

Open Source Developement



Release Notes for TRDP 2.0.1.0

Document reference no: TCN-TRDP2-D-BOM-030-14

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Organisation:
Document date:
Bombardier
30. August 2019

Revision: 14 Status: issued

Dissemination Level		
PU	Public	X
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Please note, that the code is not yet used in a real project and has been tested only in the lab and only for the test cases documented in [TestRep].

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V1	11 June 13	Armin-H. Weiss	Initial version
V2	14 June 13	Armin-H. Weiss	Release 1.0.1.0
V3	21 Oct 13	Armin-H. Weiss	Release 1.1.0.0
V4	15 Dec 14	Armin-H. Weiss	Release 1.2.1.0
V5	30 May 17	Armin-H. Weiss	Release 1.3.2.0
V6	30 June 17	Armin-H. Weiss	Release 1.3.2.0, #160 added
V7	12 July 17	Armin-H. Weiss	Release 1.3.2.0, TRDP_SPY updated
V8	12 July 17	Armin-H. Weiss	Release 1.3.2.0, editorial changes
V9	13 July 17	Armin-H. Weiss	Release 1.3.3.0
V11	7 Nov 18	Armin-H. Weiss	Release 1.4.0.0
V12	15 Nov 18	Armin-H. Weiss	Release 1.4.1.0
V13	13 June 19	Armin-H. Weiss	Release 1.4.2.0
V14	28 Aug 19	Armin-H. Weiss	Release 2.0.1.0



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1. Introduction

1.1. Purpose

This document is the Release Notes for the Bombardier* Release of TCNOpen* TRDP* Version as implementation of the communication profile defined in [Wire].

1.2. Intended Audience

The audience of this document and the users of the release are software engineers that want to adapt or to use TCNOpen* TRDP* as implementation of the communication profile defined in [Wire].

1.3. References/Related Documents

Reference	Number	Title
[Wire]	IEC61375-2-3 FDIS	Communication Profile
[TestRep]	TCN-TRDP2-D-BOM-032-07	TRDP Conformance Test Report 2.0.1.0
[UserMan]	TCN-TRDP2-D-BOM-011	TRDP User's Manual
[RefMan]	TCN-TRDP2-D-BOM-033	TRDP Reference Manual

Table 1: References

1.4. Abbreviations and Definitions

Abbreviation	Definition
PD	"Process Data"
	Part of the in [Wire] defined communication protocol used for cyclic data transmissions based on UDP protocol.
UDP-MD	"UDP Message Data"
	Part of the in [Wire] defined communication protocol used for event driven data transmissions based on UDP protocol.
TCP-MD	"UDP Message Data"
	Part of the in [Wire] defined communication protocol used for event driven data transmissions based on TCP protocol.
ETBN	Ethernet Train Backbone Node
TSN	Time Sensitive Network

Table 2: Abbreviations and Definitions

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2. Product Definition

2.1. General Description

The TCNOpen TRDP is an open source implementation of communication profile described in [Wire] and includes compiled libraries for primary targets and source code to be used for other platforms as well as examples for reference implementation.

TCNOpen TRDP includes:

- TRDPLight (the communication protocol stack for PD, UDP-MD and TCP-MD)
- TRDP Marshall a service for marshalling/unmarshalling TRDP user data
- TRDP XML a service for reading TCNOpen TRDP XML configuration files
- TRDP CTRL a service to control the ETBN functionality
- TRDP DNR a service for IP-URI address translation
- TRDP TTI a service to access the train topology information data base of the ETBN
- TRDP SOA a service to support service oriented architecture
- TRDP SPY a wireshark plugin to interprete TRDP telegrams

It does not yet include:

- TRDP LADDER ladder support acc. to IEC61375-3-4
- TRDP SDT a service for safe data transmission according to the definition in [Wire]



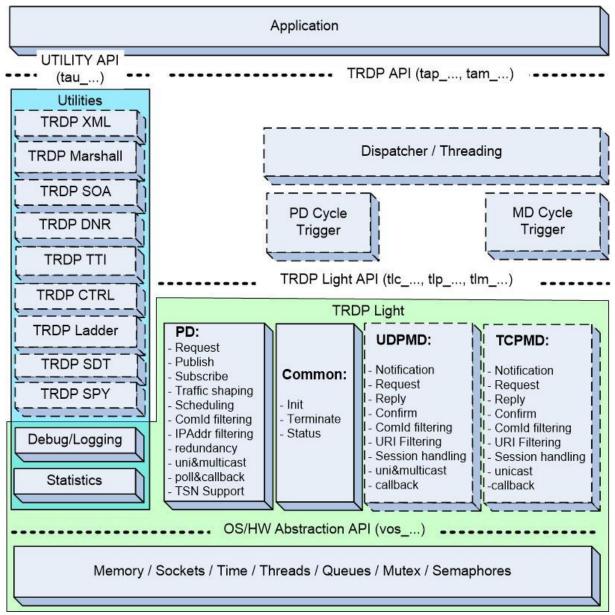


Figure 1 TRDP Modular Structure

2.2. License Agreements

The TRDP Source Code (except the TRDPSpy source code) is subject to the terms of the Mozilla Public License, v. 2.0.

If a copy of the MPL was not distributed with this document, You can obtain one at http://mozilla.org/MPL/2.0/.

The TRDPSpy Source Code Form is subject to the terms of the GPL.

2.3. Product Identification

TCNOpen TRDP contains the following parts:



Abbreviation	Identification	Remark
TRDPLight		
TRDPMarshall		
TRDPXML		
TRDPSpy		only Win64 and Linux64
TRDPCTRL		Not tested
TRDPLadder		
TRDPDNR		
TRDPTTI		
TRDPSOA		
TRDPSDT		Only under special license agreement with Bombardier

Table 3: Product Identifications

2.4. Targets

2.4.1. Primary Targets

TCNOpen TRDP is provided for a set of primary targets. Outputs for these have been verified during the release process.

Target	Use	os	CPU-HW
Linux PC	General	Linux 64 bit	x86 comp.
Windows PC	General	Windows 10 64 bit	x86 comp.
Apple Mac	General	MacOS	x86 comp.

Table 4: Primary Targets

2.4.2. Secondary Targets

TCNOpen TRDP is also delivered as an SDK with source code and example makefiles only. The makefiles serve as examples for building the binaries for different platforms and can be used as a template for specific platform builds. The following table shows the builds which have not been tested but have been taken care of within the source code.

Target	Use	os	CPU-HW
Linux PC	General	Linux 32 bit	x86 comp, Power PC, ARM
Windows PC	General	Windows7 32/64 bit	x86
Embedded Controller	General	VxWorks	PowerPC

Table 5: Secondary Targets



3. Delivery

3.1. Platform

Target	File	Description
Windows PC ¹ ,		This version does not include ready
VxWorks,		compiled libraries and DLL but
Linux (Posix) ² ,		source code and build environments.
MAC (Posix),		
QNX (Posix),		
Integrity (Posix)		

Table 6: Platform Delivery Content TRDPLight

Target	File	Description
Windows PC ¹ ,		This version does not include ready
VxWorks,		compiled libraries and DLL but
Linux (Posix) ² ,		source code and build environments.
MAC (Posix),		
QNX (Posix),		
Integrity (Posix),		

Table 7: Platform Delivery Content TRDPMarshall

Target	File	Description
Linux PC ² , Windows PC ¹ ,		This version does not include ready compiled libraries and DLL but source code and build environments.

Table 8: Platform Delivery Content TRDPXML

Target	File	Description
Linux PC ² , Windows PC ¹ ,		This version does not include ready compiled libraries and DLL but source code and build environments.

Table 9: Platform Delivery Content TRDPCTRL

Target	File	Description
Linux32	\spy\linux32\packet-trdp_spy.so	Linux32 Wireshark plugin
Win64	\spy\win64\trdp_spy.dll	Win64 Wireshark plugin
Win64	\spy\win64\readme.txt	Readme for Win64 Wireshark plugin

Table 10: Platform Delivery Content TRDPSpy

=

¹ 32 bit and 64 bit

² 32 bit and 64 bit



3.2. SDK

To also support other targets than the platform does, TCNOpen TRDP is delivered as an SDK (Software Development Kit). The release is available under SourceForge (https://svn.code.sf.net/p/tcnopen/trdp/tags/trdp/2.0.1.0)". The release comprises items according to the tables below using the following file structure:

DirLevel1	DirLevel2	DirLevel3	Description
config			XML configuration structure and build environ-
			ment configurations
doc			Documentation
resources			Open source resources used within TRDP
	posix		
	windows		
		getopt	getopt functionality for test programs
		iconv	XML Parser functionality
		libxml	XML parser functionality
		pthread	Posix threads for vos functionality
		wireshark	Wireshark win64
src			TRDP source code
	api		TRDP API header files
	common		TRDP source code files
	example		TRDP example application files
	vos		VOS source code and header files
		api	VOS API header files
		common	VOS target independing source code files
		posix	VOS POSIX depending source code files
		vxworks	VOS VXWORKS depending source code files
		windows	VOS WIN32 depending source code files
spy			Wireshark plugin for TRDP
	doc		Documentation
	src		Source code for wireshark plugin
	linux32		Plugin for Linux32
	Win64		Plugin for Win64
test			
	diverse		Test diverse functions of the library
	laddermdtest		Test of the TRDP ladder MD functionality
	ladderpdtest		Test of the TRDP ladder MD functionality
	lint		PCLint profile for Windows
	marshalling		Test of marshalling/un-marshalling
	mdpatterns		Test of the TRDP MD patterns



DirLevel1	DirLevel2	DirLevel3	Description
	pdpatterns		Test of the TRDP PD patterns
	udpmdcom		Test of the UDP MD communication
	xml		Test of the TRDP XML configuration
example			Examples for TRDP use
VisualC			VisualC 2010 configuration for TRDP library and related test examples
XCode			Xcode configuration for TRDP library and related test examples

Table 11: SDK Delivery Directory Structure

3.2.1. TRDPLight

The TRDPLight contains the base functionality for PD, UDP-MD and TCP-MD.

