Application Note:

Migration from TS_RW_SDK to TS_LF_SDK

Version 1.00

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Ownership conditions:

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1. Introduction

The TS_LF_SDK replaces the existing TS_RW_SDK and extends access to new device generations. As long as only TS-W34, TS-W36 and TS-W64 devices are used, migration to TS_LF_SDK is not needed.
If also TS-RW38 or TS-RW68 devices shall be in scope, the TS_LF_SDK has to be used, because these devices are not supported by TS_RW_SDK.

Function names of all function have been changed; all function names ha a prefix of TSLF_ instead of TSRW_.

Many functions of the existing SDK are available using the new name and can be ported easily.

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2. Function overview

Comparison chart of functions from TS_RW_SDK and TS_LF_SDK.
The mostly used functions and their replacement are shown here. Basically such functions are summarized which were available for different transponder types separately.

2.1. General functions

TS_RW_SDK	TS_LF_SDK	Comment
TSRW_LibVersion	TSLF_LibVersion	Direct replacement of function
TSRW_CountAllDevices	-	No longer supported, use GetUSBDeviceNames directly to get the devices.
TSRW_ListAllDeviceNames	TSLF_GetUSBDeviceNames	Direct replacement of function
TSRW_GetAvailablePorts	TSLF_GetCOMDeviceNames	Direct replacement of function
TSRW_LanListAllDeviceNames	TSLF_GetLanDeviceNames	Direct replacement of function
TSRW_OpenPort	TSLF_Open	Respect additional parameter for parity mode.
TSRW_ClosePort	TSLF_Close	Direct replacement of function
TSRW_DeviceVersion	TSLF_GetDeviceVersion	Respect additional parameters for device name.
TSRW_GetLastError	TSLF_GetLastError	Direct replacement of function
TSRW_SetReaderMode	TSLF_SetReaderMode	Direct replacement of function
TSRW_SetRF	TSLF_SetRF	Direct replacement of function
TSRW_SetIO	TSLF_SetIO	Direct replacement of function
TSRW_ReadIO	TSLF_ReadIO	Direct replacement of function
TSRW_RawRead	TSLF_RawRead	Direct replacement of function
TSRW_RawWrite	TSLF_RawWrite	Direct replacement of function
TSRW_Transfer	TSLF_Transfer	Respect additional parameter Cmd. At TSLF_Transfer the command is splitted from the data. Also for Send or Receive buffer now NULL pointers can be given if no data is send or expected.
TSRW_SetFilterParam	TSLF_SetFilter	Respect differences! This function is for TS-RW38 series mostly no longer needed.

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2.2. Block access transponder dependent

TS_RW_SDK	TS_LF_SDK	Comment
TSRW_Hitag_1_CCNew	TSLF_UID_Request	Additional parameter for Transponder type
TSRW_Hitag_2_StartAuth	TSLF_UID_Request	Additional parameter for Transponder type
TSRW_Hitag_S_UID_Request	TSLF_UID_Request	Additional parameter for Transponder type
TSRW_Hitag_1_UID_Select	TSLF_Select	Additional parameter for Transponder type
TSRW_Hitag_2_Select	TSLF_Select	Additional parameter for Transponder type
TSRW_Hitag_S_UID_Select	TSLF_Select	Additional parameter for Transponder type
TSRW_Read	TSLF_Read	Direct replacement of function
TSRW_Write	TSLF_Write	Direct replacement of function
TSRW_ResetTransponder	TSLF_ResetTransponder	Direct replacement of function

2.3 Read and write Data formats

TS_RW_SDK	TS_LF_SDK	Bemerkung
TSRW_Read_Unique	TSLF_Read_Unique	No transponder type necessary.
TSRW_Write_Unique	TSLF_Write_Unique	No more additional steps necessary
TSRW_Read_ISO11784	TSLF_Read_FDXB	No transponder type necessary.
TSRW_Write_ISO11784	TSLF_Write_FDXB	Now only writing with formatting and check is supported.
TSRW_CheckFormatAndWrite_ISO11784	TSLF_Write_FDXB	
TSRW_Read_EN14803	TSLF_Read_EN14803	No transponder type necessary.
TSRW_Write_EN14803	TSLF_Write_EN14803	Now only writing with formatting and check is supported.
TSRW_CheckFormatAndWrite_EN14803	TSLF_Write_EN14803	
TSRW_Read_Biphase128	TSLF_Read_TTFData	Respect changed parameter list, not transponder type necessary.
TSRW_Read_Manchester64	TSLF_Read_TTFData	Respect changed parameter list, not transponder type necessary.
TSRW_Read_Manchester128	TSLF_Read_TTFData	Respect changed parameter list, not transponder type necessary.