GTStudio

RELEASE NOTES

Version 3.5.0

VX TEST SOLUTIONS

1 Version 3.5.0

1.1 BASEML

#	summary	Tracker
1295	Add simple dialogs to BASEML	Feature
1324	Deadlock when closing BASE ML dialog using ESC	Bugfix

1.2 COMML

#	summary	Tracker
1229	Introduce COMML with LIN and CAN support to GTS	Feature
1284	Add SPI and I2C to COMML	Feature
1259	Setup and cleanup of test method library is not shown correctly	Bugfix
1287	Bitrate cannot be set for CAN communication	Bugfix

1.3 GTbuilder

#	summary	Tracker
404	Create reports from GTbuilder	Feature
1043	Display SW.ini name in error routing message	Feature
1171	Keep empty lines and comments in C file	Feature
1191	Route info output after each test step	Feature
1098	Display of the "Build Toolchain" with unavailable rights	Bugfix
1257	Error "Could not open file 'HW_Setup.ini'" on first start while try to deactivate simulation for devices	Bugfix
1268	Starting a debug session on a second project while another project is already loaded should be permitted	Bugfix
1279	Copy and paste does not work, when not clicking on a new item in program tree	Bugfix
1290	GTbuilder crashes when steps are deleted and other steps are selected	Bugfix
1291	Char variable is created as a string when copying a method	Bugfix

1.4 GTE API

#	summary	Tracker
1303	gte_DeleteSubResult to delete only a specific result/validation by ID	Feature
1318	Allow access to values (testplan) of measurements/results from test program	Feature
1320	Provide consistent GTE API for waveform functionality independent of BASEML	Feature
1265	Rework AdjustROpen and AdjustIOpen functions, to make sure a value compare works	Bugfix

1.5 GTengine

#	summary	Tracker
1242	Show step numbers in Machine Capabilities Analysis	Feature
1317	UUT scan verification using regular expression	Feature
1239	Nest count of station is not resetted on product load	Bugfix
1309	GTengine crashes on second login	Bugfix
1321	Abort / Terminate not possible on Retest	Bugfix
1322	Error when double clicking on DUT in Production View / REPORT	Bugfix
1323	Tester can set breakpoint without debug permissions	Bugfix

1.6   GTML

#	summary	Tracker
1282	Add generic URM module to GTML	Feature
1302	Rework SET_DCPWR method for sink modes	Feature
1269	FREQ_SIGANL cannot handle change of Sample Count on run time	Bugfix

1.7   GTS

#	summary	Tracker
1014	Show only one line for result id 0 and step in PDF report	Feature
1233	Make all testplans adjacent to testprogram selectable on load	Feature
1260	Write and show scope data in graph, support for envelope curves	Feature
1262	Licensing for test method libraries	Feature
1271	Also show bin id additionally to bin name in test program view	Feature
1285	Sign GTS Installer.exe on Jenkins	Feature
1299	Make result/validation name overwrittable from test plan	Feature
1300	Property to make real and int validations use an absolute value	Feature
1301	Make "Log in Report" available for measurement/result/validation via test plan	Feature
1304	Show id of bins first before bin name, show id also in testplan properties for binning	Feature
1312	New standard group PrepareTestOnce only executed on first run	Feature
880	If attribute string list is disable the value can still be changed via the combobox	Bugfix
1240	Resource Manager is not thread safe and prepared for multiple init calls	Bugfix
1263	Error DeleteFile caddy.exe and nssm.exe on second install of GTS	Bugfix
1264	Test method libraries should not use gte_ResourceManagerCleanUp	Bugfix
1270	Soft Bins collected from test program contain duplicate bins	Bugfix
1274	Users Tester and Admin initially do not have all rights in GTBuilder	Bugfix
1275	Use default FTDI Vendor/Product ID to avoid custom driver issues on Windows 10/11	Bugfix
1308	Waveform Viewer crashes if sample interval of waveform is to small	Bugfix

1.8   GTincircuit

#	summary	Tracker
1141	New GUI for simple creation of ICTx tests	Feature

1.9   LED-TML

#	summary	Tracker
1250	The scan of the LED_TML also detects other COM ports that are not FEASA devices	Bugfix

1.10   PROGML

#	summary	Tracker
1232	Introduce test method library for programmer	Feature

1.11   SCPI-TML

#	summary	Tracker
1261	ACQ_SCPI added to get multiple values from scopes	Feature
1118	SCPI query compares with empty string	Bugfix

1.12 VX_PROG

#	summary	Tracker
1251	The VX_Prog scan function does not verify whether a real Flash Runner device is detected; instead, it selects one at random	Bugfix

1.13 VX_SPI_I2C

#	summary	Tracker
1293	Missing timeout in IO-Warrior56 Dongle can lead into timeout and blocking test execution	Bugfix

2   Version 3.4.0

2.1   CSB

#	summary	Tracker
1173	Rework VX_Lin library to be consistent and independent of peak hardware	Feature
1159	API call init with resource name return success	Bugfix

2.2   Documentation

#	summary	Tracker
1131	Create documentation of ICTX (.cdf) format	Feature

2.3   GTbuilder

#	summary	Tracker
1193	Opening brackets in step description disappears when saving / loading program	Bugfix
1175	When variables are adjusted in GTbuilder program does not recompile	Bugfix

2.4   GTE API

#	summary	Tracker
1210	New API function to start process with timeout and exit code	Feature
1209	Arguments of exec process API call can now be quoted to all spaces	Bugfix
772	Take over multstation functionality (Siemens) from Version 2.1 to current version	Feature

2.5   GTengine

#	summary	Tracker
1176	Loading same order/lot in GTengine does not reload product/test program	Bugfix

2.6   GTML

#	summary	Tracker
1188	PAM silent mode introduced (no popup dialogs)	Bugfix
1142	Reworked USB scan in GTML test method GETI_SYSTEM	Bugfix

