

# History for R&S® NRP-Z Instrument Drivers

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NRP-Z History		
Revision	Date	Note
2.1.8	10/2011	Modifications: - fixed compatibility issues on 64-bit OS when VISA is included - rsnrpz_GetSensorInfo, channel index starts at 1 for first sensor - rsnrpz_chan_isMeasurementComplete checks if sensor is still alive
2.1.7	06/2011	Modifications: - added function rsnrpz_corr_getSPParamDevList() - clearing errors in rsnrpz_defaultInstrSetup() - clear session in case of errors during rsnrpz_init() - exporting functions rsnrpz_status_setDeviceChangedCallback() and rsnrpz_GetSessionControlHandle() only when not running under VEE
2.1.5	04/2011	Modifications: - fix situation where rsnrpz_close() will be called by a user with a session which was already closed before (now returning VI_ERROR_PARAMETER1 in this case) - better compatibility with CVI below V9.0 - fixed LFR & UFR parameter of rsnrpz_chan_zeroAdvanced() - fixed problem when unplugging sensor during measurement - bugfix in rsnrpz_NotifyCommand where LeaveCriticalSection may have been called without EnterCriticalSection - improved trace functionality - removed unused/old code fragments left over from 2.10 change - 'external' interface information (ViSession) always is a 32-bit entity now, even with the 64-bit version of the driver - Fixed define of PEAK algorithm in trace measurement
1.95	07/2010	Modifications: - New functions: - added NrpDeviceChangedCallback - added rsnrpz_status_setDeviceChangedCallback - changed some defines to constants - added panels for functions: rsnrpz_status_driverOpenState rsnrpz_service_getDetectorTemperature rsnrpz_service_startSimulation rsnrpz_service_setSimulationValues rsnrpz_service_stopSimulation
1.93	03/2010	Modifications: - New functions: rsnrpz_chan_setCorrectionFrequencyStep rsnrpz_chan_getCorrectionFrequencyStep

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		rsnrpz_chan_setCorrectionFrequencySpacing rsnrpz_chan_getCorrectionFrequencySpacing rsnrpz_chan_getContAvBufferCount rsnrpz_chan_getContAvBufferInfo rsnrpz_scope_setEquivalentSampling rsnrpz_scope_getEquivalentSampling rsnrpz_scope_meas_setTime rsnrpz_scope_meas_getTime rsnrpz_scope_meas_setEquivalentSampling rsnrpz_scope_meas_getEquivalentSampling rsnrpz_scope_meas_getSamplePeriod rsnrpz_calib_test rsnrpz_calib_getTestDeviation rsnrpz_calib_getTestReference - Modified functions: rsnrpz_SetBitInRegisters rsnrpz_SetRegister  - added rsnrpz_chan_getCacheRange() (for internal use by PowerViewerPlus) - bugfix in rsnrpz_FormatCommand() (C locale) - changed recognition of supported commands (not using sensor type anymore, but feature-bits from sensor). "Old" behaviour still available by defining USE_CHECKINSTR
1.80	12/2008	- fixed handling of automatic pulse parameter measurement results in conjunction with isMeasurementComplete()
1.79	11/2008	- dropout time handling no longer limited to NRP-Z81 only (relies on sensor features now) - reading pulse measurement's scalar results from cache instead of requesting them from the device again
1.73	05/2008	Please use NRP-Toolkit 1.7.3  - fixed memory leak in NrpDataAvailableCallback for aux channels - added (char*) type casts to get rid of gcc -Wwrite-string warnings: 'deprecated conversion from string constant...'
1.71	03/2008	Please use NRP-Toolkit 1.7.0  - thread-safe initialization and fixed some LINUX compiler warnings
1.70	03/2008	- fixed deadlock situation in error handling
1.69	03/2008	- fixed compilation under LINUX (stricmp() was missing)
1.68	03/2008	- cleared LabWindows/CVI compiler/linker warnings
1.67	02/2008	Please use NRP-Toolkit 1.6.0 or later  Modifications: - fixed compilation problem with #included "visa.h"
1.66	01/2008	Please use NRP-Toolkit 1.6.0  Modifications: - integrated latest version of NrpControl2.dll NRP-Toolkit 1.6.0
1.65	01/2008	Modifications: - added SYST:INFO item 'FPGA Build', and made item check case insensitive

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1.64.1	12/2007	Modifications: - fixed installer of VXI Plug&Play driver - added fixed LIB files. Please note that revision of DLL and driver remains 1.64.
1.64	11/2007	Modifications: - added conditional defines for LINUX compilation HINT: There is currently no notification mechanism for service requests (SRQ) under LINUX ! - added rsnrpz_GetSensorCount() and rsnrpz_GetSensorInfo() - fixed rsnrpz_chan[s]_isMeasurementComplete checks in Statistics modes
1.63	08/2007	Modifications: - added rsnrpz_GetAvailableSensors() to retrieve a list of all actually connected sensors
1.62	07/2007	Modifications: - fixed usage of the same event-handles for both read and write operations due to Rev 1.60 changes (rsnrpz_meass_readMeasurement() did not work any more)
1.61	06/2007	Modifications: - fixed CriticalSection issue
1.60	06/2007	Modifications: - fixed usage of more than one session at a time. In that case the rsnrpz_close() unloaded/closed the NrpControl driver as soon as the first session was closed. This was wrong! NrpCloseDriver() is only allowed to be called after the LAST session was closed!
1.51	05/2007	Modifications: - New functions: rsnrpz_trigger_setMasterState rsnrpz_trigger_getMasterState rsnrpz_trigger_setSyncState rsnrpz_trigger_getSyncState
1.50.	02/2007	Modifications: - enhanced version of rsnrpz_init(); now queries the registry to find out whether a long distance connection should be established (for 'AnywhereUSB' remote hub)
1.40	10/2006	Modifications: - New functions: rsnrpz_get_timeout rsnrpz_set_timeout Fixes a timeout-terminated hang in USB Write Functions on Windows XP Embedded
1.31	08/2006	Modifications: - New functions: rsnrpz_bandwidth_setBw rsnrpz_bandwidth_getBw rsnrpz_bandwidth_getBwList rsnrpz_chan_setBurstChopperEnabled rsnrpz_chan_getBurstChopperEnabled Timegates subsystem rsnrpz_tslot_setTimeSlotMidOffset rsnrpz_tslot_getTimeSlotMidOffset rsnrpz_tslot_setTimeSlotMidLength rsnrpz_tslot_getTimeSlotMidLength rsnrpz_tslot_setTimeSlotChopperEnabled rsnrpz_tslot_getTimeSlotChopperEnabled rsnrpz_trigger_setDropoutTime rsnrpz_trigger_getDropoutTime rsnrpz_chan_setAuxiliary

