

ChrgMngt_ComCnvTx_T | 2022-10-17

ChrgMngt_ComCnvTx_T

[COMP]

RB Internal

I [ChrgMngt_ComCnvTx_T]

1 Function Definition

1.1 Purpose

Charge Management Communication Conversion of Transmit Signal

1.2 Introduction

Charge Management Communication Conversion of Transmit Signal

RB Internal

[illegible]

Figure 2 ChrgMngt_ComCnvTx_ChrgMngt_ComCnvTx_Runnable_10ms_sys [ChrgMngt_ComCnvTx_ChrgMngt_ComCnvTx_Runnable_10ms_sys]

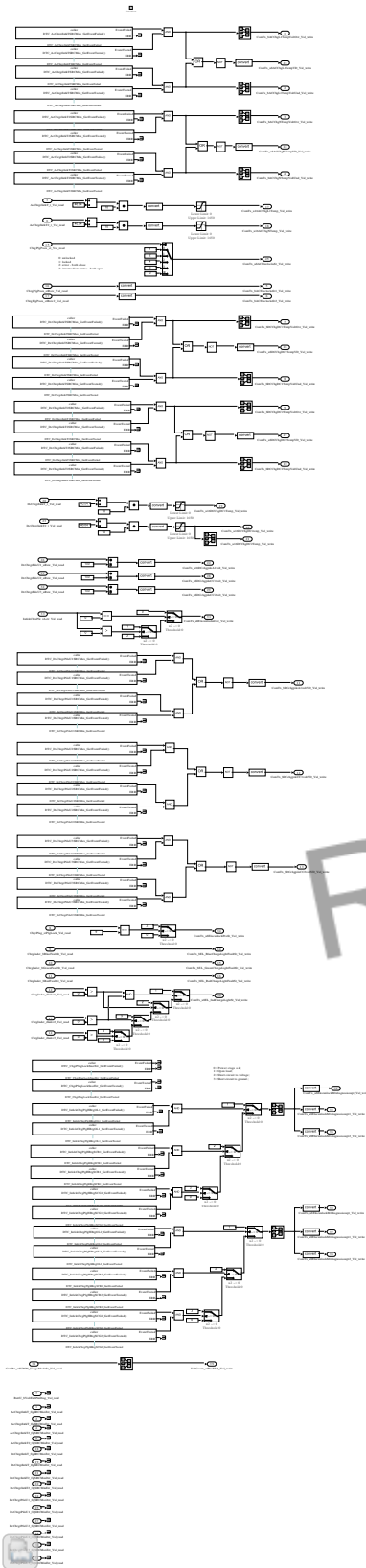


Figure 3 ChrgMngt_ComCnvTx_ChrgMngt_ComCnvTx_Runnable_Init [ChrgMngt_ComCnvTx_ChrgMngt_ComCnvTx_Runnable_Init]



Table 1 Data Types for port interfaces [PortInterfaceDataTypes]