File	Description
\src\api\iec61375-2-3.h	TRDP protocol definitions
\src\api\trdp_types.h	TRDP type definitions
\src\api\trdp_if_light.h	TRDP light API definitions
\src\api\trdp_serviceRegistry.h	TRDP service registry definitions
\src\api\trdp_if_tsn_def.h	TRDP TSN definitions
\src\common\trdp_if.c	TRDP light API
\src\common\trdp_if.h	TRDP light API internal definitions
\src\common\tlc_if.h	TRDP light API internal definitions
\src\common\tlc_if.c	TRDP light common API internal
\src\common\tlm_if.c	TRDP light MD API internal
\src\common\tlp_if.c	TRDP light PD API internal
\src\common\trdp_pdindex.h	TRDP high performance support
\src\common\trdp_pdindex.c	TRDP high performance support
\src\common\trdp_dllmain.c	TRDP light Windows DLL stub
\src\common\trdp_mdcom.c	TRDP light MD functionality
\src\common\trdp_mdcom.h	TRDP light MD functionality definitions
\src\common\trdp_pdcom.c	TRDP light PD functionality
\src\common\trdp_pdcom.h	TRDP light PD functionality definitions
\src\common\trdp_private.h	TRDP light private definitions
\src\common\trdp_stats.c	TRDP light statistics functionality
\src\common\trdp_stats.h	TRDP light statistics functionality definitions
\src\common\trdp_utils.c	TRDP light utilities
\src\common\trdp_utils.h	TRDP light MD utilities definitions
\src\vos\api\vos_mem.h	VOS memory management functionality definitions
\src\vos\api\vos_shared_mem.h	VOS shared memory management functionality definitions



File	Description
\src\vos\api\vos_sock.h	VOS IP network and socket management function-
	ality definitions
\src\vos\api\vos_thread.h	VOS thread and timer management functionality
	definitions
\src\vos\api\vos_types.h	VOS type definitions
\src\vos\api\vos_utils.h	VOS utility definitions
\src\vos\common\vos_mem.c	VOS memory management functionality
\src\vos\common\utils.c	VOS utilities
\src\vos\posix\vos_private.h	VOS private definitions
\src\vos\posix\vos_shared_mem.c	VOS shared memory management functionality
\src\vos\posix\vos_sock.c	VOS IP network and socket management function-
	ality
\src\vos\posix\vos_sockTSN.c	VOS IP network and socket management function-
	ality for TSN
\src\vos\posix\vos_thread.c	VOS thread and timer management functionality
\src\vos\windows\private.h	VOS private definitions
\src\vos\windows\vos_shared_mem.c	VOS shared memory management functionality
\src\vos\windows\vos_sock.c	VOS IP network and socket management function-
	ality
\src\vos\windows\vos_thread.c	VOS thread and timer management functionality us-
	ing pthread (only <= VS2010)
\src\vos\windows\vos_winthread.c	VOS thread and timer management functionality us-
	ing native Windows
\src\vos\vxworks\private.h	VOS private definitions
\src\vos\vxworks\vos_shared_mem.c	VOS shared memory management functionality
\src\vos\vxworks\vos_sock.c	VOS IP network and socket management function-
	ality
\src\vos\vxworks\vos_thread.c	VOS thread and timer management functionality

Table 12: SDK Delivery Content - TRDPLight

3.2.2. TRDPMarshall

The TRDPMarshall contains the marshalling/un-marshalling functionality.

File	Description
\src\common\tau_marshall.c	Marshalling/un-marshalling functionality
\src\api\tau_marshall.h	Marshalling/un-marshalling definitions

Table 13: SDK Delivery Content - TRDPMarshall

3.2.3. TRDPXML

The TRDPXML contains the functionality for reading TRDP XML configuration files.



File	Description
\src\common\tau_xml.c	Read TRDP XML configuration functionality
\src\api\tau_xml.h	Read TRDP XML configuration definitions
\src\api\trdp-config.xsd	TRDP configuration XML schema

Table 14: SDK Delivery Content – TRDPXML

3.2.4. TRDPCTRL

The TRDPCTRL contains the functionality for controlling the ETB.

File	Description
\src\common\tau_ctrl.c	ETB control functionality
\src\api\tau_ctrl.h	ETB control definitions
\src\api\tau_ctrl_types.h	ETB control types

Table 15: SDK Delivery Content – TRDPCTRL

3.2.5. TRDPDNR

The TRDPDNR contains the functionality for URI/IP address translation

File	Description
\src\common\tau_dnr.c	Address translation functionality using DNR
\src\api\tau_dnr.h	Address translation definitions

Table 16: SDK Delivery Content – TRDPDNR

3.2.6. TRDPTTI

The TRDPTTI contains the functionality for train topology information access

File	Description	
\src\common\tau_tti.c	Train topology information access functionality	
\src\common\tau_cstinfo.c	Train topology information access functionality	
\src\api\tau_tti.h	Train topology information access definitions	

Table 17: SDK Delivery Content – TRDPTTI

3.2.7. TRDPSOA

The TRDPSOA contains the functionality for SOA

File	Description
\src\common\tau_so_if.c	SOA functionality
\src\api\tau_so_if.h	SOA functionality

Table 18: SDK Delivery Content – TRDPSOA



3.2.8. TRDPSpy

The TRDPSpy contains the wireshark plugin for interpreting TRDP telegrams.

File	Description
\spy\readme.txt	Readme spy
\spy\plugins\readme.txt	Readme spy plugin
\spy\plugins\2.6\epan\trdp_spy.so	Linux64 Wireshark 2.6 plugin
\spy\plugins\3.0\epan\trdp_spy.so	Linux64 Wireshark 3.0 plugin
\spy\plugins\2.6\epan\trdp_spy.dll	Win64 Wireshark 2.6 plugin
\spy\plugins\3.0\epan\trdp_spy.dll	Win64 Wireshark 3.0 plugin
\spy\src\CMakeListsCustom.txt	Installation guide for Wireshark plugin SDK
\spy\src\trdp_spy\CMakeLists.txt	
\spy\src\trdp_spy\doxyfile\	For doc generation
$ \spy\src\trdp_spy\doc\costum\blueTtitle-$	For doc generation
Graphic.png	
\spy\src\trdp_spy\doc\costum\docend.tex	For doc generation
\spy\src\trdp_spy\doc\costum\docstart.tex	For doc generation
\spy\src\trdp_spy\doc\costum\interface Di-	For doc generation
agram.png	
\spy\src\trdp_spy\doc\costum\seqDia-	For doc generation
gram.png	
\spy\src\trdp_spy\doc\costum\TCNO-	For doc generation
pen.png	
\spy\src\trdp_spy\packet-trdp_spy.cpp	
\spy\src\trdp_spy\packet-trdp_spy.h	
\spy\src\trdp_spy\trdp_env.cpp	
\spy\src\trdp_spy\trdp_env.h	
\spy\src\trdp_spy\trdpDict.cpp	
\spy\src\trdp_spy\trdpDict.h	

Table 19: SDK Delivery Content - TRDPSpy



3.2.9. Build Environment

The following files for the build environment are included in the delivery.

Description	
Makefile for TRDP Light	
Makefile configuration instruction	
Makefile configuration settings	
Visual Studio Express 2015 configuration files to build the WIN32/WIN64 TRDP library as well as the	
different test applications.	
XCode configuration files to build the TRDP library as well as the different test applications.	

Table 20: SDK Delivery Content - Build Environment

3.2.10. Tests

The following test programs are included in the delivery.

File	Description
\test\diverse*	Diverse tests for TRDP library
\test\lint*	PCLint 8.0.w configuration for Windows and Linux
\test\marshalling*	Marshalling test
\test\mdpatterns*	MD pattern tests
\test\pdpatterns*	PD pattern tests
\test\udpmdcom*	UDP MD communication test
\test\xml*	XML configuration test
\test\laddermdtest*	Ladder MD test
\test\ladderpdtest*	Ladder PD test

Table 21: SDK Delivery Content - Tests

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3.2.11. Examples

The following example programs are included in the delivery.

File	Description
\example\example.xml	TRDP example configuration
\example\echoPolling.c	PD polling example
\example\echoSelect.c	PD select example
\example\echoSelectCmdLine.c	PD select example
\example\receiveHello.c	PD receive example
\example\sendHello.c	PD send example
\example\TSN*	TSN example
\example\SourceFilter*	
\example\TAUL_PD*	
\example\SenderDemo*	

Table 22: SDK Delivery Content – Examples

3.3. Documentation

The following documents are related to the delivered product but not part of the delivery.

#	Document	Revision	Identification
1	TRDP Coding Rules	07	TCN-TRDP1-A-BOM-008
2	TRDP System Requirement Specification	10	TCN-TRDP1-D-BOM-003
3	TRDP Architecture & Design Specifica-	06	TCN-TRDP2-D-BOM-019
	tion		
4	TRDP Conformance Test Specification		TCN-TRDP2-D-BOM-031
5	TRDP Conformance Test Report		TCN-TRDP2-D-BOM-032
6	TRDP User's Manual	39	TCN-TRDP2-D-BOM-011
7	TRDP Reference Manual	09	TCN-TRDP2-D-BOM-033

Table 23: SDK Delivery Content - Documentation

3.4. Restrictions

TSN interface is defined but underlaying functions are missing in this release.