2.7   GTS

#	summary	Tracker
1187	Program item double click plugin event (Custom Action)	Feature
1174	Fixture Position analogous to Test Index and Test Repetitions as GUI element	Feature

2.8   SCPI-TML

#	summary	Tracker
1169	WRITE_SCPI should not display a error msg box, instead add the error to the result	Bugfix

2.9 ICTX

#	summary	Tracker
1211	ICTx discharge is very slow in simulation mode	Bugfix
1170	Resistor adjust limit allows max. up to 10	Bugfix

2.10 VX Uart

#	summary	Tracker
1063	reworked UART driver and added new unit bit/s	Feature

2.11 VX URM

#	summary	Tracker
1217	Implement reading input pins in VX URM	Feature

3 Version 3.3.0

3.1 GTbuilder

#	summary	Tracker
1105	Activate alternating row colors for drag-and-drop tree model	Feature
1094	GTbuilder-Project: Show in Explorer is disabled after compile test program	Feature
1093	GTbuilder new element under group for code area, allow usage of TML methods	Feature
1092	GTbuilder-Project: Show in Explorer	Feature
1145	ProjectItemCodeArea in GTbuilder is now editable	Feature
1132	Shortcut for log in report in GTbuilder	Feature

3.2 GTE API

#	summary	Tracker
1109	Extension of GTE API for process execution and regular expression search	Feature

3.3 GTS

#	summary	Tracker
1107	Provide GTS routing library as separate package	Bugfix
1091	Make test packages runnable in multiple stations. Dont use subfolder	Bugfix
1143	Implement PLC Demo Plug-In for Snap7 and Siemens PLC	Feature
1129	Migrate GTS to Python 3	Feature
1119	Repeatedly performing MEAS_DMM causes GTS to crash.	Bugfix

3.4 SCPI-TML

#	summary	Tracker
1081	Simulation mode for SCPI TML added	Feature

3.5 VX URM

#	summary	Tracker
1114	Simulation mode for urm drivers added	Feature

3.6 GTML

#	summary	Tracker
1137	MEAS_DMM with limits in uA Range has configuration error for resolution	Bugfix

4 Version 3.2.0

4.1 GTbuilder

#	summary	Tracker
1070	Add function to load a GTbuilder project in simulation mode	Feature
491	Provide "Copy Project" replacing "Save Project As"	Feature

4.2 GTengine

#	summary	Tracker
1078	GTengine Debug: Splashscreen Action "Display User Interface" takes very long after login	Bugfix
1041	Don't execute panel item in second cluster level if first cluster level had ABORT	Feature

4.3 GTS

#	summary	Tracker
1074	Compilation error on GT4000 VXT analysis system	Bugfix
1059	Allow serial execution of different stations in multipanel test	Feature
1058	Real attribute in milli ampere shown in ampere after loading from testplan	Bugfix

4.4 GTML

#	summary	Tracker
1076	Add function to GTML to determine frequency and amplitude of signals	Feature

4.5 GSTL

#	summary	Tracker
1080	SM160 self test - matrix relay off - second measurement negative because of under-range	Feature

4.6 SCPI-TML

#	summary	Tracker
1069	SCPI TML now only scans for instruments, to make sure to add controlable devices to the ini files	Bugfix

5   Version 3.1.1

5.1   GTbuilder

#	summary	Tracker
837	Self-Test (GSTL) shows errors: Device not found, Invalid session handle	Bugfix

5.2   SCPI-TML

#	summary	Tracker
1079	All ..._SCPI methods overwrite comment of step with SCPI command	Bugfix

6 Version 3.1.0

6.1 CSB

#	summary	Tracker
951	add I2C functionality to VX SPI IIC URM Driver	Feature

6.2 GTbuilder

#	summary	Tracker
972	Add Includes and Libraries of TML not before a method of it is used in a GTbuilder project	Bugfix
889	Each test method library should have its own root entry	Feature
816	Make GTbuilder projects independent of folder	Feature
654	Resolve environment variable placeholders in path to HW.ini and SW.ini	Feature
1067	Creating new self test crashes when clicking on finish	Bugfix

6.3 GTengine

#	summary	Tracker
928	Allow loading test package also in test program view	Feature
409	GTESystemControll must also be executable if GTSL from R&S is not installed.	Feature

6.4 GTE API

#	summary	Tracker
996	Add GTE API functions to get lower and upper compare operator from test result	Feature
990	Add GTE API functions to get parameters of fixture and fixture type	Feature
851	KiCad routing: If multiple Connector pins are connected to the same net they are not handled as one net	Bugfix

6.5 GTS

#	summary	Tracker
1038	Additional scalings for units voltage and current	Feature
1035	Saving test plan should only be allowed after program run	Bugfix
1024	Login does not show information if license has expired	Bugfix
1022	multipanel test have no start time and duration is zero	Bugfix
1004	Add information to step result about method / component name and device name	Feature
1000	Duration of retest is always zero and it is not waited until event TEST_RESULT is processed	Bugfix
979	Remove VISA dependency from GTESystemControl - Move scan to SCPI-TML	Bugfix
967	remove VxiIoClient_w32 and VxiIoClient_SFP.exe from GTS installation	Feature
964	Update GTS to VS2022 and Qt 6.8.2 for 32-Bit	Feature
942	Added Binning support	Feature
933	Create Test Method library for LED Tests	Feature

6.6 ICTX

#	summary	Tracker
1032	ICTX resistor with compensation sometimes is negative	Bugfix
1006	ICTx CONTACT component does not show FAILS (count) as result id 0 anymore	Bugfix
995	"Use comparator ""<="" for ICTX components to make upper and lower limit inclusive"	Bugfix
980	ICTX Capacitor: Unit is F and values smaller than uF can not be entered	Bugfix