Port	AccessMode	Interface	DE	Datatype
AcChrgInIntkT_flgSRCMaxErr	ImplicitReceive	AcChrgInIntkT_flgSRCMaxErr	Val	boolean
AcChrgInIntkT_flgSRCMinErr	ImplicitReceive	AcChrgInIntkT_flgSRCMinErr	Val	boolean
AcChrgInIntkT_t	ImplicitReceive	AcChrgInIntkT_t	Val	T_q0p1_o273p14_DegC_s16
AcChrgInIntkT2_flgSRCMaxErr	ImplicitReceive	AcChrgInIntkT2_flgSRCMaxErr	Val	boolean
AcChrgInIntkT2_flgSRCMinErr	ImplicitReceive	AcChrgInIntkT2_flgSRCMinErr	Val	boolean
AcChrgInIntkT2_t	ImplicitReceive	AcChrgInIntkT2_t	Val	T_q0p1_o273p14_DegC_s16
BattU_bVoltEnbPinDiag	ImplicitReceive	BattU_bVoltEnbPinDiag	Val	boolean
ChgrPlug_stPlgLock	ImplicitReceive	ChgrPlug_stPlgLock	Val	uint8
ChrgIndcr_bBlueFaultSt	ImplicitReceive	ChrgIndcr_bBlueFaultSt	Val	boolean
ChrgIndcr_bGreenFaultSt	ImplicitReceive	ChrgIndcr_bGreenFaultSt	Val	boolean
ChrgIndcr_bRedFaultSt	ImplicitReceive	ChrgIndcr_bRedFaultSt	Val	boolean
ChrgIndcr_rIndcr1	ImplicitReceive	ChrgIndcr_rIndcr1	Val	Perc_q0p0122_Perc_s16
ChrgIndcr_rIndcr2	ImplicitReceive	ChrgIndcr_rIndcr2	Val	Perc_q0p0122_Perc_s16
ChrgIndcr_rIndcr3	ImplicitReceive	ChrgIndcr_rIndcr3	Val	Perc_q0p0122_Perc_s16
ChrgPlgPosn_st	ImplicitReceive	ChrgPlgPosn_st	Val	uint8
ChrgPlgPosn_stRaw	ImplicitReceive	ChrgPlgPosn_stRaw	Val	uint8
ChrgPlgPosn_stRaw2	ImplicitReceive	ChrgPlgPosn_stRaw2	Val	uint8
DcChrgInIntkT_flgSRCMaxErr	ImplicitReceive	DcChrgInIntkT_flgSRCMaxErr	Val	boolean
DcChrgInIntkT_flgSRCMinErr	ImplicitReceive	DcChrgInIntkT_flgSRCMinErr	Val	boolean
DcChrgInIntkT_t	ImplicitReceive	DcChrgInIntkT_t	Val	T_q0p1_o273p14_DegC_s16
DcChrgInIntkT2_flgSRCMaxErr	ImplicitReceive	DcChrgInIntkT2_flgSRCMaxErr	Val	boolean
DcChrgInIntkT2_flgSRCMinErr	ImplicitReceive	DcChrgInIntkT2_flgSRCMinErr	Val	boolean
DcChrgInIntkT2_t	ImplicitReceive	DcChrgInIntkT2_t	Val	T_q0p1_o273p14_DegC_s16
DcChrgPileU1_flgSRCMaxErr	ImplicitReceive	DcChrgPileU1_flgSRCMaxErr	Val	boolean
DcChrgPileU1_flgSRCMinErr	ImplicitReceive	DcChrgPileU1_flgSRCMinErr	Val	boolean
DcChrgPileU1_uRaw	ImplicitReceive	DcChrgPileU1_uRaw	Val	U_q1_mV_u16
DcChrgPileU2_flgSRCMaxErr	ImplicitReceive	DcChrgPileU2_flgSRCMaxErr	Val	boolean
DcChrgPileU2_flgSRCMinErr	ImplicitReceive	DcChrgPileU2_flgSRCMinErr	Val	boolean
DcChrgPileU2_uRaw	ImplicitReceive	DcChrgPileU2_uRaw	Val	U_q1_mV_u16
DcChrgPileU3_flgSRCMaxErr	ImplicitReceive	DcChrgPileU3_flgSRCMaxErr	Val	boolean
DcChrgPileU3_flgSRCMinErr	ImplicitReceive	DcChrgPileU3_flgSRCMinErr	Val	boolean
DcChrgPileU3_uRaw	ImplicitReceive	DcChrgPileU3_uRaw	Val	U_q1_mV_u16
IntlckChrgPlg_rActr	ImplicitReceive	IntlckChrgPlg_rActr	Val	Perc_q0p0122_Perc_s16
ComRx_u8UMM_UsageModeSt	ImplicitReceive	ComRx_u8UMM_UsageModeSt	Val	uint8
ComTx_bACChgL1TempVOLTovr	ImplicitSend	ComTx_bACChgL1TempVOLTovr	Val	boolean
ComTx_bACChgL1TempVOLTUnd	ImplicitSend	ComTx_bACChgL1TempVOLTUnd	Val	boolean
ComTx_bACChgNTempVOLTovr	ImplicitSend	ComTx_bACChgNTempVOLTovr	Val	boolean

