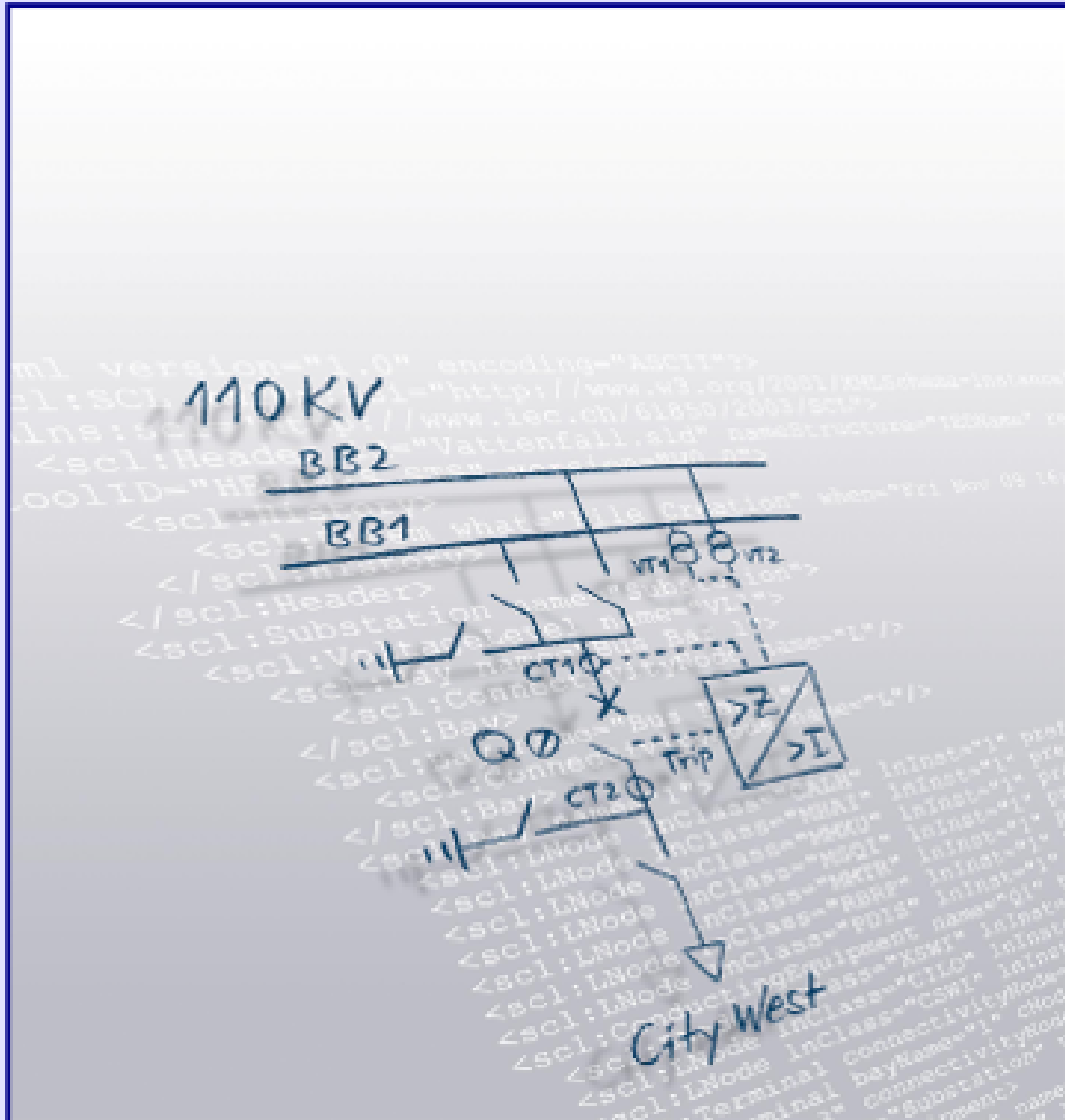


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1. SCD History

Revision	Version	What	When	Who	Why
R000	V1	Starting Point	Tue Mar 07 12:46:42 CET 2023	JR	Helinks STS Top Down Demo