6.7   SCPI-TML

#	summary	Tracker
1048	WaitingTime in WRITE_SCPI uses ms instead of seconds	Bugfix

6.8   VX_PROG

#	summary	Tracker
1021	Flashrunner programer added to VX_Prog C API	Feature

6.9   VXUrm

#	summary	Tracker
1027	Device not found error from URM when closing handles in wrong order	Bugfix

7 Version 2.7.2

7.1 GTbuilder

#	summary	Tracker
1036	the colors of error message in the output windows is now red	Bugfix
966	path is no longer set to the project order after the test programme has been unloaded	Bugfix

7.2 GTengine

#	summary	Tracker
1046	After test run with 100 iterations the machine capability runs 5000 times	Bugfix

7.3 GTML

#	summary	Tracker
1023	it will be ensured that all GTML comments in the method are passed on to the result with ID 0	Bugfix
1045	MEAS_SCOPE show timout error most of the time	Bugfix

7.4 VX_SPI_I2C

#	summary	Tracker
1053	Simulation mode for SPI and I2C drivers added	Bugfix

8   Version 2.7.1

8.1   GTbuilder

#	summary	Tracker
1009	Add ICT_SETUP to CDF File if no ICTx components were selected	Bugfix

8.2   ICTX

#	summary	Tracker
1007	Rename Transistor and FET to ensure that UBE - UBC and ON - OFF are clearly recognizable	Bugfix

9 Version 2.7.0

9.1 GTS

#	summary	Tracker
923	Save all values to test plan not only changed, add save test plan to GTbuilder	Feature
870	add DriverOption = "Simulate=1 and RangeCheck=1 to SM160 in HW_Setup.ini	Feature
866	Allow resources in resource manager that are not bound to a device	Feature
795	Allow deletion of measurement history also in graph and histogram	Feature
735	Display Current Workspace after closing GTe, GTb oder GTa GUI	Feature
960	Test Program Tree View is blocking when auto select current item is activated	Bugfix
929	Test method attributes with e.g. milli ampere are not set correctly in attribute	Bugfix
914	GTengine hangs when aborting or terminating running test	Bugfix
764	Step result warning not propagated to group result	Bugfix
686	Installer does not contain Version and Copyright Information	Bugfix
576	In new workspace some necessary parameters are missing	Bugfix

9.2 GTengine

#	summary	Tracker
824	Load test program directly after selection in test program view of GTengine	Feature
780	Allow saving and loading step attributes to test plan	Feature
779	Limit station id greater equal 1 for plugin GTETestExec.dll and test programs	Bugfix
652	Fix behaviour if "number of stations" and "number of test program" of product does not match	Bugfix

9.3 GTbuilder

#	summary	Tracker
821	Always use macro CST_ in attributes to provide line number	Feature
804	Rework Third-Party-Importer	Feature
786	GTbuilder: Scroll output window to bottom when compiling	Feature
749	in GTbuilder standard groups can now also be inserted via drag and drop	Feature
709	Introduce alias names in GTbuilder	Feature
590	Warn if GTbuilder project is named like a depending dll	Feature
42	Simplified DISABLE/ENABLE of groups / steps (testprogram editor)	Feature
873	In GTbuilder state of dock widgets Details, Table, Graph, Histogram are not saved and restored	Bugfix
856	ICTX/CDF file should not look different depending if save from ICTX-TML or GTbuilder-Editor	Bugfix
798	Recently projects in GTbuilder are strangely ordered	Bugfix
778	GTbuilder: Making step / group disabled with context menu "Toggle Enable" does not mark project as changed	Bugfix
139	Scaling of unit HERTZ not show correctly in GTbuilder (API: gte_VerifyI)	Bugfix

9.4 GTanalyzer

#	summary	Tracker
734	Implement Multipanel support for GTanalyzer and GTEDBControl	Feature
857	GTanalyzer crashes if imported .gtr file contains skipped test	Bugfix
828	GTanalyzer: Graph shows only first value when selecting measurement / result for multiple (sub) UUT tests	Bugfix
827	GTanalyzer: importing UUT test with two test results only shows last result set	Bugfix
762	Orders with Multipanel-Tests are not correctly shown on Lot-/Order-View	Bugfix
742	Search combo boxes are not always filled correctly	Bugfix
741	Dockwidget windows are not always shown	Bugfix
724	GTanalyzer does not switch language setting correctly	Bugfix
634	GTanalyzer does not save Settings of tables	Bugfix

9.5 GTE API

#	summary	Tracker
934	API function for fetching GTS paths added	Feature
921	Add API functions to Test Prg Info to get name and creator of program	Feature
682	Add GTE Resource Manager function to try to get handle for a device	Feature
674	Support to use a class as step memory	Feature
672	The nominal value shall be made available via API.	Feature
646	Provide information about device utilization in resource manager	Feature
201	API function to get target path of report from test program	Feature
777	Introduce gte_StationForIndex() API Call	Bugfix
748	GTE Routing API: Ignore additional connection in first and last NET	Bugfix
729	introduce gte_StationCount() API Call	Bugfix

9.6 Documentation

#	summary	Tracker
860	Include GT4000 and SSC manual in the installer	Feature
651	Document that STEP_EXIT can not be used in loops	Feature

9.7 GTML

#	summary	Tracker
848	Typo in comment of GTML method "GET INT"	Bugfix

9.8 ICTX

#	summary	Tracker
878	ICTX should save all component value also if unchanged	Feature
875	Rework selection of test pins in contact/short test to be more user friendly and have better performance	Feature
773	ICTx short test show all pins having a short	Feature
945	ICTX short test: If last channel of a SM160 is exclude from short previous channel is not removed	Bugfix
940	ICTX-Short test show short pins without partner pin	Bugfix
922	ICTX capacitor allow more than 10 repetitions	Bugfix
882	Rework pin list selection for ICTX DISCHARGE and TRACK	Bugfix
847	ICTX transistor PNP: Rework initial setup and defaults	Bugfix
629	Don't reorder ICTX component when it is loaded	Bugfix

