

RELEASE NOTES

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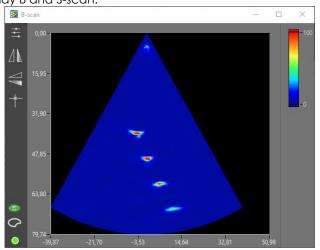
Components	Versions	
API software	3.1.0.3	
UTView_64.exe	3.1.0.3	
UTView_32.exe		
Configuration file		
UTView.ini	5.5	
Language files	2.5	
English.xml	2.0	
French.xml		
Library	8.6.0	
sidev_64.dll	0.0.0	
sidev_32.dll		
Additional programs	2.6.4	
SIPATOOLS_64.exe		
SIPATOOLS_32.exe		
Firmware		<u>Firmware for FAAST-PA :</u>
Service	10.0	frm_pa_ 250822.bin
		Firmware for SOCO-SCAN & SOCO-SWIFT-PA:
		frm_ssw_ 250822.bin
		Firmware for SOCO-X-UT:
		<pre>frm_soco_ 250822.bin Configuration files for all devices :</pre>
		cfg_generic_120522.bin
		Additional files for FAAST-PA:
		cfg_pa_1x32_080719.bin, cfg_pa_2x32_080719.bin,
		cfg_pa_3x32_080719.bin, cfg_pa_4x32_080719.bin,
		cfg_pa_1x64_080719.bin, cfg_pa_2x64_080719.bin,
		cfg_pa_1x96_080719.bin, cfg_pa_1x128_080719.bin,
		cfg_pa_1x32_128_080719.bin Additional files for SOCO-SCAN :
		cfg_soco_scan_1x16_250621.bin,
		cfg_soco_scan_1x32_250621.bin,
		cfg_soco_scan_plus_1x16_250621.bin,
		cfg_soco_scan_plus_1x32_250621.bin
		Additional files for SOCO-SWIFT:
		cfg_soco_swift_1x32_250621.bin, cfg_soco_swift_1x64_250621.bin,
		ctg_soco_swift_1x96_250621.bin,
		cfg_soco_swift_1x128_250621.bin,
		cfg_soco_swift_1x256_250621.bin,
		cfg_soco_swift_plus_1x32_250621.bin,
		cfg_soco_swift_plus_1x64_250621.bin,
		cfg_soco_swift_plus_1x128_250621.bin, cfg_soco_swift_plus_1x256_250621.bin,
		Additional files for SOCO-XP-UT:
		cfg_soco_xp_250621.bin
		Additional files for SOCO-8S-UT:
		cfg_soco_8s_250621.bin
		Additional files for SOCO-1-UT & SOCO-1AB-UT:
		cfg_soco_1_250621.bin
WebAdmin	1.3.1	
SocomatePlatformManager	1.1.3	
Interface modules	4.0	NITLOGO INLAY A COLOR
INTLOG_IN:	4.0	INTLOG_IN_V_4_0_0.pof (model MAX)
INITANIA OUT	1.0	INTLOGIN_C_V1.pof (model Cyclone)
INTANA_OUT:	2.3.1	INTANA_OUT_V_2_3_1.pof (model < c)
INITI OC OUT:	3.1.4	INTANA_OUT_V_3_1_4.pof (model ≥ c)
INTLOG_OUT:	2.3.1 3.1.3	INTLOG_OUT_V_2_3_1.pof (model < b) INTLOG_OUT_V_3_1_3.pof (model ≥ b)
	3.1.3	IINILOO_OUI_V_J_I_J.PUI (model≥b)
		Where is indicated model

Color to indicate additions or corrections made by a patch

D Description

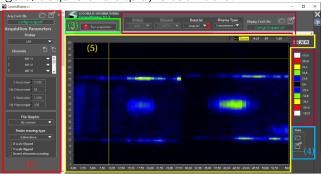
Some programs and tools have been added:

Bscan_xx (for SOCO-SCAN, SOCO-SWIFT and FAAST-PA products) A program to display B and S-scan.



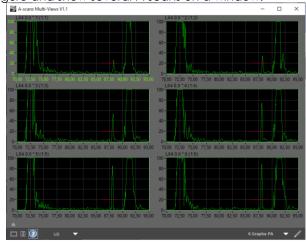
CscansDisplay_xx(for all devices)

A program to configure, acquire and display C-scan data.



AscansMultiView_xx (for all devices)

A program to configure and show several A-scans on a window.



UT_dependencies_xx

A tool to check and ZIP an UT file with all this dependencies files such as laws, probe, ...

VFAnalyzer_xx

A program to check the file versions of the installed components.

Note: These programs are named with the number of bit of the target

Ex: B-scan_32.exe or B-scan_64.exe

A new COMPRESSED AS USPC A-scan mode has been added.

This mode is reserved for SOCO-X products at FS=200MHz.