4. Installation

4.1. Platform

This version does not contain ready made libraries or DLL (except for TRDP SPY) but only the SDK including the build environment configurations.

4.2. SDK

- 1. Unpack the file "TCNOpenTRDP 1.x.x.0.zip" into your development work area.
- 2. Check the files in src/vos for targets which fits your target
- 3. Edit the Makefile by adding or changing your configuration.
- 4. For windows environments, open the VisualC/Win32TRDP_VS2015.sln file with MS Visual Studio 2015.

All source files/libraries/executables can be found in the folders described in chapter 3.2.

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5. How to use

5.1. Posix (Linux, MAC, QNX, Integrity)

Adapt the delivered configuration for the makefile and compile the TRDP library.

5.2. VxWorks

Adapt the delivered configuration for the makefile and compile the TRDP library.

5.3. Windows

Adapt and use the delivered VisualC 2010 (32 bit) or Visual Studio Express 2015 (64 Bit) configuration and compile the TRDP library.



6. Changes

The following changes have been implemented since the previous release. The column '*Ticket* #.' Contains the ticket number at https://sourceforge.net/p/tcnopen/tickets/. Ticket numbers marked with "XLS" referring to the now closed list "trdp/BugTracking.xls".

6.1. TRDPLight

6.1.1. Corrected Errors

TICKET #	Description
#21	Time dependent functions may fail on 32bit systems in 2038 (wrap around of timeval)
#161	<u>Increase performance</u>
#162	Independent handling of PD and MD to reduce jitter
#191	Add provisions for TSN / Hard Real Time
#227	Possibility to set interface default name used by vos
#242	System Requirements Doc: TRDP4025 contradicts standard
#267	Incorrect values for fields WireError, CRCError and TopoCountError in Statistics for MD
#270	Bug in handling of PD telegrams with new topocounters after inauguration
#271	Ladder support is orphan: To be dropped or still supported?
#272	Missing initialization of values in Global Statistics
#273	Units for certain standard timeout values inconsistent with their intended usage
#274	Cyclic thread parameters must not use stack
#275	Multiple Subscribers with same comId not always found (HIGH_PERF_INDEXED)
#276	Bug with PD requests and replies in high performance mode

Table 24: Corrected Errors TRDPLight

6.1.2. New or Enhanced Functions

Ticket #	Description
#264	Provide service oriented interface

Table 25: New or enhanced functions TRDPLight

6.1.3. Known Errors

Ticket #	Description
#3	WON'T FIX: TRDPSTATS: Incorrect counter for received packets on dual interface (XLS #131)
#5	MD: For sent unicast MD TRDP assumes that only one reply may be received (XLS #37)

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Ticket #	Description
#87	Example application for backbone-aware network is missing
#169	WON'T FIX: Encapsulate declaration of packed structures within a macro
#173	WON'T FIX: Invalid refCon in callbacks
#192	WON'T FIX: Compiler warnings on Windows (minGW)
#193	WON'T FIX: MinGW Unused params warnings
#198	WON'T FIX: PD Timeout cannot be disabled.
#229	Test application to change topocounter (emulate ETB gateway)
#239	WON'T FIX: VOS: Problematic type definitions
#240	WON'T FIX: TRDP topography counter check not standard conform
#251	WON'T FIX: BITSET types
#258	WON'T FIX: TTI subsystem should provide un-marshalled data to be used with SDT
#261	MD reply/add listener do not use send parameters
#263	WON'T FIX: Incorrect dataSize check in MD notify, request, reply and replyQuery APIs

Table 26: Known Errors TRDPLight

6.1.4. Compatibility to Earlier Releases

Compatible to previous release.

6.2. TRDPMarshall

6.2.1. Corrected Errors

Ticket #	Description
#252	Bug in unmarshalling/marshalling of TIMEDATE48 and TIMEDATE6
#265	tau_marshall: Bug in maxSizeOfDSMember

Table 27: Corrected Errors TRDPMarshall

6.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 28: New or enhanced functions TRDPMarshall



6.2.3. Known Errors

Ticket #	Description
None	

Table 29: Known Errors TRDPMarshall

6.2.4. Compatibility to Earlier Releases

Compatible to previous release.

6.3. TRDPXML

6.3.1. Corrected Errors

Ticket #	Description
#265	tau_marshall: Bug in maxSizeOfDSMember

Table 30: Corrected Errors TRDPXML

6.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 31: New or enhanced functions TRDPXML

6.3.3. Known Errors

Ticket #	Description
#2	TRDPXML: Support of mapped devices missing (XLS #64)
#163	WON'T FIX: Extend XML test to include SDT for MD

Table 32: Known Errors TRDPXML

6.3.4. Compatibility to Earlier Releases

Compatible to previous release.

6.4. TRDPCTRL

6.4.1. Corrected Errors

Ticket #	Description
#13	TRDP CTRL: Add ETBN control functionality

Table 33: Corrected Errors TRDPCTRL

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6.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 34: New or enhanced functions TRDPCTRL

6.4.3. Known Errors

	Ticket #	Description
=	#13	Implemented but not yet tested with ETBN

Table 35: Known Errors TRDPCTRL

6.4.4. Compatibility to Earlier Releases

Compatible to previous release.

.

6.1. TRDPDNR

6.1.1. Corrected Errors

Ticket #	Description
None	

Table 36: Corrected Errors TRDPDNR

6.1.2. New or Enhanced Functions

Ticket #	Description
None	

Table 37: New or enhanced functions TRDPDNR

6.1.3. Known Errors

Ticket #	Description
None	

Table 38: Known Errors TRDPDNR

6.1.4. Compatibility to Earlier Releases

Compatible to previous release.



6.1. TRDPTTI

6.1.1. Corrected Errors

Ticket #	Description
#268	Handling Redundancy Switchover of DNS/ECSP server
#269	tau_initTTI: leave standard MC fails

Table 39: Corrected Errors TRDPTTI

6.1.2. New or Enhanced Functions

Ticket #	Description
None	

Table 40: New or enhanced functions TRDPTTI

6.1.3. Known Errors

Ticket #	Description
#258	WON'T FIX: TTI subsystem should provide un-marshalled data to be
	used with SDT

Table 41: Known Errors TRDPTTI

6.1.4. Compatibility to Earlier Releases

Compatible to previous release.

6.2. TRDPSpy

6.2.1. Corrected Errors

Ticket #	Description
#266	Update TRDPSpy for Wireshark 2.6 and 3.0

Table 42: Corrected Errors TRDPSpy

6.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 43: New or enhanced functions TRDPSpy



6.2.3. Known Errors

Ticket #	Description
None	

Table 44: Known Errors TRDPSpy

6.2.4. Compatibility to Earlier Releases

Plugin only compatible to Wireshark 2.6/3.0. For Wireshark 1.8.3 use plugin of release 1.3.1.0.



7. History Release 1.1.0.0

7.1. TRDPLight

7.1.1. Corrected Errors

TICKET#	Description
XLS #109	vos_getInterfaces for WIN32 does not read subnet masks
XLS #125	After TRDP rev. 891, if own IP address != 0;
	Subscriber becomes not able to register the socket discriptor which is
	created in tlp_subscribe() by the Subscriber.
	After that, Subscriber can not receive PD packet any more.
XLS #126	The TCP reception is not handling properly (WSA)ECONNRESET.
XLS #130	Although the maximum length of PDDATA is 1432 octets in the
	specification, a PD packet with 1436 octets of PDDATASET is al-
	lowed to be sent.
XLS #132	The statistic information gotton with tlc_getPubStatistics() is not for
	publisher but for subscriber.
XLS #133	Subscriber performs Join multicast.
	When numJoin is obtained in tlc_getStatistics(), the value is always 0.
XLS #134	While sending PD packet is performed repeatedly in Linux, when the
	clock time is turned back, sending PD packet is stopped.
	After that, when the clock time is set forward than the previous time
	not altered, sending PD packets is restarted.
XLS #135	Although Publisher sends PD packets, the value of numSend obtained
	in tlc_getPubStatistics() is always 0.

Table 45: Corrected Errors TRDPLight

7.1.2. New or Enhanced Functions

Ticket #	Description
XLS #25	vos_shared_mem.c - WIN32 implementation missing
XLS #29	vos_thread.c semaphore implementation missing
XLS #57	vos_thread.c mailbox implementation

Table 46: New or enhanced functions TRDPLight

7.1.3. Known Errors

Ticket #	Description
#1 (XLS #30)	MD/PD: For performance reasons a un-join shall be done after unsubscribing.
#3 (XLS #131)	TRDPSTATS: Incorrect counter for received packets on dual interface



Ticket #	Description
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be received.
#21	Time dependent functions may fail in 2038 (wrap around of timeval)
#87	Example application for backbone-aware network is missing
#101	Optional callback function on PD send

Table 47: Known Errors TRDPLight

7.1.4. Compatibility to Earlier Releases

Compatible to earlier releases.

7.2. TRDPMarshall

7.2.1. Corrected Errors

Ticket #	Description
None	

Table 48: Corrected Errors TRDPMarshall

7.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 49: New or enhanced functions TRDPMarshall

7.2.3. Known Errors

Ticket #	Description
None	

Table 50: Known Errors TRDPMarshall

7.2.4. Compatibility to Earlier Releases

Compatible to earlier releases.