9.9 SCPI-TML

#	summary	Tracker
890	Move SCPI methods to a own test method library	Feature

9.10 VXUrm

#	summary	Tracker
883	In the URM Panel the bit numbering now starts at 0 and a rescan function was added	Bugfix

10   Version 2.6.2

10.1   GTS

#	summary	Tracker
844	SPI IO Warrior always sends one 00 byte to much	Bugfix
843	VX SPI I2C Driver is now fully compatible with C Standard	Bugfix
825	VX_PPROG_Close crashens if open function was not succesfull	Bugfix
823	VX_SPI_I2C_Close crashens if open function was not succesfull	Bugfix
822	SCPI Scan incorrectly finds RBM32 as SCPI Device	Bugfix
761	support for Aardvark I2C/SPI Host Adapter added	Feature
768	VX_PROG Library is to be tidied up and initially only support the PICkit5	Feature

10.2   GTengine

#	summary	Tracker
776	Deleting test programs and changing station id of test program does not work as expected	Bugfix

10.3   GTbuilder

#	summary	Tracker
837	Self-Test (GSTL) shows errors: Device not found, Invalid session handle	Bugfix
818	GTbuilder crashes in Function OnActivateMultiItems	Bugfix
801	Allow expression as preconditions also for groups like steps	Bugfix

10.4   GTML

#	summary	Tracker
815	NO_LIMIT in MEAS_DCPWR set the lower limit to 0	Bugfix

11 Version 2.6.1

11.1 GTS

#	summary	Tracker
746	GTengine DB Control plugin and GTanalyser will now work with Maria-DB version 11.4	Bugfix

11.2 GTEAPI

#	summary	Tracker
759	new API method introduced to get a Result object via the GroupStep and Result ID. See gte_TestGetResultForIds for mire informations.	Feature
727	new API gte_LotSetAutoIncrementFlag method introduced.	Feature
515	Introduce skip test feature. See gte_UUTSetSkipPanelItem for more informations	Feature

11.3 GTengine

#	summary	Tracker
766	GTengine crashes on second test in production that is no multipanel	Bugfix
760	Using Auto-Login with GTengine always restarts application on close	Bugfix
714	GTE API gte_LotBegin does not cause the order shopping cart to appear	Bugfix

11.4 GTbuilder

#	summary	Tracker
669	Filter selection dialog for test methods shows incorrect method name for ICTX	Bugfix

11.5 ICTX

#	summary	Tracker
740	ICTx Contact cannot be used separately from Short test	Bugfix
713	Error Message Component File Backup Error	Bugfix
708	PSU cannot be initialized when reloading the ICTx test program	Bugfix

12 Version 2.6.0

12.1 GTS

#	summary	Tracker
332	An error has been fixed that causes the parameter "_REPORT_FORMAT_" not to be read correctly	Bugfix
342	Add GTS Resource Management in GTE API	Feature
345	Signal routing via KiCad introduced	Feature
348	The dialog gte_AdjustR has been revised	Feature
390	The GTS login screen checks if the same DLLs are found in the Bin directories of the GTS	Feature
416	Error "No workspace with app usage" if GTstudio has no license	Bugfix
417	Install license: Cannot select license files with extension .lic	Bugfix
418	After "Install License" on Login Screen the workspace combobox is still empty	Bugfix
433	The setupICTX parameter is set in physical.ini as soon as ITCx is used in GTbuilder	Bugfix
448	GTengine crashes as soon as an ICTx component of the type capacitor is clicked	Bugfix
550	The About-Dialogs of GTS now contains the version	Feature
552	In TML method arguments (const char*) characters "%" are wrongly replaced by "percent"	Bugfix
573	Hardware scan has been extended by IO-Warrior56-DG dongle for SPI communication	Feature
633	Data of test step does not display well in the graph when out of limits	Bugfix

12.2 GTEAPI

#	summary	Tracker
415	gte_CheckGTSVersion checks whether a DLL in the dependency path was delivered without a version specification	Feature
431	The display of measured values outside the display window has been improved in gte_AdjustRUpdate_Ex	Feature
515	The gte_UserMessageBoxPicture dialog has been revised	Feature
518	extend route management by routing via resistors	Feature
520	Generate hardware ini from KiCad EDA net file for test system configuration	Feature
527	Generate software ini from KiCad EDA net file for application configuration	Feature
554	Extend GTE device API by get device for name	Feature
568	API description for GTE API test programm revised	Feature
577	ResourceManager API extended to get devices of bench	Feature
607	gte_AdjustRUpdate_Ex shows invalid zero values until fifo is not completely filled	Bugfix
622	Setting relative test program file over GTE API incorrect if other test program not in folder Work is loaded	Bugfix

12.3 GTengine

#	summary	Tracker
13	A bug has been fixed that causes the multi panel test not work with the ICTx	Bugfix
385	New Workspace will not be listed automatically	Bugfix
392	Creation of a product in the GTengine has been improved	Bugfix
494	Rework GTengine error message "Invalid UUT Scan" if product code is not formated as expected	Bugfix
498	Rework GTengine handling of UUT scan delimiter	Bugfix
521	Test Report does not contain date of test	Bugfix
522	Filepath of reports exported from GTEDBControl was sometimes not correct	Bugfix
540	GTS Test Packages introduced	Feature
575	Login screen flickers when returning from GTengine	Bugfix