Table 1. SCD History

2. General Specification

3. Berlin Single Line and Functions

3.1. Berlin

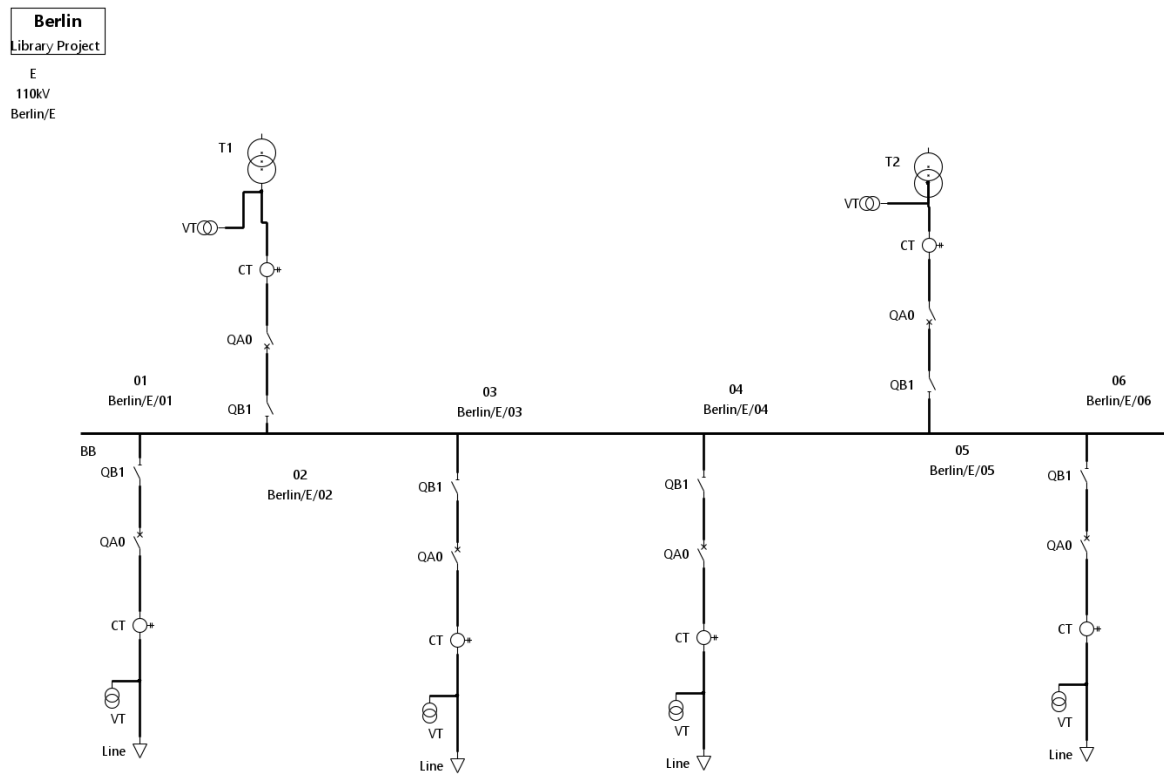


Figure 1. Single Line

3.2. Application Schemes

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/01/Measurement
- SampledMeasurements.Current:hlx_Berlin/E/01/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/01/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/01/Measurement	A.TCTR.5
I2 sv	Berlin/E/01/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/01/Measurement	B.TCTR.1
I3 sv	Berlin/E/01/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/01/Measurement	C.TCTR.4
I Neut sv	Berlin/E/01/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/01/Measurement	N.TCTR.6

Table 2. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E01PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E01BCU	Measurement	TCTR
AmpSv.instMag.f[MX]	E01PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E01BCU	Measurement	TCTR
AmpSv.instMag.i[MX]	E01PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E01BCU	Measurement	TCTR
AmpSv.instMag.i[MX]	E01PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E01BCU	Measurement	TCTR

Table 3. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/01/Distance
- SampledMeasurements.Current:hlx_Berlin/E/01/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/01/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/01/Distance	A.TCTR.2
I2 sv	Berlin/E/01/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/01/Distance	B.TCTR.3
I3 sv	Berlin/E/01/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/01/Distance	C.TCTR.7
I Neut sv	Berlin/E/01/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/01/Distance	N.TCTR.8