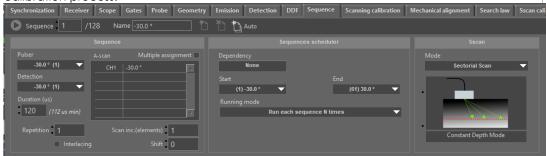
This mode has been designed to return the A-scan signal as the old USPC products done.

A new S-scan mode has been added.

The tab sequence has been modified to manage this mode.

New tabs have been added to calibrate the S-scan and to set a DAC

You can call Bscan_xx program to get a graphic representation of S-scan during the calibration process.





NOTE: This mode works with new laws calculated with SIPATOOLS 2.5

Now, the time performances are displayed to know the maximum achievable performance according to the current settings.





New alarm process to check temperatures and voltage has been embedded. This process periodically checks these parameters to set LED status.

Improvement of plugins

Displaying a message box to apply changes if certain changes were detected when the operator exits the current tab.

Improvement of IO cards performances

- Improve boot process (auto-check)
- Increase the cable length up to 50m
- Manage a LED to indicate the status of the cards
- Enable IO card with SOCO-SCAN and SOCO-SWIFT
- Correct a bug of the output of TOF (was 5V when TOF = Ousec)
- Reset the output to 0V when an IO pin is unselected.

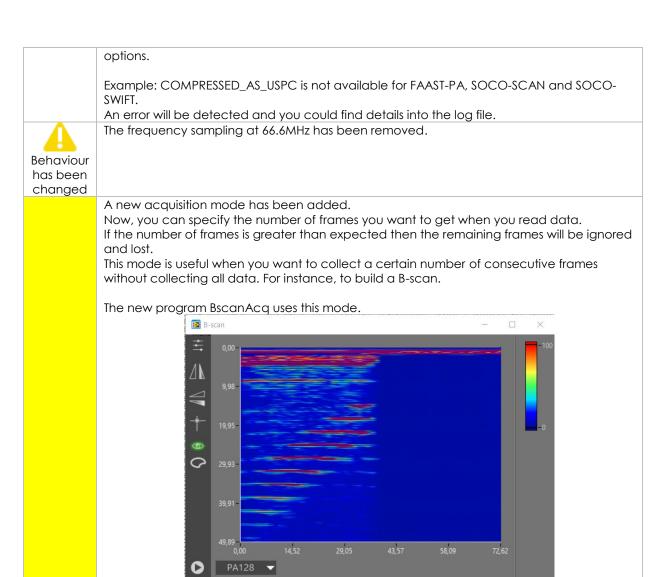
New parameters are available with the DLL:

- "sync_period_min", "sequence_time_min" to get time performance
- "path" to get X, Y coordinate of points of the A-scan signal (*).
- "gate_path" to get X, Y coordinate of points of the gates (*).
- "gateX_projection", "gateX_relative_projection" to get the X, Y coordinate of a distance measured into a gate (*).
- "gatex_inversed_projection", "gatex_relative_inversed_projection" to get an ultrasonic distance from an X, Y coordinate (*).

(*) Request a "law" created by the new SIPATOOL program. These parameters are used for B and S-scan representation.

Improvement of Scanning-tool to calibrate the multi-beams configuration in one shot.

The new DLL checks the INI configuration file to detect incompatibilities between selected



#399 #492 #501

Constant definitions for C# developers have been added into the SIDEV class

Adds a feature to SIPATOOLS to calculate the delay laws with a spherical matrix probe.

SIPATOOLS improvement. Management of beam obliquity when a linear probe is oriented around its central axis.

Color to indicate additions or corrections made by a patch

Bugs fixed

ID	Description
	The firmware has been updated:
	 To return all data on finite number of triggers.
	To improve a dead zone at the beginning of the A-scan.
	 To run A-scans with COMPRESSED and EXTENDED mode at 8/9 bits for all
	frequency sampling.
	 To improve the element calibration process by eliminating inactive elements
	 To improve the Y calibration of the A-scan signal.
	 To improve the loading of the firmware when we change the A-scan mode.
	 To force divider to 1 when internal trigger is selected.
	 To correct the management of LED READY. It was OFF when a UT file designed for element calibration was loaded.
	To correct interlacing mode.
	 Sends interlacing value to file upload
	 Auto recalculate the interlacing value if the repetition number changes

Bug fixed and improvements by patch 1

ID	Description
#388	Correct a bug when gates use inches
#370	Add missing source codes for LabView developers.
#334	Add signal description of K2 connector of SOCO-X cards.
#335	Correct the Developer's manual.
	"device%d_hv" command description wasn't correct.
#312	The 32 bit Detection plugin (for Phased Array devices) wasn't up to date.
#387	The firmware of the Interface output cards have been improved.
#400	
#405	
#379	Update VFAnalyzer program (a tool to check version files)