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		rsnrpz_chan_getAuxiliary rsnrpz_meass_readMeasurementAux rsnrpz_meass_fetchMeasurementAux rsnrpz_meass_readBufferMeasurementAux rsnrpz_meass_fetchBufferMeasurementAux rsnrpz_stat_confTimegate rsnrpz_stat_confScale rsnrpz_stat_setOffsetTime rsnrpz_stat_getOffsetTime rsnrpz_stat_setMidOffset rsnrpz_stat_getMidOffset rsnrpz_stat_setMidLength rsnrpz_stat_getMidLength rsnrpz_stat_setScaleRefLevel rsnrpz_stat_getScaleRefLevel rsnrpz_stat_setScaleRange rsnrpz_stat_getScaleRange rsnrpz_stat_setScalePoints rsnrpz_stat_getScalePoints rsnrpz_stat_getScaleWidth rsnrpz_scope_fastZero rsnrpz_corr_setSPParamDevice rsnrpz_corr_getSPParamDevice rsnrpz_chan_setReflectionGammaUncertainty rsnrpz_chan_getReflectionGammaUncertainty rsnrpz_chan_zeroAdvanced
1.30	11/2005	Modifications: - FPHelp fixed - command Index Added into CHM - Added support of NRP-Z37, 27, 81  - Modified functions: rsnrpz_chan_mode - New functions: rsnrpz_chan_configureReflectGammaCorr rsnrpz_chan_setReflectionGammaMagn rsnrpz_chan_getReflectionGammaMagn rsnrpz_chan_setReflectionGammaPhase rsnrpz_chan_getReflectionGammaPhase
1.22	05/2005	Modifications: Fixed description in: - rsnrpz_trigger_configureInternal - rsnrpz_trigger_setLevel - rsnrpz_trigger_getLevel
1.21	04/2005	Modifications: - Fixed rsnrpz_CloseSensor - forces freeing of user data
1.20	11/2004	Modifications: - Fixed NrpControl2.dll - Fixes rsnrpz_AddSensor ()
1.19	08/2004	Modifications: - Fixed NrpControl2.dll
1.18.	03/2004	Modifications: - Fixed NrpControl2.dll - Instrument Descriptor: If only one sensor is connected it is possible to use * for the product id or the serial number

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1.17	12/2003	Modifications: - Removed debug lines with MessageBeep function (now it's 10x faster)
1.16	11/2003	Modifications: - Added new NrpControl2.dll (revision 01.21) - Float parameters are formatted with %e instead of %f - Minor changes in FP file - Fixed rsnrpz_status_checkEvent function - Changed default value of transition from PTR to NONE - changed function rsnrpz_InitializeRegisters - changed FP of rsnrpz_status_catchEvent - Fixed rsnrpz_chan_infosCount
1.15	09/2003	Modifications: - Added new NrpControl2.dll (revision 01.21) - Minor changes in FP file
1.14	08/2003	Modifications: - Added new Nrpcontrol2.dll (revision 01.20)
1.13	08/2003	Modifications: - Added VISA constants and types into header file. VISA is not required.
1.12	07/2003	Modifications: - Fixed bug in the error callback
1.11	07/2003	Modifications: - ignored Sample Error in release version. - used macro constant for device errors instead of magic numbers - isMeasComplete functions don't reflect measurement bits and they return TRUE when data are available. When functions return TRUE and new data has not been received, all other isMeasurementComplete function calls return FALSE.
1.10	07/2003	Modifications: - Fixed rsnrpz_chans_isMeasurementComplete and rsnrpz_chan_isMeasurementComplete. Functions do not return VI_TRUE when sensor is in wait for trigger state - Fixed functions rsnrpz_chans_zero and rsnrpz_chan_zero. These function do not wait for acknowledge. - Added better checking for invalid session handle - Fixed functions rsnrpz_avg_setAutoEnabled, rsnrpz_avg_getAutoEnabled, rsnrpz_scope_setAutoEnabled, rsnrpz_scope_getAutoEnabled. - If direction is RSNRPZ_DIRECTION_PTR, and is then set to RSNRPZ_DIRECTION_NTR, the ...PTR is removed - rsnrpz_close and rsnrpz_CloseSensor functions send *RST. - Installer distribute NrpControl2.dll v01.10
1.01	06/2003	Modifications: - Cosmetic changes in the help - Fixed rsnrpz_error_message function (translate NrpControl2 errors) - Fetch function returns an error when data are not available - Fixed functions rsnrpz_chans_isZeroingComplete and rsnrpz_chans_isMeasurementComplete
1.00	05/2003	Driver created