12.4   GTbuilder

#	summary	Tracker
41	Allow expression as preconditions for steps and groups	Feature
44	Display of variable values and definitions in the tree of the test programme editor	Feature
273	Variables are put into quotes if selected in TML-Method-Parameter of type "const char*"	Bugfix
292	Allow jumping between proptery values in "Item Properties" using TAB	Feature
293	Hardware setup filename with spaces leads to source code file with syntax error	Bugfix
303	Extend property values of programme steps by unit and make unit range selectable	Feature
317	BDL Converter: Fixed output error when converting and added missing components Transistor, FET and Z-Diode	Bugfix
329	ICTx resistors only allow correction of +/- 5 ohms	Bugfix
340	Improve presentation of disabled Steps and Groups	Feature
428	Groups can now also be copied	Feature
429	Operations Delete, Cut, Copy, Move up and down allowed for program items	Feature
430	Don't show horizontal scrollbar in Item Properties of GTbuilder	Bugfix
436	Replace internal source code view by opening Code::Blocks	Feature
446	GTbuilder crashes as soon as an include path is set	Bugfix
451	Opening or bringing Code::Blocks to front should also work if path contains spaces	Feature
456	Use Panel Count from Software Setup of new project in SETUP_GTML	Feature
460	GTbuilder crashes when test program .dll is loaded the second time	Bugfix
488	Selection colour change inconsistency	Bugfix
489	GTbuilder compiler settings are only saved after "Auto Detect"	Bugfix
496	For new steps dragged to tree in GTbuilder the item properties are not shown	Bugfix
504	FET, Transistor, Diode and Z-Diode added to the BDL Exporter	Bugfix
511	HW.ini should be configurable for the whole test system and not be related to the test project	Feature
556	Generate SW.ini AppChannelTable with pins for groups and specific devices (EDA)	Feature
579	Context menu "Toggle Enable" allowed for Defines and Variables	Bugfix
580	Drag & Drop of Defines is now possible	Bugfix
581	Group type of user groups can not be changed after creation	Bugfix
586	PRG-Steps support Compile and Run-Mode	Feature
591	SW.ini is not generated correctly if global HW.ini is selected	Bugfix
600	Precondition combobox always changes to value 0 regardless of previous value	Bugfix
601	Switching to "Show ICT" shows "Reload project?" dialog	Bugfix
623	Insert pasted program item beneath select item	Feature
624	Implement units for upper and lower limits of GTML methods	Feature
632	Various improvements in the operation of ICTx in GTbuilder	Feature
656	The Property "Value" should only be editable for Defines and for variables	Bugfix

12.5   GTanalyzer

#	summary	Tracker
252	Login screen for GTanalyzer has been added	Feature
472	Height of dock widgets on right side of GTanalyzer has been adjusted	Bugfix
473	The bug that double-clicking on parent in search results leads to a crash has been fixed	Bugfix
475	GTanalyzer dialog of configure DB access has beed revised	Feature
477	The image of the GTanalyzer setup screen has been revised	Bugfix
630	Now multiple test result for the same serial number can be found	Bugfix

12.6   GTML

#	summary	Tracker
447	CONF_GTML now displays station index, step name and panel index of the DUT	Feature

12.7   VXUrm

#	summary	Tracker
435	VX Urm - universal relay module - Driver introduced	Feature

13   Version 2.5.3

13.1   GTEAPI

#	summary	Tracker
524	The Graph-R dialog crashes under certain conditions.	Bugfix
538	If the test path NONE is entered for a product in both stations, the NONE can no longer be overwritten.	Bugfix

13.2   GSTL

#	summary	Tracker
529	Test limits of the VF voltages adjusted.	Bugfix
530	AOS AC Test per default deactivated. use _PICT_AOS_AC_TEST_ = 1 in Workspace to run test again	Bugfix

14   Version 2.5.2

14.1   GTbuilder

#	summary	Tracker
493	GTbuilder builds forever in loop if you press Load but get a compilation error.	Bugfix
490	If MinGW/bin is not in path then you get no meaningful compilation error in GTbuilder	Bugfix

14.2   GTS

#	summary	Tracker
524	If demo.lic exists without internet connection other license files are not considered.	Bugfix
449	The GTS Installer now copies the CreateDB.sql script into the GTS Media folder	Bugfix
420	Install current Code Blocks Setup with GTS Setup	Feature

14.3   GSTL

#	summary	Tracker
529	Tolerances for VF2 adjusted to +/- 5%.	Bugfix

15 Version 2.5.1

15.1 GTbuilder

#	summary	Tracker
461	Convert BDL dialogue uses project name for the generated BDL file.	Bugfix

15.2 GTML

#	summary	Tracker
462	Timeout in ACQ_SCOPE no longer results in a test programm having to be reloaded	Bugfix
296	If the PAC module of the PSU is not switched on, an error message will indicate the possible cause	Bugfix

15.3 GTEAPI

#	summary	Tracker
323	gte_GraphRxxx now uses the correct scaling for the X axis.	Bugfix
315	gte_GraphRxxx was very slow when opening large amounts of data.	Bugfix
432	gte_ExecProcess now accepts the command line arguments correctly	Bugfix
324	gte_GraphRConfig - Offset values are now also taken into account for the display	Bugfix

15.4 GTS

#	summary	Tracker
423	A 30-day demo licence is generated during installation. An Internet connection is required for this function.	Feature
442	R&S ICT Correction is able to use SM160 with thread safe UCM Driver	Bugfix

16   Version 2.5.0

16.1   GTengine

#	summary	Tracker
357	The GTML can now also control devices and measure values using SCPI commands.	Feature
352	VI Resources are recognised in the hardware scan and written to Physical and Application.ini	Feature
320	New GTE-API function gte_CheckGTSVersion implemented to check whether the dependencies of GTengine still correspond to the installation status	Feature
318	gte_GraphRxxxx Minor improvements	Feature
316	STDF V4 support added to GTEReportGenerator.dll	Feature
254	Backup path now configurable	Feature
213	Pin location window did not open after first use	Bugfix
206	Tolerance values adjusted in the SSC self-test	Bugfix
202	Passwords are encrypted	Feature
193	Report path now configurable	Feature
184	PXI card recognition GT5000 chassis	Bugfix
103	The order of the stations in the plugin view is now always ascending	Feature