7.3. TRDPXML

7.3.1. Corrected Errors

Ticket #	Description
None	



Table 51: Corrected Errors TRDPXML

7.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 52: New or enhanced functions TRDPXML

7.3.3. Known Errors

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing

Table 53: Known Errors TRDPXML

7.3.4. Compatibility to Earlier Releases

Compatible to earlier releases.

7.4. TRDPCTRL

First release in 1.2.0.0.

7.5. TRDPSpy

7.5.1. Corrected Errors

Ticket #	Description
None	

Table 54: Corrected Errors TRDPSpy

7.5.2. New or Enhanced Functions

Ticket #	Description
None	

Table 55: New or enhanced functions TRDPSpy

7.5.3. Known Errors

Ticket #	Description
#4 (XLS #141)	TRDPSPY: Incorrect visualisation of data packets > 1MTU

Table 56: Known Errors TRDPSpy

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8. History Release 1.2.1.0

The following changes have been implemented since the previous release. The column '*Ticket* #.' Contains the ticket number at https://sourceforge.net/p/tcnopen/tickets/. Ticket numbers marked with "XLS" referring to the now closed list "trdp/BugTracking.xls".

8.1. TRDPLight

8.1.1. Corrected Errors

TICKET #	Description	
#10	TRDPPD: PD send cycle can shift by the time	
#14	PD: In the case of PD Pull pattern Publisher with Traffic-shaping = setting tlp_publish() is failed	ON and Interva
#15	VOS: In case of POSIX, vos_queueReceive()fails for a miss of taking semaphore.	
#16	VOS: In case of POSIX, vos_queueReceive() does not release sema- phore	
#17	tlp_subscribe() returns wrong *pSubHandle	
#19	tlc_reinitSession(): rejoin for UDP MD missing	
#20	vos_memInit() does not handle provided memory pool	
#22	ADR should be named Name Resolution	
#23	tlc_getInterval() always returning 10ms	
#24	trdp_if.c won't compile without MD_SUPPORT	
#25	CRC32 calculation is not according IEEE802.3	
#29	TRDP: user references shall be void pointer	
#30	TRDP tlc_getListStatistics() implementation is missing	
#31	TRDP: tlc_getRedStatistics() implementation missing	
#32	IP addresses in TRDP_PD_INFO_T differ depending on functions and are not useful	
#35	VOS: currently unused function cyclic_thread does not consider time for actual thread function	
#36	VOS: big/little endian auto detection does not work in any environment	
#37	Packet defines in tau_ctrl_types.h do not match FDIS-draft	
#38	Scheduling policy values do not match pthread/Posix value	
#39	Check of protocol version	
#40	Feature needed: Option to ignore sequence counter on PD subscriptions	
#41	PD sequence counter is not bound to source address	
#42	Usage of memcmp() in the trdp_pdReceive() function	
#43	Usage of memset() in the trdp_pdReceive() function	
#44	Reception of its own sending multicast packets	

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TICKET #	Description
#45	"validity-behavior" tag spelling
#46	Protocol change: operational topocount needed
#47	Protocol change: no FCS for data part of telegrams
#49	Endianess Setting in Visual C Project incorrect
#51	VOS: change underlying function for vos_dottedIP
#53	Interface clean-up
#54	MS Windows Win32TRDP_XMLPDTest not updated with latest API
#55	Allow specific callback within tlp_subscribe and tlm_addListener
#56	Sequence counter reset failure
#57	Padding bytes after user data
#58	Dataset expanding to multiples of 4
#59	MD: user status of reply and confirm not set in telegram
#60	Second sourceIP parameter in tlp_subscribe() is not used
#61	tlm_readdListener() and tlp_resubscribe() implementation missing
#62	MD test (md-test) is failing and crashing
#63	Function am big endian not needed
#64	MDCOM module needs some restructuring and correction after static analysis
#66	Memory corruption when sending a reply with data size longer than data size of request message
#67	Memory leak when receiving long messages
#68	Telegram statistics for TCP not consistent
#69	Make framework broken for certain make targets
#70	TRDPLight: Automatic Transmission of 'Me' Message accd. A.7.7.2 2nd and 5th Paragraph is missing
#71	TRDPLight: timout==0 shall mean infinit time is not yet implemented
#72	TRDPLight: Windows7 vos_getInterfaces() bug
#73	TRDPLight: Multicast "join" fails on Windows system with two ethernet interfaces
#74	TRDPLight: topo counts check doesn't take into account local communication

Table 57: Corrected Errors TRDPLight

8.1.2. New or Enhanced Functions

Ticket #	Description
#6	VOS: Add VxWorks support—
#12	VOS: Add INTEGRITY support for POSIX interface
#48	Implement message data unicast retry protocol

Table 58: New or enhanced functions TRDPLight

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8.1.3. Known Errors

Ticket #	Description
#1 (XLS #30)	MD/PD: For performance reasons a un-join shall be done after unsubscribing.
#3 (XLS #131)	TRDPSTATS: Incorrect counter for received packets on dual interface
#1	PD/MD: For performance reasons a unjoin shall be done after unsubscribing (XLS #30)
#3	TRDPSTATS: Incorrect counter for received packets on dual interface (XLS #131)
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be received.
#7	TRDP_TTI: Add topology information support
#8	TRDP DNR: Add URI-IP address translation support
#11	VOS: Complete VxWorks functionality regarding shared memory
#21	Time dependent functions may fail in 2038 (wrap around of timeval)
#87	Example application for backbone-aware network is missing
#101	Optional callback function on PD send

Table 59: Known Errors TRDPLight

8.1.4. Compatibility to Earlier Releases

Incompatible to earlier releases due to #46, #47, #53.

8.2. TRDPMarshall

8.2.1. Corrected Errors

Ticket #	Description
#27	Mashalling/unmarshalling does not work for 32 bit or higher data types on a 16 bit platform
#28	Marshalling: I request to remove the static declaration for find DS()

Table 60: Corrected Errors TRDPMarshall

8.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 61: New or enhanced functions TRDPMarshall



8.2.3. Known Errors

Ticket #	Description
#33	TRDP marshall and unmarshall functions shall check source size

Table 62: Known Errors TRDPMarshall

8.2.4. Compatibility to Earlier Releases

Incompatible to earlier releases.

8.3. TRDPXML

8.3.1. Corrected Errors

Ticket #	Description
#9	TAU XML:The offset-address in PD Paramter form XML Config is not included in parsePdParameter().
#18	TAU XML: In case of setting multiple values to level parameters in debug config of XML Configuration, only the first parameter value is effective in parseDebugConfiguration()

Table 63: Corrected Errors TRDPXML

8.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 64: New or enhanced functions TRDPXML

8.3.3. Known Errors

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing
#65	XML - Publish and Subscribe telegram identification

Table 65: Known Errors TRDPXML

8.3.4. Compatibility to Earlier Releases

Incompatible to earlier releases.



8.4. TRDPCTRL

8.4.1. Corrected Errors

Ticket #	Description
None	

Table 66: Corrected Errors TRDPCTRL

8.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 67: New or enhanced functions TRDPCTRL

8.4.3. Known Errors

Ticket #	Description
None	

Table 68: Known Errors TRDPCTRL

8.4.4. Compatibility to Earlier Releases

First release.

8.5. TRDPSpy

8.5.1. Corrected Errors

Ticket #	Description
#4 (XLS #141)	TRDPSPY: Incorrect visualisation of data packets > 1MTU
#26	TRDP Spy CRC calculation needs fix
#52	Wireshark plugin needs to be adapted to protocol changes

Table 69: Corrected Errors TRDPSpy

8.5.2. New or Enhanced Functions

Ticket #	Description
None	

Table 70: New or enhanced functions TRDPSpy



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8.5.3. Known Errors

Ticket #	Description
None	

Table 71: Known Errors TRDPSpy

8.5.4. Compatibility to Earlier Releases

Incompatible to earlier releases.due to #52.

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9. History Release 1.3.0.0

The following changes have been implemented since the previous release. The column '*Ticket* #.' Contains the ticket number at https://sourceforge.net/p/tcnopen/tickets/. Ticket numbers marked with "XLS" referring to the now closed list "trdp/BugTracking.xls".

