

Document Title	SWS_FlexRayARTransportLayer: Complete Change Documentation 4.3.0 - 4.3.1
Document Owner	AUTOSAR
Document Responsibility	AUTOSAR
Document Identification No	695

Document Status	Final
Part of AUTOSAR Standard	Classic Platform
Part of Standard Release	4.3.1

Table of Contents

1	SWS_FlexRayARTransportLayer	3
1.1	Specification Item SWS_FrArTp_00219	3

1 SWS_FlexRayARTransportLayer

1.1 Specification Item SWS_FrArTp_00219

Trace References:

none

Content:

API function	Description
FrIf_Transmit	Requests transmission of a PDU.
PduR_FrArTpCopyRxData	This function is called to provide the received data of an I-PDU segment (N-PDU) to the upper layer. Each call to this function provides the next part of the I-PDU data. The size of the remaining data buffer is written to the position indicated by bufferSizePtr.
PduR_FrArTpCopyTxData	This function is called to acquire the transmit data of an I-PDU segment (N-PDU). Each call to this function provides the next part of the I-PDU data unless retry->TpDataState is TP_DATARETRY. In this case the function restarts to copy the data beginning at the offset from the current position indicated by retry->TxTpData Cnt. The size of the remaining data is written to the position indicated by availableDataPtr.
PduR_FrArTpRxIndication	Called after an I-PDU has been received via the TP API, the result indicates whether the transmission was successful or not.
PduR_FrArTpStartOfReception	This function is called at the start of receiving an N-SDU. The N-SDU might be fragmented into multiple N-PDUs (FF with one or more following CFs) or might consist of a single N-PDU (SF). The service shall provide the currently available maximum buffer size when invoked with TpSduLength equal to 0.
PduR_FrArTpTxConfirmation	This function is called after the I-PDU has been transmitted on its network, the result indicates whether the transmission was successful or not.

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77935: [PduR] Misleading description of CopyRxData

Problem description:

Name: Martin Schlodder
Role: Member of WP-A2

Description/Motivation:

The description of the CopyRxData API says: "The size of the remaining data

is written to the position indicated by bufferSizePtr."

This text seems to have been copied from the CopyTxData call, where it is correct. CopyRxData should talk about "remaining buffer", not "remaining data".

Agreed solution:

In the description of the API PduR_<User:LoTp>CopyRxData (SWS_PduR_00512), replace "remaining data" by "remaining buffer".

BW-C-Level:

Application	Specification	Bus
1	1	1