16.2   GTbuilder

#	summary	Tracker
339	Display "Component Box" and "Item Properties" only in drag-n-drop editor view	Bugfix
337	Whitelist area for SourceReader / Writer added in GTbuilder. This ensures that no costum c-functions are lost	Feature
301	Display the current row and column number in the source text view	Feature
295	Loading a programme is permitted even though it has not been compiled or modified after compilation	Bugfix
288	When creating a project, "GTML Setup And Cleanup" should be active by default	Bugfix
284	ICTx/ CDF to BDL converter	Feature
280	Using environment variables in GTbuilder	Feature
279	ICTX components Unit of Upper, Nominal and Lower not clear, Nominal Tolerance not allowed negative	Bugfix
278	Improved handling of umlauts in the source code view	Feature
271	Revise logo for splash screen	Bugfix
251	User roles added in GTbuilder	Feature
250	Workspace concept introduced	Feature
207	Undo framework introduced	Feature
205	Login Screen for GTbuilder	Feature
117	Displayed results are deleted when the focus changes to a dialogue	Bugfix
40	Improved display of groups/steps that have been set to disabled	Feature
20	GTbuilder licencing revised	Feature
174	If the user exports projects from GTbuilder to the Work Directory, these are now stored in a separate directory. This provides a better overview	Feature

16.3   GTanalyzer

#	summary	Tracker
177	Data import fails when importing various special characters	Bugfix
176	No feedback during data import	Bugfix
37	GTanalyzer history table sortable	Feature

16.4 GTML

#	summary	Tracker
383	Resource table is full error message	Bugfix
382	auto select Bench method in GTML implemented	Feature
357	implement SCPI Methids	Feature

16.5 Other

#	summary	Tracker
351	VxiIoClient.exe mit in den Installer aufnehmen	Feature
347	VX_CAN Treiber: Geräteerkennung auf Seriennummer umbauen	Bugfix
307	Set Baudrate for Melexis Chips	Feature
228	Generic CAN driver added, add support for Peak PCAN-USB and Vector CAN Board XL	Feature
105	Update images in PDF documentation	Feature
319	Path to HW.ini should be globally configurable in the workspace	Feature
353	UCM SPI calls not thread safe	Bugfix
358	VisaVX driver extended by a write multi function. SCPI commands can be sent separated by a semicolon (;)	Feature
129	Transistors are not generated correctly in the ICTx	Bugfix

17   Version 2.4.0

17.1   GTengine

#	Summary	type
178	GTEAPI: Function gte_UserMessageBoxPicture does not open a dialogue if the picture is not found	Bugfix
173	GTengine: Login to GTengine not possible by pressing ENTER after changing language	Bugfix
82	GTengine: Existing reports are not overwritten	Bugfix
196	GTEAPI: add gte_GraphEnvelope Functionen	Feature
31	GTEAPI: add gte_AdjustROpen_Ex redesigned	Feature
32	GTEAPI: add gte_GraphAddArrayR_Envelope Functionen	Feature
105	Documentation: update documentaion	Feature

17.2   GTbuilder

#	Summary	type
117	GTbuilder: GTbuilder Debug-View: Displayed results are deleted when the focus changes to a dialogue.	Bugfix
105	Documentation: update documentaion| Documentation	Feature

17.3   GTanalyzer

#	Summary	type
176	A progress bar appears when importing data	Feature
177	Special characters that interfere with the import are filtered out	Feature
105	Documentation: update documentaion	Feature

18   Version 2.3.0

18.1   GTS

#	Summary	type
27	GTEAPI: add gte_ExecProcess	Bugfix
56	GTbuilder: UI crashes when routing editor is used	Feature
82	GTEAPI: add Graph_R funtion	Bugfix
105	Documentation: update documentaion	Feature

19 Version 2.2.0

19.1 GTS

#	Summary	type
104	API: Opaque Pointer Memory Managment	GTengine
124	DebugView: Feature Break On Fail	GTengine
138	GTbuilder: After debugging the item properties are not displayed but debug information	GTbuilder
142	GTbuilder: Selftest Wizzard	GTbuilder
143	GTengine: Umstellung APC-Events auf Signal-Slot-Mechanismus	GTengine
191	DEBUG-View: Autoscrolling in Testprogramm Tree	GTE GUI
216	API: Funktion zum Unstellen des aktuellen DUTS aus Prüfprogramm	GTengine
218	DebugView: Löschen von Sub-Results eines Steps	GTE GUI
220	GTEAPI: gte_verifyX - Neue Step Result Typen	GTengine
227	GTEAPI/GTengine: SAVE-Funktion für ICTX (GTML)	GTengine
228	GTEAPI: Neuer Returnwert für "gte_EnterSTEP"	Andere
234	Debug-View: Machine Capabilities Anlaysis Enhancement	GTengine
238	Report: Modify Testreport Export Format TXT	GTengine
239	GTengine: Service Report	GTengine
240	GTEAPI: Callback-Funktionen für STEPs	GTengine
242	GTengine: Aster Testway Integration	GTengine
245	Erweiterung gte_Verifyx Funktionen	Andere
252	GTEngine: extending logging	GTengine
255	GTGUI: Unite Testprogram Actions for builder and Gtengine GUI	GTE GUI
258	GUI: Use QT Charts for curves and histogram	GTE GUI
260	GUI: Clear Results and Statistics Button/Action	GTE GUI
261	API: Progress Dialog	Andere
262	API: Function to GET Step-Enabled-Flag	Andere
263	GTEAPI: new functions for CheckBox Attributes	GTengine
264	GTML: ICTX implementation	GTML
271	GTE GUI: Unload Testprogram before closing User Interface	GTengine
275	GTML: Overrange DCPWR warning not handled	GTML
277	Documentation: Toolstip in User Interface	Dokumentation
278	ICTX/Aster: Automatic Creation of Application Channel Table	GTengine
284	GTML: GET_TIMER always has negativ value	GTML
286	GTML: Bug in SETUP Route and Bench Count > 1	GTML
291	ICTX: Software Memory usage and performance	GTengine
300	Redesign: Tool for creating HW- and SW-Setup Files	GTengine
305	GTengine: Open Report from GTengine Production View	GTengine
313	Documentation: GTbuilder Doku in Doxygen	Dokumentation
317	DebugView: make debug column first column in tree	GTengine
320	GTE API: Recursion in Attribute Callback	GTengine
321	GTE GUI: Save state of Attribue Tree	GTE GUI
322	DebugView: Redesign Section "Program"	GTengine
323	DebugView: Redesign Section "Validation"	GTE GUI
327	DebugView: Klappbare Menüs als DOCK-WIDGETs	GTE GUI
328	DebugView/API: Neues Step Attribute Element "ACTION BUTTON"	GTengine
329	DebugView: Anzeigen von Array-Daten in PopUp-Dialog	GTE GUI
330	GTML: Dynamischer Aufruf einer externen IVI-Funktion bei SETUP	GTML
332	Report: Generate Report in PDF Format	GTengine
333	DebugView: SCALING gte_DefineAttrSList()	GTE GUI
334	DebugView: Expand Treenode on Step-Into	GTE GUI
340	GTengine: Install Licence Button does not work	GTengine
341	GTbuilder: ICTX On-The-Fly Compensation Support	GTbuilder
342	ICTX: System Compensation	GTML
345	GTEAPI: new functions setting Attribute tooltip and backgroundcolor	GTengine
346	GTEAPI: New Step Attribute REAL GRAPH (RG)	GTengine