Port	AccessMode	Interface	DE	Datatype
ComTx_bACChgNTempVOLTUnd	ImplicitSend	ComTx_bACChgNTempVOLTUnd	Val	boolean
ComTx_bACEleclocksSt1	ImplicitSend	ComTx_bACEleclocksSt1	Val	boolean
ComTx_bACEleclocksSt2	ImplicitSend	ComTx_bACEleclocksSt2	Val	boolean
ComTx_bDCChgDC1TempVOLTovr	ImplicitSend	ComTx_bDCChgDC1TempVOLTovr	Val	boolean
ComTx_bDCChgDC1TempVOLTUnd	ImplicitSend	ComTx_bDCChgDC1TempVOLTUnd	Val	boolean
ComTx_bDCChgDC2TempVOLTovr	ImplicitSend	ComTx_bDCChgDC2TempVOLTovr	Val	boolean
ComTx_bDCChgDC2TempVOLTUnd	ImplicitSend	ComTx_bDCChgDC2TempVOLTUnd	Val	boolean
ComTx_bDCChgpileA1voltVD	ImplicitSend	ComTx_bDCChgpileA1voltVD	Val	boolean
ComTx_bDCChgpileCC1voltVD	ImplicitSend	ComTx_bDCChgpileCC1voltVD	Val	boolean
ComTx_bDCChgpileCC2voltVD	ImplicitSend	ComTx_bDCChgpileCC2voltVD	Val	boolean
ComTx_bEL_BlueChargeLightFaultSt	ImplicitSend	ComTx_bEL_BlueChargeLightFaultSt	Val	Inherit: auto
ComTx_bEL_GreenChargeLightFaultSt	ImplicitSend	ComTx_bEL_GreenChargeLightFaultSt	Val	Inherit: auto
ComTx_bEL_RedChargeLightFaultSt	ImplicitSend	ComTx_bEL_RedChargeLightFaultSt	Val	Inherit: auto
ComTx_u16ACChgL1Temp	ImplicitSend	ComTx_u16ACChgL1Temp	Val	uint16
ComTx_u16ACChgNTemp	ImplicitSend	ComTx_u16ACChgNTemp	Val	uint16
ComTx_u16DCChgDC1Temp	ImplicitSend	ComTx_u16DCChgDC1Temp	Val	uint16
ComTx_u16DCChgDC2Temp	ImplicitSend	ComTx_u16DCChgDC2Temp	Val	uint16
ComTx_u16DCChgDC2Temp	ImplicitSend	ComTx_u16DCChgDC2Temp	Val	uint16
ComTx_u16DCChgpileA1volt	ImplicitSend	ComTx_u16DCChgpileA1volt	Val	uint16
ComTx_u8ACChgL1TempVD	ImplicitSend	ComTx_u8ACChgL1TempVD	Val	uint8
ComTx_u8ACChgNTempVD	ImplicitSend	ComTx_u8ACChgNTempVD	Val	uint8
ComTx_u8ACEleclocksSt	ImplicitSend	ComTx_u8ACEleclocksSt	Val	uint8
ComTx_u8DCChgDC1TempVD	ImplicitSend	ComTx_u8DCChgDC1TempVD	Val	uint8
ComTx_u8DCChgDC2TempVD	ImplicitSend	ComTx_u8DCChgDC2TempVD	Val	uint8
ComTx_u8DCChgpileCC1volt	ImplicitSend	ComTx_u8DCChgpileCC1volt	Val	uint8
ComTx_u8DCChgpileCC2volt	ImplicitSend	ComTx_u8DCChgpileCC2volt	Val	uint8
ComTx_u8EL_IndChargeLightSt	ImplicitSend	ComTx_u8EL_IndChargeLightSt	Val	uint8
ComTx_u8Elecunlockdrvst	ImplicitSend	ComTx_u8Elecunlockdrvst	Val	uint8
ComTx_u8Elecunlock-kM1diagnosisoupt	ImplicitSend	ComTx_u8Elecunlock-kM1diagnosisoupt	Val	uint8
ComTx_u8Elecunlock-kM2diagnosisoupt	ImplicitSend	ComTx_u8Elecunlock-kM2diagnosisoupt	Val	uint8
ComTx_u8ElecunlockProSt	ImplicitSend	ComTx_u8ElecunlockProSt	Val	uint8
ComTx_u8Elecunlock-kM1diagnosisoupt1	ImplicitSend	ComTx_u8Elecunlock-kM1diagnosisoupt1	Val	uint8
ComTx_u8Elecunlock-kM1diagnosisoupt2	ImplicitSend	ComTx_u8Elecunlock-kM1diagnosisoupt2	Val	uint8
ComTx_u8Elecunlock-kM2diagnosisoupt1	ImplicitSend	ComTx_u8Elecunlock-kM2diagnosisoupt1	Val	uint8