Table 4. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E01PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E01BPU	LD0.LLN0	
AmpSv.instMag.f[MX]	E01PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E01BPU	LD0.LLN0	
AmpSv.instMag.i[MX]	E01PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E01BPU	LD0.LLN0	
AmpSv.instMag.i[MX]	E01PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E01BPU	LD0.LLN0	

Table 5. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/01/Overcurrent
- SampledMeasurements.Current:hlx_Berlin/E/01/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/01/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/01/Overcurrent	A.TCTR.5
I2 sv	Berlin/E/01/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/01/Overcurrent	B.TCTR.1
I3 sv	Berlin/E/01/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/01/Overcurrent	C.TCTR.4
I Neut sv	Berlin/E/01/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/01/Overcurrent	N.TCTR.6

Table 6. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E01PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E01BUP	System.GGIO	
AmpSv.instMag.f[MX]	E01PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E01BUP	System.GGIO	
AmpSv.instMag.i[MX]	E01PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E01BUP	System.GGIO	
AmpSv.instMag.i[MX]	E01PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E01BUP	System.GGIO	

Table 7. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/01/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/01/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/01/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/01/Measurement	A.TVTR.2
U2 sv	Berlin/E/01/VT	BTVTR2.VolSv.instMag.i[MX]	Berlin/E/01/Measurement	B.TVTR.12

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U3 sv	Berlin/E/01/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/01/Measurement	C.TVTR.14
U Neut sv	Berlin/E/01/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/01/Measurement	N.TVTR.3

Table 8. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E01PIU		VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E01BCU	Measurement	TVTR
VolSv.instMag.i[MX]E01PIU		VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E01BCU	Measurement	TVTR
VolSv.instMag.i[MX]E01PIU		VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E01BCU	Measurement	TVTR
VolSv.instMag.i[MX]E01PIU		VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E01BCU	Measurement	TVTR

Table 9. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/01/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/01/Distance

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/01/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/01/Distance	A.TVTR.7
U2 sv	Berlin/E/01/VT	BTVT2.VolSv.instMag.i[MX]	Berlin/E/01/Distance	B.TVTR.8
U3 sv	Berlin/E/01/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/01/Distance	C.TVTR.4
U Neut sv	Berlin/E/01/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/01/Distance	N.TVTR.1

Table 10. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E01PIU		VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E01BPU	LD0.LLN0	
VolSv.instMag.i[MX]E01PIU		VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E01BPU	LD0.LLN0	
VolSv.instMag.i[MX]E01PIU		VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E01BPU	LD0.LLN0	
VolSv.instMag.i[MX]E01PIU		VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E01BPU	LD0.LLN0	

Table 11. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/02/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/02/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/02/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/02/Measurement	A.TVTR.2
U2 sv	Berlin/E/02/VT	BTVT2.VolSv.instMag.i[MX]	Berlin/E/02/Measurement	B.TVTR.12
U3 sv	Berlin/E/02/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/02/Measurement	C.TVTR.14
U Neut sv	Berlin/E/02/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/02/Measurement	N.TVTR.3

Table 12. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E02PIU		VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E02BCU	null.null	
VolSv.instMag.i[MX]E02PIU		VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E02BCU	null.null	
VolSv.instMag.i[MX]E02PIU		VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E02BCU	null.null	
VolSv.instMag.i[MX]E02PIU		VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E02BCU	null.null	

Table 13. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/02/Measurement
- SampledMeasurements.Current:hlx_Berlin/E/02/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/02/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/02/Measurement	A.TCTR.5
I2 sv	Berlin/E/02/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/02/Measurement	B.TCTR.1
I3 sv	Berlin/E/02/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/02/Measurement	C.TCTR.4
I Neut sv	Berlin/E/02/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/02/Measurement	N.TCTR.6

Table 14. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]E02PIU		CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E02BCU	null.null	
AmpSv.instMag.f[MX]E02PIU		CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E02BCU	null.null	
AmpSv.instMag.i[MX]E02PIU		CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E02BCU	null.null	
AmpSv.instMag.i[MX]E02PIU		CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E02BCU	null.null	