#	Summary	type
347	GTEAPI: additonal Category-Levels for Step-Attribute	GTengine
344	GTengine: Assign testprogram to specific CPU Cores	GTengine
353	GUI: Main View Station Display slows down Test	GTE GUI
356	GTbuilder: Display Component in Boardview when selected	GTbuilder
359	Report: Decimals representation of floating Points	GTengine
360	Report: No new Directory with day change	GTengine
369	GTengine: Display Execution Times for Results	GTengine
372	GTE GUI: Recent Files List for Testprograms	GTE GUI
380	PDM30: Driver update to Hardware Revision 2	PDM30
385	GTengine: Report Formate JSON	GTengine
387	GTML: Get ICT ProgramID with GETI_GTML function	GTML
388	GUI: DebugTree has wrong Duration with Result ID 0	GTE GUI
390	GTengine: Include Slot Index in Device Info	GTengine
391	GTengine: New Standard Group Funktion CompensationRun	GTengine
392	GTbuilder: DND for ICTX	GTbuilder
393	GTengine: API Funktion to Expand Plugin TreeView	GTengine
394	GTengine: GTSLicense does not handle multiple fies properly	GTengine
398	Report Viewer: Reports from Testprogram View can not be diplayed	ReportViewer
415	ICTX: Varianten werden nicht in cdf gespeichert.	GTML
416	ICTX: Summery for all CDF errors instead of individual Popups	GTML
417	DebugView: Treeview enhancements 2	GTE GUI
420	GTbuilder: GUI crash after changing limits of MEAS_DCPWR method	GTbuilder
421	GTbuilder: default ID of compensate ICTX leads to ID violation	GTbuilder
424	GTbuilder: GTbuilder chrashes after closing a project	GTbuilder
432	DebugView: Disable Breakpoints	GTE GUI
433	DebugView: Save window floating state	GTE GUI
434	DebugView: Multiselect of Steps and Editing Attributes	GTE GUI
435	DebugView: Undo Editing Attribute	GTE GUI

20 Version 2.1.14

20.1 GTS

#	Summary	type
460	GTengine: MSG_XXX API function will also be logged into the GTE standard log file	enhancement

21 Version 2.1.13

21.1 GTS

#	Summary	type
452	GSTL: Anpassung Messtimings SM160	enhancement
454	GSTL: PICT Shortcut CMU for SFT	enhancement

22 Version 2.1.12

22.1 GTS

#	Summary	type
441	GTML: Limit for AppChannelTable entries of 2560 is too less	defect

23 Version 2.1.11

23.1 GTS

#	Summary	type
439	GTGUI: Display Multipanel Faults	defect

24 Version 2.1.10

24.1 GTS

#	Summary	type
397	GTengine: Support for SXC - ZusatzChassis	feature_request
402	SM160: Debounce Times	defect

25   Version 2.1.9

25.1   GTS

#	Summary	type
375	SSC: Use Device Name GDSSC in physical.ini	defect

26   Version 2.1.8

26.1   GTS

#	Summary	type
365	GTengine: Don't require a fixture when requesting a cluster levels	enhancement
366	GTengine: API function for Setting Image File	enhancement
368	GTE GUI: Automatically abort Lot on window close	enhancement

27   Version 2.1.7

27.1   GTS

#	Summary	type
354	GTML: SSC OD port initialized with 0x0009 (VFx disable)	defekt
355	SSC: Set Type Ident to "SSC" instead of "IVI_SWITCH"	task
362	GTengine: Inform about Retest before finishing Test, new Event TEV_UUT_TEST_RETEST_IDENTIFIED	enhancement
361	GUI: Display Product Identifikation with a larger Font	enhancement

28   Version 2.1.6

28.1   GTS

#	Summary	type
319	GSTL: Selftest for SSC	task
324	GTE API: Additional Function to modify product MultiPanel attributes	enhancement
325	ProductionView: Display Multipanel Items on Image	enhancement
326	DebugView: Display Test index in Table Section	enhancement
339	Report: Generate reports when retesting	enhancement
330	GTML Version 2.1.12: dynamic calls of external IVI-Functions during Setup	enhancement

29 Version 2.1.5

29.1 GTS

#	Summary	type
314	GTML: Fixed not working Pin Location Use application Ini Flag to disable ICTX-Setup and use eGTSL ICT	defect
100	fixed typos and translations	task

30 Version 2.1.4

30.1 GTS

#	Summary	type
308	GTEngine: Retest Multipanel does not wait for all stations	defect
287	GTML: GTML Cleanup does not close handles with bench count > 1	defect
307	GTengine: Reportfile Names containing CR LF	defect
306	GUI: Display Panel Index in Message window when restesting	enhancement
310	GTEAPI: API function to get current Step Result	enhancement
309	GTengine: Display scaled values in machine capability analysis and report	enhancement