9.1. TRDPLight

9.1.1. Corrected Errors

TICKET#	Description	
#11	VOS: Complete VxWorks functionality	1
#34	Subscribe to multicast address fails]
#70	TRDPLight: Automatic Transmission of 'Me' Message accd. A.7.7. missing	2 2nd and 5th P
#71	TRDPLight: timout==0 shall mean infinit time is not yet implemented	
#72	TRDPLight: Windows7 vos_getInterfaces() bug]
#73	TRDPLight: Multicast "join" fails on Windows system with two ethernet interfaces	
#74	TRDPLight: topo counts check doesn't take into account local comm	<u>unication</u>
#75	TRDP IF: session mutex not freed in tlc_terminate()	
#76	TRDP PD: Wrong initialisation of frame pointer	1
#77	TRDP UTILS: wrong argument for vos_sockJoinMC()	1
#78	VOS: When the schedule policy is set to VOS THREAD POLICY OTHER and the priority to '0' in Linux, creating thread is failed.	
#80	PD/MD: Call back and counting of received multicast packets duplicated in dual homing interfaces	
#81	PD/MD: Counts for packet loss needed	
#84	Statistics: trdp_getStats() returns error if heap memory is used	
#85	PD recovery in case of undetected sequenceCounter overflow	1
#86	Fix SendHello/ReceiveHello examples	1
#88	Cleanup makefiles, remove dependencies on external libraries	1
#89	TCPMD: In case of wrong length or CRC in the header the TCP connection gets unusable	
#91	Update User Manual	
#92	Update default UDP and TCP port numbers	1
#94	TRDP_REDUNDANT flag never evaluated]
#96	TRDPSTATS: Distinguish between UDP and TCP listener statistics	1
#97	rdp-xmlpd-test.c subscribed telegram issue.	
#98	Telegram Attribute for auto/non-auto configuration needed	1
#99	userRef in debug-output (TRDP_PRINT_DBG_T) is always NULL	



TICKET #	Description
#103	<u>C++ Interface</u>
#104	PD telegrams with no data is never sent
#105	ERROR INSUFFICIENT BUFFER in Windows
#106	Add a build flag to indicate if user need to be informed on every received PD packet
#107	tlm_addListener does not allow to set source filtering
#108	tau marshall does not always work
#111	'unit', 'scale', 'offset' attributes missing in TRDP_DATASET_ELEMENT
#115	MD: Missing parameter pktFlags in tlm_reply() and tlm_replyQuery()

Table 72: Corrected Errors TRDPLight

9.1.2. New or Enhanced Functions

Ticket #	Description
#90	Independent versioning for VOS

Table 73: New or enhanced functions TRDPLight

9.1.3. Known Errors

Ticket #	Description
#1 (XLS #30)	MD/PD: For performance reasons a un-join shall be done after unsubscribing.
#3 (XLS #131)	TRDPSTATS: Incorrect counter for received packets on dual interface
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be received.
#21	Time dependent functions may fail in 2038 (wrap around of timeval)
#87	Example application for backbone-aware network is missing
#101	Optional callback function on PD send

Table 74: Known Errors TRDPLight

9.1.4. Compatibility to Earlier Releases

Compatible to previous release.

9.2. TRDPMarshall

9.2.1. Corrected Errors

Ticket #	Description
#33	TRDP marshall and unmarshall functions shall check source size



Ticket #	Description
#100	Marshalling/Unmarshalling functions do not allow to add datasets later
#109	unmarshalling: size mismatch when swapping datasetlength
#110	Missing: marshalling/unmarshalling when using message data
#112	Marshalling sets wrong datasetLength (PD)

Table 75: Corrected Errors TRDPMarshall

9.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 76: New or enhanced functions TRDPMarshall

9.2.3. Known Errors

Ticket #	Description
None	

Table 77: Known Errors TRDPMarshall

9.2.4. Compatibility to Earlier Releases

Compatible to previous release.

9.3. TRDPXML

9.3.1. Corrected Errors

Ticket #	Description
#65	XML – Publish and Subscribe telegram identification
#102	XML parser needed
#113	tau_xml: parsing of dataset element "type" always returns 0

Table 78: Corrected Errors TRDPXML

9.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 79: New or enhanced functions TRDPXML



9.3.3. Known Errors

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing
#65	XML – Publish and Subscribe telegram identification

Table 80: Known Errors TRDPXML

9.3.4. Compatibility to Earlier Releases

Compatible to previous release.

9.4. TRDPCTRL

9.4.1. Corrected Errors

Ticket #	Description
#13	Add ETBN control support
#79	TRDP Ctrl: tau_initEcspCtrl sets data size permanently as 0

Table 81: Corrected Errors TRDPCTRL

9.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 82: New or enhanced functions TRDPCTRL

9.4.3. Known Errors

Ticket #	Description
#13	Implemented but not yet tested with ETBN

Table 83: Known Errors TRDPCTRL

9.4.4. Compatibility to Earlier Releases

Compatible to previous release.

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9.5. TRDPDNR

9.5.1. Corrected Errors

Ticket #	Description
#93	DNR interface definition does not account for multiple network interfaces

Table 84: Corrected Errors TRDPDNR

9.5.2. New or Enhanced Functions

Ticket #	Description
#8	TRDP DNR: Add URI-IP address translation support

Table 85: New or enhanced functions TRDPDNR

9.5.3. Known Errors

Ticket #	Description
#125	tau dnr: TCN DNS support missing

Table 86: Known Errors TRDPDNR

9.5.4. Compatibility to Earlier Releases

First release.

9.6. TRDPTTI

9.6.1. Corrected Errors

Ticket #	Description
#82	TTI: type for etbId in TRDP_TRAIN_DIR_T not conform to standard
#83	TTI: description for cstClass not acc. standard
#114	CRC computation for OP TRAIN DIRECTORY STATE does not accord with the standard.

Table 87: Corrected Errors TRDPTTI



9.6.2. New or Enhanced Functions

Ticket #	Description
#7	TRDPTTI: Add train topology information support

Table 88: New or enhanced functions TRDPTTI

9.6.3. Known Errors

Ticket #	Description
None	

Table 89: Known Errors TRDPTTI

9.6.4. Compatibility to Earlier Releases

First release.

9.7. TRDPSpy

9.7.1. Corrected Errors

Ticket #	Description
#95	TRDPSpy: Update port numbers and remove local path names

Table 90: Corrected Errors TRDPSpy

9.7.2. New or Enhanced Functions

Ticket #	Description
None	

Table 91: New or enhanced functions TRDPSpy

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10. History Release 1.3.1.0

The following changes have been implemented since the previous release. The column '*Ticket* #.' Contains the ticket number at https://sourceforge.net/p/tcnopen/tickets/. Ticket numbers marked with "XLS" referring to the now closed list "trdp/BugTracking.xls".

10.1. TRDPLight

10.1.1. Corrected Errors

TICKET #	Description
None	

Table 92: Corrected Errors TRDPLight

10.1.2. New or Enhanced Functions

Ticket #	Description
None	

Table 93: New or enhanced functions TRDPLight

10.1.3. Known Errors

Ticket #	Description
#1 (XLS #30)	MD/PD: For performance reasons a un-join shall be done after unsubscribing.
#3 (XLS #131)	TRDPSTATS: Incorrect counter for received packets on dual interface
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be received.
#21	Time dependent functions may fail in 2038 (wrap around of timeval)
#87	Example application for backbone-aware network is missing
#101	Optional callback function on PD send

Table 94: Known Errors TRDPLight

10.1.4. Compatibility to Earlier Releases

Compatible to previous release.

10.2. TRDPMarshall

10.2.1. Corrected Errors

Ticket #	Description
None	



Table 95: Corrected Errors TRDPMarshall

10.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 96: New or enhanced functions TRDPMarshall

10.2.3. Known Errors

Ticket #	Description
None	

Table 97: Known Errors TRDPMarshall

10.2.4. Compatibility to Earlier Releases

Compatible to previous release.

10.3. TRDPXML

10.3.1. Corrected Errors

Ticket #	Description
#116	Memory corruption using new XML library

Table 98: Corrected Errors TRDPXML

10.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 99: New or enhanced functions TRDPXML

10.3.3. Known Errors

Ticket #	Description
None	

Table 100: Known Errors TRDPXML

10.3.4. Compatibility to Earlier Releases

Compatible to previous release.



10.4. TRDPCTRL

10.4.1. Corrected Errors

Ticket #	Description
None	

Table 101: Corrected Errors TRDPCTRL

10.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 102: New or enhanced functions TRDPCTRL

10.4.3. Known Errors

Ticket #	Description
#13	Implemented but not yet tested with ETBN

Table 103: Known Errors TRDPCTRL

10.4.4. Compatibility to Earlier Releases

Compatible to previous release.

10.5. TRDPDNR

10.5.1. Corrected Errors

Ticket #	Description
None	

Table 104: Corrected Errors TRDPDNR

10.5.2. New or Enhanced Functions

Ticket #	Description
None	

Table 105: New or enhanced functions TRDPDNR



10.5.3. Known Errors

Ticket #	Description
#125	tau dnr: TCN DNS support missing

Table 106: Known Errors TRDPDNR

10.5.4. Compatibility to Earlier Releases

Compatible to previous release.

10.6. TRDPTTI

10.6.1. Corrected Errors

Ticket #	Description
None	

Table 107: Corrected Errors TRDPTTI

10.6.2. New or Enhanced Functions

Ticket #	Description
None	

Table 108: New or enhanced functions TRDPTTI

10.6.3. Known Errors

	Ticket #	Description
Ī	None	

Table 109: Known Errors TRDPTTI

10.6.4. Compatibility to Earlier Releases

Compatible to previous release.



10.7. TRDPSpy

10.7.1. Corrected Errors

Ticket #	Description
None	

Table 110: Corrected Errors TRDPSpy

10.7.2. New or Enhanced Functions

Ticket #	Description
None	

Table 111: New or enhanced functions TRDPSpy

10.7.3. Known Errors

Ticket #	Description
None	

Table 112: Known Errors TRDPSpy

10.7.4. Compatibility to Earlier Releases

Compatible to previous release.





11. History Release 1.3.2.0

The following changes have been implemented since the previous release. The column '*Ticket* #.' Contains the ticket number at https://sourceforge.net/p/tcnopen/tickets/. Ticket numbers marked with "XLS" referring to the now closed list "trdp/BugTracking.xls".