Table 15. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/02/Differential
- SampledMeasurements.Current:hlx_Berlin/E/02/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/02/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/02/Differential	A.TCTR.2
I2 sv	Berlin/E/02/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/02/Differential	B.TCTR.3
I3 sv	Berlin/E/02/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/02/Differential	C.TCTR.1
I Neut sv	Berlin/E/02/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/02/Differential	N.TCTR.4

Table 16. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]E02PIU		CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E02BPU	Differential.TCTR	
AmpSv.instMag.f[MX]E02PIU		CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E02BPU	Differential.TCTR	
AmpSv.instMag.i[MX]E02PIU		CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E02BPU	Differential.TCTR	

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]E02PIU		CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E02BPU	Differential.	TCTR

Table 17. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/02/Overcurrent
- SampledMeasurements.Current:hlx_Berlin/E/02/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/02/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/02/Overcurrent	A.TCTR.5
I2 sv	Berlin/E/02/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/02/Overcurrent	B.TCTR.1
I3 sv	Berlin/E/02/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/02/Overcurrent	C.TCTR.4
I Neut sv	Berlin/E/02/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/02/Overcurrent	N.TCTR.6

Table 18. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]E02PIU		CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E02BUP	Overcurrent.	TCTR
AmpSv.instMag.f[MX]E02PIU		CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E02BUP	Overcurrent.	TCTR
AmpSv.instMag.i[MX]E02PIU		CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E02BUP	Overcurrent.	TCTR
AmpSv.instMag.i[MX]E02PIU		CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E02BUP	Overcurrent.	TCTR

Table 19. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/05/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/05/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/05/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/05/Measurement	A.TVTR.2
U2 sv	Berlin/E/05/VT	BTVTR2.VolSv.instMag.i[MX]	Berlin/E/05/Measurement	B.TVTR.12
U3 sv	Berlin/E/05/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/05/Measurement	C.TVTR.14
U Neut sv	Berlin/E/05/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/05/Measurement	N.TVTR.3

Table 20. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E05PIU		VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E05BCU	null.null	
VolSv.instMag.i[MX]E05PIU		VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E05BCU	null.null	
VolSv.instMag.i[MX]E05PIU		VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E05BCU	null.null	
VolSv.instMag.i[MX]E05PIU		VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E05BCU	null.null	

Table 21. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/05/Measurement
- SampledMeasurements.Current:hlx_Berlin/E/05/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/05/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/05/Measurement	A.TCTR.5
I2 sv	Berlin/E/05/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/05/Measurement	B.TCTR.1
I3 sv	Berlin/E/05/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/05/Measurement	C.TCTR.4
I Neut sv	Berlin/E/05/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/05/Measurement	N.TCTR.6

Table 22. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E05PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E05BCU	null.null	
AmpSv.instMag.f[MX]	E05PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E05BCU	null.null	
AmpSv.instMag.i[MX]	E05PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E05BCU	null.null	
AmpSv.instMag.i[MX]	E05PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E05BCU	null.null	

Table 23. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/05/Differential
- SampledMeasurements.Current:hlx_Berlin/E/05/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/05/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/05/Differential	A.TCTR.2
I2 sv	Berlin/E/05/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/05/Differential	B.TCTR.3
I3 sv	Berlin/E/05/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/05/Differential	C.TCTR.1
I Neut sv	Berlin/E/05/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/05/Differential	N.TCTR.4

Table 24. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E05PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E05BPU	Differential.TCTR	
AmpSv.instMag.f[MX]	E05PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E05BPU	Differential.TCTR	
AmpSv.instMag.i[MX]	E05PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E05BPU	Differential.TCTR	
AmpSv.instMag.i[MX]	E05PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E05BPU	Differential.TCTR	

Table 25. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/05/Overcurrent
- SampledMeasurements.Current:hlx_Berlin/E/05/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/05/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/05/Overcurrent	A.TCTR.5
I2 sv	Berlin/E/05/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/05/Overcurrent	B.TCTR.1