Bug fixed and improvements by patch 2

ID	Description
#389	Fixe an issue into the DLL to enable to emulate more one device
#371	Fixe an issue into the DLL to enable to open an empty file (for multi-elements devices)
#410	Correct the SOCO-SWIFT emulation keys into the Windows registry.
	The previous keys were designed to emulate the SOCO-SWIFT-PLUS.
#432	Fixe an issue into the DLL to correct the velocity of gates when current unit is not in usec.
NEW	Displays the patch version in the "About" window.
	The fourth version number of the index is used as the patch number
	Ex: Version 3.1.0.2 will be displayed as 3.1.0 P2 in "About"
#433	Improve encoder counting → Count or down count on rise flank of channel A and B.
	Previously, only channel A was working on rise flank, the channel B was working on level.
	This can introduced an error on changing direction.
#434	Correct the service to limit the gain of SOCO-X products to 80dB.
	Display the Patch version into the "About" window.
	Example: If the version of UTView_64.exe is 3.1.0.2 then it will be displayed as "3.1.0 P2" into
	"About".
#435	Reading the refresh period of the A-scan on the fly and no longer when opening UTView.
	This allows, for example, by changing the registry key "AscanRefreshPeriod", to control the
	refresh speed from another application. And thus slow down UTView in favor of this
	application.
	Note: A period >= 1000 ms stops the refreshing.

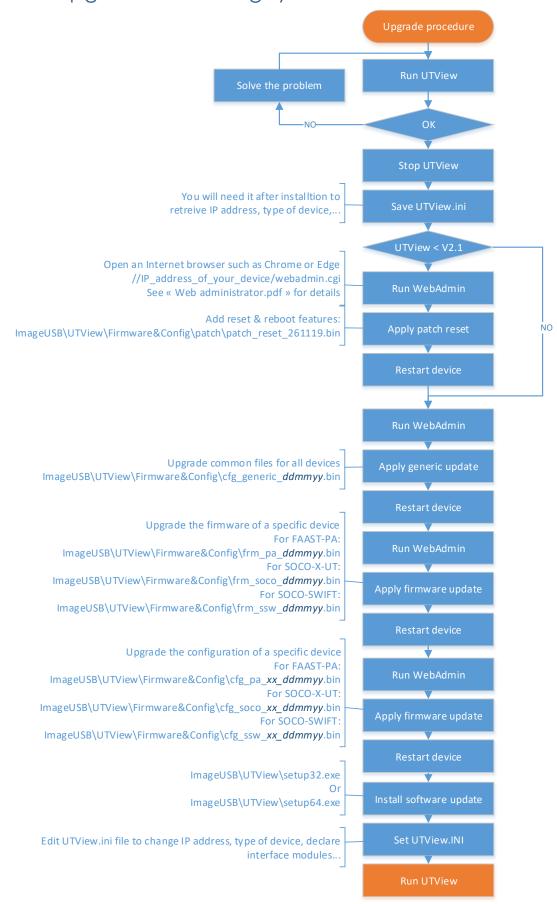
Bug fixed and improvements by patch 3

ID	Description
#420	Fixed a bug when a SOCO-SWIFT device uses an output interface module. The app was
	crashing.
#424	Fixed a bug when UTView's law finder called the SIPATOOLS program. SIPATOOLS did not
	return the correct laws.
#442	Added additional information on how encoder inputs work in the documentation.
#443	Added a time constraint of 10usec between the end of detection and the beginning of
#471	the next sequence when Phased Array devices use an analog output board.
	This new constraint may affect your existing setting files if they don't respect it. The time of
	cycle and sequences can be increased when you load your files.
#458	Added additional information about data format in the developer's manual.
#460	Fixed a bug on analog outputs connected to devices of the SOCO-X-UT family. The
	outputs assigned to the 7th probe were not working.
#465	Change and harmonization of interface manual names.
	LOG ANALOG OUTPUT manual becomes INT ANALOG OUTPUT (ANAOUT) manual
	LOG DIGITAL OUTPUT manual becomes INT LOGICAL OUTPUT (LOGOUT) manual
	LOG INPUT manual becomes INT LOGICAL INPUT (LOGIN) manual
#469	Fixed a bug in the sidev_32.lib file. This file referenced the 64-bit library.

Bug fixed and improvements by patch 4

ID	Description
#436	The duplication mode couldn't be changed when duplication was active. The new version enables to change the duplication when it is active.
#470	Impossible to save geometry. The new geometry plugin fixes this issues.
#483 #493	Some VI sources weren't distributed. The new setup program fixes this issues.
#484	Adds "gatex_output_offset" and "gatex_output_range" into the developer's manual.
#489	Correct the definition of "gatex_phase_mode" and "gatex_detection_mode" into the developer's manual.
#495	Fixes a bug in SIPATOOLS to calculate delay laws with a tube and an encircling probe.
#502	Fixes a bug in SIPATOOLS. Correct the centering of a linear/matrix probe position when calculating the delay laws on the opening zone and when this probe is oriented around its Z axis.

How to upgrade an existing system



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