11.1. TRDPLight

11.1.1. Corrected Errors

TICKET #	Description]
#117	PD Status packet is not sent on request	
#118	Defines in iec61375-2-3.h do not match IEC IS	
#119	tlc_getInterval() repeatedly returns 0 after timeout]
#120	ComID messed up in 61375-2-3: Which one to use?	1
#121	Timeout-ed PD receiver should trigger callback after receiving packet again	
#122	64Bit Problem: Definition of VOS_TIME_T is not compatible	
#123	TopoCount check does not follow standard (Table A.3)	
#124	tau dnr: Cache keeps etbTopoCount only	
#126	Opened UDP socket is not released if join or bind failed in trdp_requ	estSocket(
#127	MD notify message: Invalid session identifier	
#128	PD: Support of ComId $== 0$	
#129	Found a bug which yields wrong output params and potentially seg- faults	
#130	PD Pull: Request is always sent to the same ip address	
#132	tlp_publish: Check of datasize wrong if using marshaller	
#133	Accelerate PD packet reception	
#134	Example trdp-xmlpd-test crash due to zero elemSize.	
#136	PD topography counter with faulty behavior]
#137	tlc_closeSession should close the tcp socket used for md communication	
#138	Erroneous closing of receive md socket	1
#139	Swap parameter in tlm_reply	
#140	tlp_get reports immediately TRDP_TIMEOUT_ERR for a subscription with TRDP_TIMER_FOREVER	
#141	PD: Pull request with replyComId==0 and ComId!=0 fails	
#142	Compiler warnings / MISRA-C 2012 issues	
#143	What is tlm_replyErr() for?	

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TICKET #	Description
#144	32bit mode enforcement not complete
#145	Optional callback for each received valid PD
#146	On Timeout, PD Callback is always called with no data/datasize == 0
#147	No timeout with TCP if destination is not reachable
#148	Wrong element used in trdp_mdCheckTimeouts() to invoke the callback
#149	SourceUri and DestinationUri don't with 32 characters
#150	Destination IP address is not copied to md_info on TCP-Layer
#151	tlp_request: timeout-flag is not cleared
#152	tlp_publish: Error if srcIpAddr is a multicast-address
#153	Two replies on one pull-request at multicast address
#154	ComIds and DSIds literals (#define TRDP) in trdp_proto.h too lon
#155	Kill trdp_proto.h - move definitions to iec61375-2-3.h
#156	Recursion counter never decremented
#158	MdReplyTimeout: Standard defines 0 as infinite time and not -1
#159	Is there any plan to include the SDTv2 implementation?
#160	TRDP MD Test 4 (TCP request/reply) fails with reply timeout

Table 113: Corrected Errors TRDPLight

11.1.2. New or Enhanced Functions

Ticket #	Description

Table 114: New or enhanced functions TRDPLight

11.1.3. Known Errors

Ticket #	Description
#1	PD/MD: For performance reasons a unjoin shall be done after unsub-
	scribing (XLS #30)
#3	TRDPSTATS: Incorrect counter for received packets on dual interface
	(XLS #131)
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be
	received.
#21	Time dependent functions may fail in 2038 (wrap around of timeval)
#87	Example application for backbone-aware network is missing
#101	Optional callback function on PD send
#161	<u>Increase performance</u>
#162	Independent handling of PD and MD to reduce jitter

Table 115: Known Errors TRDPLight



11.1.4. Compatibility to Earlier Releases

Incompatible to earlier releases due to #46, #47, #53.

11.2. TRDPMarshall

11.2.1. Corrected Errors

Ticket #	Description
None	

Table 116: Corrected Errors TRDPMarshall

11.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 117: New or enhanced functions TRDPMarshall

11.2.3. Known Errors

Ticket #	Description
None	

Table 118: Known Errors TRDPMarshall

11.2.4. Compatibility to Earlier Releases

Compatible to previous release.

11.3. TRDPXML

11.3.1. Corrected Errors

Ticket #	Description
None	

Table 119: Corrected Errors TRDPXML

11.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 120: New or enhanced functions TRDPXML

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11.3.3. Known Errors

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing

Table 121: Known Errors TRDPXML

11.3.4. Compatibility to Earlier Releases

Compatible to previous release.

11.4. TRDPCTRL

11.4.1. Corrected Errors

Ticket #	Description
#131	TRDP_ECSP_CTRL_T in the tau_ctrl_types.h should not include the
	<u>leadVehOfCst field</u>

Table 122: Corrected Errors TRDPCTRL

11.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 123: New or enhanced functions TRDPCTRL

11.4.3. Known Errors

Ticket #	Description
#13	Implemented but not yet tested with ETBN

Table 124: Known Errors TRDPCTRL

11.4.4. Compatibility to Earlier Releases

Compatible to previous release.

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11.5. TRDPDNR

11.5.1. Corrected Errors

Ticket #	Description
None	

Table 125: Corrected Errors TRDPDNR

11.5.2. New or Enhanced Functions

Ticket #	Description
None	

Table 126: New or enhanced functions TRDPDNR

11.5.3. Known Errors

Ticket #	Description
#125	tau_dnr: TCN DNS support missing

Table 127: Known Errors TRDPDNR

11.5.4. Compatibility to Earlier Releases

Compatible to previous release.

11.6. TRDPTTI

11.6.1. Corrected Errors

Ticket #	Description
None	

Table 128: Corrected Errors TRDPTTI

11.6.2. New or Enhanced Functions

Ticket #	Description
None	

Table 129: New or enhanced functions TRDPTTI

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11.6.3. Known Errors

Ticket #	Description
None	

Table 130: Known Errors TRDPTTI

11.6.4. Compatibility to Earlier Releases

Compatible to previous release.

11.7. TRDPSpy

11.7.1. Corrected Errors

Ticket #	Description
#157	TRDP Spy needs update for newer Wireshark versions (> 1.8.3)

Table 131: Corrected Errors TRDPSpy

11.7.2. New or Enhanced Functions

Ticket #	Description
None	

Table 132: New or enhanced functions TRDPSpy

11.7.3. Known Errors

Ticket #	Description
#157	TRDP Spy needs update for newer Wireshark versions (> 1.8.3)
	XML parsing still open for Wireshark 2.x

Table 133: Known Errors TRDPSpy

11.7.4. Compatibility to Earlier Releases

DLL only compatible to Wireshark 2.x. For Wireshark 1.8.3 the previous release needs to be used



12. History Release 1.3.3.0

The following changes have been implemented since the previous release. The column '*Ticket* #.' Contains the ticket number at https://sourceforge.net/p/tcnopen/tickets/. Ticket numbers marked with "XLS" referring to the now closed list "trdp/BugTracking.xls".

12.1. TRDPLight

12.1.1. Corrected Errors

TICKET #	Description
#164	tlp_request: EXOR used to clear a bit

Table 134: Corrected Errors TRDPLight

12.1.2. New or Enhanced Functions

Ticket #	Description

Table 135: New or enhanced functions TRDPLight

12.1.3. Known Errors

Ticket #	Description
#1	PD/MD: For performance reasons a unjoin shall be done after unsubscribing (XLS #30)
#3	TRDPSTATS: Incorrect counter for received packets on dual interface (XLS #131)
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be received.
#21	Time dependent functions may fail in 2038 (wrap around of timeval)
#87	Example application for backbone-aware network is missing
#101	Optional callback function on PD send
#161	Increase performance
#162	Independent handling of PD and MD to reduce jitter

Table 136: Known Errors TRDPLight

12.1.4. Compatibility to Earlier Releases

Compatible to previous release.



12.2. TRDPMarshall

12.2.1. Corrected Errors

Ticket #	Description
None	

Table 137: Corrected Errors TRDPMarshall

12.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 138: New or enhanced functions TRDPMarshall

12.2.3. Known Errors

Ticket #	Description
None	

Table 139: Known Errors TRDPMarshall

12.2.4. Compatibility to Earlier Releases

Compatible to previous release.

12.3. TRDPXML

12.3.1. Corrected Errors

Ticket #	Description
None	

Table 140: Corrected Errors TRDPXML

12.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 141: New or enhanced functions TRDPXML



12.3.3. Known Errors

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing

Table 142: Known Errors TRDPXML

12.3.4. Compatibility to Earlier Releases

Compatible to previous release.

12.4. TRDPCTRL

12.4.1. Corrected Errors

Ticket #	Description
None	

Table 143: Corrected Errors TRDPCTRL

12.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 144: New or enhanced functions TRDPCTRL

12.4.3. Known Errors

Ticket #	Description
#13	Implemented but not yet tested with ETBN

Table 145: Known Errors TRDPCTRL

12.4.4. Compatibility to Earlier Releases

Compatible to previous release.



12.5. TRDPDNR

12.5.1. Corrected Errors

Ticket #	Description
None	

Table 146: Corrected Errors TRDPDNR

12.5.2. New or Enhanced Functions

Ticket #	Description
None	

Table 147: New or enhanced functions TRDPDNR

12.5.3. Known Errors

Ticket #	Description
#125	tau_dnr: TCN DNS support missing

Table 148: Known Errors TRDPDNR

12.5.4. Compatibility to Earlier Releases

Compatible to previous release.

12.6. TRDPTTI

12.6.1. Corrected Errors

Ticket #	Description
None	

Table 149: Corrected Errors TRDPTTI

12.6.2. New or Enhanced Functions

Ticket #	Description
None	

Table 150: New or enhanced functions TRDPTTI



12.6.3. Known Errors

Ticket #	Description
None	

Table 151: Known Errors TRDPTTI

12.6.4. Compatibility to Earlier Releases

Compatible to previous release.