31 Version 2.1.3

31.1 GTS

#	Summary	type
299	GUI: Testprogram tree LogInReport color covers disable color	defect
301	GTEngine: Trigger Test on Thread directly	defect
302	GTEAPI: scaled values from PRESULT structure	enhancement
303	GTengine: MCA Report does not display very small lower and upper limits	defect

32 Version 2.1.2

32.1 GTengine

#	Summary	type
250	RFID: Debug Output and Documentation for RFID Fixture needed	enhancement
254	GUI: Station Display has white Color after Multipanel Test	defect
267	GTengine: Stopping Lot during Multipanel	defect
269	Logging: RollingFileAppender not working?	defect
281	GTengine: Engine crashes when uut and/or uutest manger has items	defect
283	UCM: Parallel opening devices	defect
287	GTML: GTML Cleanup does not close handles with bench count > 1	defect
288	GTEAPI: new function for UUT Panel Item Count	enhancement
294	GTEngine: Retest Multipanel does not work	defect
295	GTAPI: SetPanelIndex on MultiPanel	defect
296	GTEngine: Deadlock/Crash when polling gte_Isrunning in Event funktion and closing GTengine	defect
297	GTEAPI: functions gte_ResultUnitStr and gte_ResultUnit return no value	defect

33   Version 2.1.1

33.1   GTengine

#	Summary	type
219	GTEAPI: Dynamic/Changable limits via RESULT functions	enhancement
251	Report: Real envelope Data	defect
272	GTML: wrong connexion of VF1...3 ENABLE signals	defect
273	GTengine: Save Report without Lot Information	enhancement
274	GSTL: PSU Selftest not stable	defect

34   Version 2.1.0

34.1   GTS

#	Summary	type
133	API: Testprogram-Attribute fuer Steps und Gruppen via API Funktionen	enhancement
141	GTML: Methoden für ICT mit R&S Messtechnik	enhancement
145	Benutzerverwaltung: Log-In Event & Benutzerwechsel nach Start-Up	enhancement
146	Production View: Neugruppierung der Bedienelemente	enhancement
147	Production View: Userabhängige/konfigurierbare Bedienelemente	enhancement
148	Production View: Farbe des Hintergrunds einstellbar/programmierbar	enhancement
149	Alle Views: Dynamisches Erzeugen von Anzeige-und Bedienelementen	enhancement
152	GTbuilder: ICTX-Methoden einbinden	enhancement
153	BUG: Löschen eines geladen Auftrags	defect
154	API: Functionen zum Anlegen Produkte aus Plugin&enhancement	
159	GTML: Parallelsystem kann ICT nicht erneut laden&defect	
167	DEBUG-View: Toolbar-Button für PINLOCATION	enhancement
170	DEBUG-View: Testindex in Toolbar verschieben&enhancement	
171	API: Funktionen für Logging	enhancement
172	UCM: Fehler bei mehrfachem Öffnen eines Gerätes	defect
174	Main-View: Anzeige Fixture als SystemParameter	enhancement
177	Hardwareerkennung: Rohde&Schwarz PSM4 Karten	enhancement
181	GTengine-GUI: Theme und Look&Feel anpassen	enhancement
182	Hardwareerkennung: Namensvergebung SM160 bei Enumeration	enhancement
185	GTML: fehlende Methode PINTEST_ICT	enhancement
187	Report: Whitespaces und Zeilenumbrüche in Kommentaren	defect
188	GSTL: Pseudofehler bei PSM2 Selbsttest	defect
189	DEBUG-View: Testplan Speichern Dialog abschaltbar	enhancement
190	Main-View: Anzeige TEST TIME in zyklisch updaten	enhancement
192	BUG: nach AbortNow wird Unload Gruppe nicht ausgeführt	defect
193	GTML: möglicher Absturz bei GETS_ROUTE	defect
194	GTengine: Splashscreen aktualisieren	task
197	BUG: Test wird in Gruppe PrepareTest und negativem TEV_TP_GROUP_PREPARE nicht abgebrochen	defect
201	Neue Methodengruppe ICTX in GTbuilder	enhancement
202	DEBUG-View: Anzeigen/Modifizieren eines Testplans	enhancement
203	DEBUG-View: Laden/Speichern eines Testplans	enhancement
204	BUG: Änderung Testplans nur mit ALL_RIGHT möglich	defect
205	DEBUG-View: Anzeige für Toggle ENABLE	defect
206	DEBUG-VIEW & WINDOWS START: Anzeige von PDF-Dateien	enhancement
207	DEBUG-View: CSV-Export des Testergebnisses	enhancement
208	BUG: Leerstring als Passwort verhindert Login	defect
210	API: Neue Attribute-Funktionen für String-Listen	enhancement

#	Summary	type
211	API: Rückgabewert der Attribute-Funktionen	enhancement
213	GTML: PIO2 entladen über GTML 1.6	defect
217	GTML: Abfrage Seriennummer aus GTML	enhancement
221	API: Auto ID Generation	enhancement
222	GTengine: Hardwarescan über mehrere Controller	enhancement
225	DebugView: Attribut-Ausgabe mit Steuerzeichen	defect
226	GTEAPI: Attribute SList Funktionen überarbeiten	enhancement
229	GSTL: Optimierungen Selbsttest	enhancement
230	GTengine: Invert Result führt zu Fehler beim Laden eines Programms	defect
231	GTengine: leerer Testplan	enhancement
232	DebugView: Kommentare mit Steuerzeichen und Tooltip	defect
233	GSTL: Versionsnummer Anzeige	enhancement
237	GTengine: Configuration Testprogram ohne Stations	defect
241	GTML: SET_DCPWR CurrentBehaviour für PWM-Mode	defect
243	GTengine: Floating Point Exceptions mit NaN values	enhancement
244	API: Attribute Methoden in Private Header umziehen	defect
247	GTML: PSU device not closed in ICTX method	defect
248	DebugView: Reset to Defaults not working with resuts ID 0	defect