Port	AccessMode	Interface	DE	Datatype
ComTx_u8Elecunloc-kM2diagnosisoupt2	ImplicitSend	ComTx_u8Elecunloc-kM2diagnosisoupt2	Val	uint8
VehCoorn_stPwrMod	ImplicitSend	VehCoorn_stPwrMod	Val	uint8

Table 2 Data Types for ADT [ApplicationDataTypes]

Name	Length	IsSigned	CompuMethod
Perc_q0p0122_Perc_s16	16	true	CM_Perc_q0p0122_Perc
T_q0p1_o273p14_DegC_s16	16	true	CM_T_q0p1_o273p14_DegC
U_q1_mV_u16	16	false	CM_U_q1_mV

3 Conversion forms

Table 3 Conversion forms

Name	Category	Unit	Contents int
CM_Fac_q0p001	LINEAR		f(phys) := 1000phys
CM_Frq_q0p1_Hz	LINEAR	Hz	f(phys) := 10phys
CM_I_q0p25_mA	LINEAR	mA	f(phys) := 4phys
CM_N_q1_rpm	LINEAR		f(phys) := 1phys
CM_P_q2_hPa	LINEAR	hPa	f(phys) := 1phys / 2
CM_Perc_q0p0122_Perc	LINEAR	%	f(phys) := 81.92phys
CM_T_q0p1_o273p14_DegC	LINEAR	DegC	f(phys) := (10phys-2731.3999999999996)
CM_Ti_q0p001_s	LINEAR		f(phys) := 1000phys
CM_Ti_q1_us	LINEAR	us	f(phys) := 1phys
CM_U_q1_mV	LINEAR	mV	f(phys) := 1phys
CM_boolean	TEXTTABLE		(FALSE, 0), (TRUE, 1)
Dem_DTCFormatType	TEXTTABLE		(DEM_DTC_FORMAT_OBD, 0), (DEM_DTC_FORMAT_UDS, 1), (DEM_DTC_FORMAT_J1939, 2)
Dem_DebounceResetStatusType	TEXTTABLE		(DEM_DEBOUNCE_STATUS_FREEZE, 0), (DEM_DEBOUNCE_STATUS_RESET, 1)
Dem_EventStatusType	TEXTTABLE		(DEM_EVENT_STATUS_PASSED, 0), (DEM_EVENT_STATUS_FAILED, 1), (DEM_EVENT_STATUS_PREPASSED, 2), (DEM_EVENT_STATUS_PREFAILED, 3), (DEM_EVENT_STATUS_FDC_THRESHOLD_REACHED, 4), (DEM_EVENT_STATUS_PASSED_CONDITIONS_NOT_FULFILLED, 5), (DEM_EVENT_STATUS_FAILED_CONDITIONS_NOT_FULFILLED, 6), (DEM_EVENT_STATUS_PREPASSED_CONDITIONS_NOT_FULFILLED, 7), (DEM_EVENT_STATUS_PREFAILED_CONDITIONS_NOT_FULFILLED, 8)
Dem_UdsStatusByteType	SCALE_LINEAR_AND_TEXTTABLE		
Identcl	IDENTICAL		
boolean_CompuMethod	TEXTTABLE		(FALSE, 0), (TRUE, 1)

II Production Note

Table 4 Configuration chosen for DocuNG

Parameter	Value
User	
Project Name	GAC_ZCUT_FRM_C0Sample
Generator Mode	Continue on non-fatal error
Ascet graphic generator engine	UnifiedGraphicGenerator
Matlab graphic generator engine	UnifiedGraphicGenerator
DocType	CDGBookAllDetailed
Condition Evaluation	true
Title Page Logo	
Print Algorithms To Review	true
Support Fallback Language	true
Print List Of Converted System Constants	true
Create Label Alias Mapping	true
HTML	false
PDF	true
PDF: Language	EN - English
PDF: Links in Graphics	true
PDF: Line Numbers	false
PDF: Confidential Level 2	true
PDF: Docu Security Option	false

Table 5 Version Information

Program Module	Version
Product	AEEE-Pro 2020.2.0