12.7. TRDPSpy

12.7.1. Corrected Errors

Ticket #	Description
None	

Table 152: Corrected Errors TRDPSpy

12.7.2. New or Enhanced Functions

Ticket #	Description
None	

Table 153: New or enhanced functions TRDPSpy

12.7.3. Known Errors

Ticket #	Description
#157	TRDP Spy needs update for newer Wireshark versions (> 1.8.3)
	XML parsing still open for Wireshark 2.x

Table 154: Known Errors TRDPSpy

12.7.4. Compatibility to Earlier Releases

DLL only compatible to Wireshark 2.x. For Wireshark 1.8.3 use plugin of release 1.3.1.0

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13. History Release 1.4.0.0

13.1. TRDPLight

13.1.1. Corrected Errors

TICKET #	Description	
#1	PD/MD: For performance reasons a unjoin shall be done after unsub-	
	scribing (XLS #30)	
#101	Optional callback function on PD send	
#166	Bug in trdp_pdReceive() "if data have changed()	
#165	VxWorks vos_dottedIP() bug	
#167	Window vos_dottedIP() bug	
#168	<u>Unnecessary multicast join on tlp_publish()</u>	
#170	<u>VxWorks: Multicast TTL setsockopt has wrong size</u>	
#171	Wrong socket binding for multicast request messages	
#172	Infinite loop of message sending after PD Pull Request when register	ed in multicast g
#174	Socket is closed, even if in use	
#175	PD: Handling of sequence counter	
#176	TRDP_LABEL_T breaks field alignment	
#177	Should a UDP receive socket for MD be closed in case of	
	TRDP_BLOCK_ERR	
#178	trdp_releaseSocket does not cleanup tcpParams	
#179	<pre>maxNumRetries in tlm_request() are not limited</pre>	
#180	Filtering rules for DestinationURI does not follow the standard	
#181	Missing padding bytes in user dataset of PD-PDU	
#182	Missing padding bytes in user dataset of MD-PDU	
#183	tau_getOwnIds declared but not defined	
#184	Building with VS 2015: WIN64 and Windows threads (was: time spec	
	<u>redefined</u>)	
#185	MD reply: Infinite timeout wrong handled	
#186	Potential SEGFAULT in case of PD timeout	
#188	Typo in the TRDP_VAR_SIZE definition	
#189	timeout-value not parsed in tau_xml	
#190	Source filtering (IP-range) for PD subscribe	
#192	Compiler warnings on Windows (minGW)	
#194	Platform independent format specifiers in vos_printLog	
#195	Invalid thread handle (SEGFAULT)	
#196	<u>setRedundant with RedID = 0 stops all publishers</u>	
#197	Incorrect Marshalling/Unmarshalling for nested datasets	
#199	Setting redId on tlp_request() has no effect	



TICKET #	Description
#200	Notify 'sender element' fields, set twice
#201	tlp_setRedundant return value if redId is 0
#202	vos mutexTrylock return value
#203	Incorrect unmarshalling of datasets containing TIMEDATE64 array.
#204	tlp_publish should take default callback function if flags == DEFAULT
#205	tlm_addListener() does not acknowledge TRDP_FLAGS_DEFAULT f
#206	trdp-md-test fails for several test cases
#207	tlp_put() and variable dataSize
#208	vos getInterfaces returning incorrect "name" and "linkState" on windows.
#209	vos_getInterfaces returning incorrect "name" and "linkState" on windows.
#210	IF condition for DNS Options incorrect in tau_uri2Addr()

Table 155: Corrected Errors TRDPLight

13.1.2. New or Enhanced Functions

Ticket #	Description

Table 156: New or enhanced functions TRDPLight

13.1.3. Known Errors

Ticket #	Description
#3	TRDPSTATS: Incorrect counter for received packets on dual interface
	(XLS #131)
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be
	<u>received.</u>
#21	Time dependent functions may fail in 2038 (wrap around of timeval)
#87	Example application for backbone-aware network is missing
#161	Increase performance
#162	Independent handling of PD and MD to reduce jitter
#169	WON'T FIX: Encapsulate declaration of packed structures within a
	macro
#173	WON'T FIX: Invalid refCon in callbacks
#191	Add provisions for TSN / Hard Real Time

Table 157: Known Errors TRDPLight

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13.1.4. Compatibility to Earlier Releases

Incompatible to earlier releases due to #46, #47, #53.

13.2. TRDPMarshall

13.2.1. Corrected Errors

Ticket #	Description
None	

Table 158: Corrected Errors TRDPMarshall

13.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 159: New or enhanced functions TRDPMarshall

13.2.3. Known Errors

Ticket #	Description
None	

Table 160: Known Errors TRDPMarshall

13.2.4. Compatibility to Earlier Releases

Compatible to previous release.

13.3. TRDPXML

13.3.1. Corrected Errors

Ticket #	Description
#211	XML handling: Dataset Name should be stored in
	TRDP_DATASET_ELEMENT_T

Table 161: Corrected Errors TRDPXML

13.3.2. New or Enhanced Functions

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing
#163	Extend XML test to include SDT for MD



Ticket #	Description

Table 162: New or enhanced functions TRDPXML

13.3.3. Known Errors

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing

Table 163: Known Errors TRDPXML

13.3.4. Compatibility to Earlier Releases

Compatible to previous release.

13.4. TRDPCTRL

13.4.1. Corrected Errors

Ticket #	Description
#131	TRDP_ECSP_CTRL_T in the tau_ctrl_types.h should not include the
	<u>leadVehOfCst field</u>

Table 164: Corrected Errors TRDPCTRL

13.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 165: New or enhanced functions TRDPCTRL

13.4.3. Known Errors

Ticket #	Description
#13	Implemented but not yet tested with ETBN

Table 166: Known Errors TRDPCTRL

13.4.4. Compatibility to Earlier Releases

Compatible to previous release.

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13.5. TRDPDNR

13.5.1. Corrected Errors

Ticket #	Description
None	

Table 167: Corrected Errors TRDPDNR

13.5.2. New or Enhanced Functions

Ticket #	Description
None	

Table 168: New or enhanced functions TRDPDNR

13.5.3. Known Errors

Ticket #	Description
#125	tau dnr: TCN DNS support missing

Table 169: Known Errors TRDPDNR

13.5.4. Compatibility to Earlier Releases

Compatible to previous release.

13.6. TRDPTTI

13.6.1. Corrected Errors

Ticket #	Description
None	

Table 170: Corrected Errors TRDPTTI

13.6.2. New or Enhanced Functions

Ticket #	Description
None	

Table 171: New or enhanced functions TRDPTTI



13.6.3. Known Errors

Ticket #	Description
None	

Table 172: Known Errors TRDPTTI

13.6.4. Compatibility to Earlier Releases

Compatible to previous release.

13.7. TRDPSpy

13.7.1. Corrected Errors

Ticket #	Description
#157	Linux: TRDP Spy needs update for newer Wireshark versions (> 1.8.3)
#187	Linux: TRDP Spy dissector always expects 16 Bits variable size for arrays

Table 173: Corrected Errors TRDPSpy

13.7.2. New or Enhanced Functions

Ticket #	Description
None	

Table 174: New or enhanced functions TRDPSpy

13.7.3. Known Errors

Ticket #	Description
#157	Windows: TRDP Spy needs update for newer Wireshark versions (> 1.8.3)
#187	Windows: TRDP Spy dissector always expects 16 Bits variable size for arrays

Table 175: Known Errors TRDPSpy

13.7.4. Compatibility to Earlier Releases

Plugin only compatible to Wireshark 2.x. For Wireshark 1.8.3 the previous release needs to be used



14. History Release 1.4.1.0

The following changes have been implemented since the previous release. The column '*Ticket* #.' Contains the ticket number at https://sourceforge.net/p/tcnopen/tickets/. Ticket numbers marked with "XLS" referring to the now closed list "trdp/BugTracking.xls".

14.1. TRDPLight

14.1.1. Corrected Errors

TICKET #	Description
#222	CRC Test in LibraryTests.c fails
#223	Windows: Excessive error reporting when polling (rcvmsg)
#224	TCP/UDP MD Listening will fail to respond to UDP MD requests

Table 176: Corrected Errors TRDPLight

14.1.2. New or Enhanced Functions

Ticket #	Description
None	

Table 177: New or enhanced functions TRDPLight

14.1.3. Known Errors

Ticket #	Description
#3	TRDPSTATS: Incorrect counter for received packets on dual inter-
	<u>face (XLS #131)</u>
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be
	<u>received.</u>
#21	Time dependent functions may fail in 2038 (wrap around of timeval)
#87	Example application for backbone-aware network is missing
#161	<u>Increase performance</u>
#162	Independent handling of PD and MD to reduce jitter
#169	WON'T FIX: Encapsulate declaration of packed structures within a
	<u>macro</u>
#173	WON'T FIX: Invalid refCon in callbacks
#191	Add provisions for TSN / Hard Real Time
#192	WON'T FIX: Compiler warnings on Windows (minGW)
#193	WON'T FIX: MinGW Unused params warnings
#198	WON'T FIX: PD Timeout cannot be disabled.

Table 178: Known Errors TRDPLight



14.1.4. Compatibility to Earlier Releases

Compatible to previous release.

14.2. TRDPMarshall

14.2.1. Corrected Errors

Ticket #	Description
None	

Table 179: Corrected Errors TRDPMarshall

14.2.2. New or Enhanced Functions

Ticket #	Description
None	

Table 180: New or enhanced functions TRDPMarshall

14.2.3. Known Errors

Ticket #	Description
None	

Table 181: Known Errors TRDPMarshall

14.2.4. Compatibility to Earlier Releases

Compatible to previous release.

