filter driver is first uninstalled, then new version of the driver installed.
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Version 1.00.074

	Added installation of Simplon adapter for Cognex software
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Version 1.00.068

	Fixed a bug in Simplon Log system, which could under certain conditions cause a crash at the application exit.
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Version 1.00.053

	Fixed failure to uninstall previous version when Simplon was installed to a different folder. Enhanced setup logging.
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Version 1.00.040

- Added automatic installation of filter driver
- Bugfix: on Win Vista nad Win 7 the silent installation did not work properly

Version 1.00.033

The Linux installers were not generating the required empty directories in /var/opt/simplon area.

Version 1.00.021

Filter driver 64bit included in setup. It needs manual installation as for 32bit driver.

Version 1.00.020

Included sample script for Halcon

Version 1.00.019

Simplon static XML files separated from XML cached files (are now installed to a different folder).

Version 1.00.018

The Simplon Setup now installs the stdint.h file not renamed. Originally this file was installed as renamed to stdint_.h, and required the user to rename it in case this file was not already available by his compiler.

Version 1.00.011

x64 distribution was incomplete


Version 1.00.009

Finalized the installation of 64-bit Simplon, new dialog for selecting the platform. Filter driver not yet available.


Version 1.00.007

Inclusion of 64bit DLLs for beta testing.


Version 1.00.006

	Added the DisableFileLog option to LvSetup.ini.
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Version 0.01.090

	Setup updated so that it installs properly 32-bit binaries on an x64 system.
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Version 0.01.087

	Improvements to Linux Simplon setup (RPM, DEB). Added post-install steps to update environment and configure dynamic linker. Included lv.ipconf tool.
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Version 0.01.076


	Fixed problem with creating the GENICAM_GENTL32_PATH and GENICAM_GENTL64_PATH environment variables.
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Version 0.01.056

	Linux installer for Simplon is available in rpm, deb and tar.gz formats.
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CASM Firmware

Version 1.00.003

	Added firmware upgrade tool for streaming module
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Contacting Leutron Vision

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Other countries

Customers residing in other countries should have a look at the [list of our representatives](#)³ for a distributor in their country. If no distributor exists in their country, they should contact the headquarter office directly.

Useful links

- To download software, documentation and other stuff, please visit our [download area](#)⁴.
- Get more information about our [support](#)⁵. If you need to return some (defective) material to Leutron Vision, please visit the [Return Material Authorization \(RMA\) page](#)⁶.
- Get information about [prices and ordering](#)⁷.
- Find out detailed information about our [hardware and software product range](#)⁸.

¹ <http://www.leutron.com/>

² <http://www.leutron.com/de/>

³ <http://www.leutron.com/sales-contact/>

⁴ <http://www.leutron.com/support-downloads/download-area/>

⁵ <http://www.leutron.com/support-downloads/>

⁶ http://www.leutron.com/rma/client_id.php

⁷ <http://www.leutron.com/price-request/>

⁸ <http://www.leutron.com/products-machine-vision-image-acquisition/>