14.3. TRDPXML

14.3.1. Corrected Errors

Ticket #	Description
None	

Table 182: Corrected Errors TRDPXML

14.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 183: New or enhanced functions TRDPXML

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14.3.3. Known Errors

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing
#163	Extend XML test to include SDT for MD

Table 184: Known Errors TRDPXML

14.3.4. Compatibility to Earlier Releases

Compatible to previous release.

14.4. TRDPCTRL

14.4.1. Corrected Errors

Ticket #	Description
None	

Table 185: Corrected Errors TRDPCTRL

14.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 186: New or enhanced functions TRDPCTRL

14.4.3. Known Errors

Ticket #	Description
#13	Implemented but not yet tested with ETBN

Table 187: Known Errors TRDPCTRL

14.4.4. Compatibility to Earlier Releases

Compatible to previous release.

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14.5. TRDPDNR

14.5.1. Corrected Errors

Ticket #	Description
#125	tau_dnr: TCN DNS support missing

Table 188: Corrected Errors TRDPDNR

14.5.2. New or Enhanced Functions

Ticket #	Description
None	

Table 189: New or enhanced functions TRDPDNR

14.5.3. Known Errors

Ticket #	Description
None	

Table 190: Known Errors TRDPDNR

14.5.4. Compatibility to Earlier Releases

Compatible to previous release.

14.6. TRDPTTI

14.6.1. Corrected Errors

Ticket #	Description
None	

Table 191: Corrected Errors TRDPTTI

14.6.2. New or Enhanced Functions

Ticket #	Description
None	

Table 192: New or enhanced functions TRDPTTI



14.6.3. Known Errors

Ticket #	Description
None	

Table 193: Known Errors TRDPTTI

14.6.4. Compatibility to Earlier Releases

Compatible to previous release.

14.7. TRDPSpy

14.7.1. Corrected Errors

Ticket #	Description
#157	Windows: TRDP Spy needs update for newer Wireshark versions (> 1.8.3)
#187	Windows: TRDP Spy dissector always expects 16 Bits variable size for arrays

Table 194: Corrected Errors TRDPSpy

14.7.2. New or Enhanced Functions

Ticket #	Description
None	

Table 195: New or enhanced functions TRDPSpy

14.7.3. Known Errors

Ticket #	Description
None	

Table 196: Known Errors TRDPSpy

14.7.4. Compatibility to Earlier Releases

Plugin only compatible to Wireshark 2.x. For Wireshark 1.8.3 use plugin of release 1.3.1.0.



15. History Release 1.4.2.0

15.1. TRDPLight

15.1.1. Corrected Errors

TICKET #	Description	
#225	Issue in Doxygen comment for vos_sc32()	
#226	Branch 1.3.1.0: Handle QoS value correctly	
#230	multiple Subscribers with same comId, sourceIPs but different destination	ationIPs n
#233	Write Access to XML file is not necessary	
#234	ComIds for Statistics Interface do not align with IEC61375-2-3	
#235	TRDP MD Listener issue if both unicast and multicast is used on the	same com
#236	[TRDP MD] Incorrect Socket Handling for Mixed Unicast and Multi	cast useag
#238	VOS: Public API headers include private header file	
#241	MDCallback: MsgType and reply status not set correctly	
#243	Function to add specialized subscriber in addition to general subscriber on same comId	
#246	Incorrect reading of "user" part of source uri and destination uri	
#249	Issue when parsing memory block configuration from config file	
#256	PD: possibility to "register" ComIDs subscribing on several multicast	t addresses
#259	Shared memory name not stored in VOS_SHRD_T handle (posix)	
#260	Error in vos_threadCreate() not handled properly (vxworks)	

Table 197: Corrected Errors TRDPLight

15.1.2. New or Enhanced Functions

Ticket #	Description
#244	Extend SendParameters to support VLAN Id and TSN

Table 198: New or enhanced functions TRDPLight

15.1.3. Known Errors

Ticket #	Description
#3	TRDPSTATS: Incorrect counter for received packets on dual interface (XLS #131)
#5 (XLS #37)	MD: For sent unicast MD TRDP assumes that only one reply may be received.
#21	Time dependent functions may fail in 2038 (wrap around of timeval)

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Ticket #	Description
#87	Example application for backbone-aware network is missing
#161	Increase performance
#162	Independent handling of PD and MD to reduce jitter
#169	WON'T FIX: Encapsulate declaration of packed structures within a
W172	<u>macro</u>
#173	WON'T FIX: <u>Invalid refCon in callbacks</u>
#191	Add provisions for TSN / Hard Real Time
#192	WON'T FIX: Compiler warnings on Windows (minGW)
#193	WON'T FIX: MinGW Unused params warnings
#198	WON'T FIX: PD Timeout cannot be disabled.
#227	Possibility to set interface default name used by vos
#229	Test application to change topocounter (emulate ETB gateway)
#239	WON'T FIX: VOS: Problematic type definitions
#240	WON'T FIX: TRDP topography counter check not standard conform
#242	System Requirements Doc: TRDP4025 contradicts standard
#251	WON'T FIX: BITSET types
#261	MD reply/add listener does not use send parameters

Table 199: Known Errors TRDPLight

15.1.4. Compatibility to Earlier Releases

Compatible to previous release.

15.2. TRDPMarshall

15.2.1. Corrected Errors

Ticket #	Description	
#252	Bug in unmarshalling/marshalling of TIMEDATE48 and TIMEDAT	<u>E64</u>

Table 200: Corrected Errors TRDPMarshall

15.2.2. New or Enhanced Functions

Ticket #	Description
None	



Table 201: New or enhanced functions TRDPMarshall

15.2.3. Known Errors

Ticket #	Description
None	

Table 202: Known Errors TRDPMarshall

15.2.4. Compatibility to Earlier Releases

Compatible to previous release.

15.3. TRDPXML

15.3.1. Corrected Errors

Ticket #	Description	
#228	TRDP_XMLPDTest.exe multicast issuer	
#231	XML config from stream buffer	
#232	Write Access to XML file is not necessary	
#250	Attribute missing in sdt-parameter element of XML configuration?	
#262	XML Parsing Bug Fixes for Debug Output Print Level and SDTv2 Paramet	ters

Table 203: Corrected Errors TRDPXML

15.3.2. New or Enhanced Functions

Ticket #	Description
None	

Table 204: New or enhanced functions TRDPXML

15.3.3. Known Errors

Ticket #	Description
#2 (XLS #64)	TRDPXML: Support of mapped devices missing
#163	WON'T FIX: Extend XML test to include SDT for MD

Table 205: Known Errors TRDPXML

15.3.4. Compatibility to Earlier Releases

Compatible to previous release.



15.4. TRDPCTRL

15.4.1. Corrected Errors

Ticket #	Description
None	

Table 206: Corrected Errors TRDPCTRL

15.4.2. New or Enhanced Functions

Ticket #	Description
None	

Table 207: New or enhanced functions TRDPCTRL

15.4.3. Known Errors

Ticket #	Description
#13	Implemented but not yet tested with ETBN

Table 208: Known Errors TRDPCTRL

15.4.4. Compatibility to Earlier Releases

Compatible to previous release.

15.5. TRDPDNR

15.5.1. Corrected Errors

Ticket #	Description
#237	Option to reduce wait times for DNR
#247	tau_uri2Addr() NULL check for pDNR

Table 209: Corrected Errors TRDPDNR

15.5.2. New or Enhanced Functions

Ticket #	Description
None	

Table 210: New or enhanced functions TRDPDNR



15.5.3. Known Errors

Ticket #	Description
None	

Table 211: Known Errors TRDPDNR

15.5.4. Compatibility to Earlier Releases

Compatible to previous release.

15.6. TRDPTTI

15.6.1. Corrected Errors

Ticket #	Description
#245	Incorrect storing of TTDB_OP_TRAIN_DIRECTORY_INFO from
	network packet into local copy
#248	tau_uri2Addr(): check for non zero IP address while searching cache
#253	Incorrect storing of TTDB_STATIC_CONSIST_INFO_REPLY from
	network packet into local copy
#254	API of TTI to get OwnOpCstNo and OwnTrnCstNo
#255	opTrnState of pTTDB isn't copied completely
#257	TTI: register for ComID100 PD to both valid multicast addresses

Table 212: Corrected Errors TRDPTTI

15.6.2. New or Enhanced Functions

Ticket #	Description
None	

Table 213: New or enhanced functions TRDPTTI

15.6.3. Known Errors

Ticket #	Description
#258	TTI subsystem should provide un-marshalled data to be used with SDT

Table 214: Known Errors TRDPTTI

15.6.4. Compatibility to Earlier Releases

Compatible to previous release.



15.7. TRDPSpy

15.7.1. Corrected Errors

Ticket #	Description
#157	Windows: TRDP Spy needs update for newer Wireshark versions (> 1.8.3)
#187	Windows: TRDP Spy dissector always expects 16 Bits variable size for arrays

Table 215: Corrected Errors TRDPSpy

15.7.2. New or Enhanced Functions

	Ticket #	Description
I	None	

Table 216: New or enhanced functions TRDPSpy

15.7.3. Known Errors

Ticket #	Description
None	

Table 217: Known Errors TRDPSpy

15.7.4. Compatibility to Earlier Releases

Plugins compatible to Wireshark 2.x. For Wireshark 1.8.3 use plugin of release 1.3.1.0.





16. Problem reporting

Please report detected problems with this release to https://sourceforge.net/p/tcnopen/tickets