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I3 sv	Berlin/E/05/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/05/Overcurrent	C.TCTR.4
I Neut sv	Berlin/E/05/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/05/Overcurrent	N.TCTR.6

Table 26. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E05PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E05BUP	Overcurrent.	TCTR
AmpSv.instMag.f[MX]	E05PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E05BUP	Overcurrent.	TCTR
AmpSv.instMag.i[MX]	E05PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E05BUP	Overcurrent.	TCTR
AmpSv.instMag.i[MX]	E05PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E05BUP	Overcurrent.	TCTR

Table 27. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/03/Measurement
- SampledMeasurements.Current:hlx_Berlin/E/03/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/03/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/03/Measurement	A.TCTR.5
I2 sv	Berlin/E/03/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/03/Measurement	B.TCTR.1
I3 sv	Berlin/E/03/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/03/Measurement	C.TCTR.4
I Neut sv	Berlin/E/03/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/03/Measurement	N.TCTR.6

Table 28. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E03PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E03BCU	Measurement.	TCTR
AmpSv.instMag.f[MX]	E03PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E03BCU	Measurement.	TCTR
AmpSv.instMag.i[MX]	E03PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E03BCU	Measurement.	TCTR
AmpSv.instMag.i[MX]	E03PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E03BCU	Measurement.	TCTR

Table 29. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/03/Distance
- SampledMeasurements.Current:hlx_Berlin/E/03/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/03/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/03/Distance	A.TCTR.2
I2 sv	Berlin/E/03/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/03/Distance	B.TCTR.3
I3 sv	Berlin/E/03/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/03/Distance	C.TCTR.7
I Neut sv	Berlin/E/03/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/03/Distance	N.TCTR.8

Table 30. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]E03PIU		CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E03BPU	LD0.LLN0	
AmpSv.instMag.f[MX]E03PIU		CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E03BPU	LD0.LLN0	
AmpSv.instMag.i[MX]E03PIU		CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E03BPU	LD0.LLN0	
AmpSv.instMag.i[MX]E03PIU		CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E03BPU	LD0.LLN0	

Table 31. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/03/Overcurrent
- SampledMeasurements.Current:hlx_Berlin/E/03/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/03/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/03/Overcurrent	A.TCTR.5
I2 sv	Berlin/E/03/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/03/Overcurrent	B.TCTR.1
I3 sv	Berlin/E/03/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/03/Overcurrent	C.TCTR.4
I Neut sv	Berlin/E/03/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/03/Overcurrent	N.TCTR.6

Table 32. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]E03PIU		CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E03BUP	System.GGIO	
AmpSv.instMag.f[MX]E03PIU		CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E03BUP	System.GGIO	
AmpSv.instMag.i[MX]E03PIU		CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E03BUP	System.GGIO	
AmpSv.instMag.i[MX]E03PIU		CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E03BUP	System.GGIO	

Table 33. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/03/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/03/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/03/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/03/Measurement	A.TVTR.2
U2 sv	Berlin/E/03/VT	BTVTR2.VolSv.instMag.i[MX]	Berlin/E/03/Measurement	B.TVTR.12
U3 sv	Berlin/E/03/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/03/Measurement	C.TVTR.14
U Neut sv	Berlin/E/03/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/03/Measurement	N.TVTR.3

Table 34. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E03PIU		VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E03BCU	Measurement.TVTR	
VolSv.instMag.i[MX]E03PIU		VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E03BCU	Measurement.TVTR	
VolSv.instMag.i[MX]E03PIU		VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E03BCU	Measurement.TVTR	

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E03PIU		VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E03BCU	Measurement	TVTR

Table 35. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/03/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/03/Distance

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/03/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/03/Distance	A.TVTR.7
U2 sv	Berlin/E/03/VT	BTVTR2.VolSv.instMag.i[MX]	Berlin/E/03/Distance	B.TVTR.8
U3 sv	Berlin/E/03/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/03/Distance	C.TVTR.4
U Neut sv	Berlin/E/03/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/03/Distance	N.TVTR.1

Table 36. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E03PIU		VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E03BPU	LD0.LLN0	
VolSv.instMag.i[MX]E03PIU		VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E03BPU	LD0.LLN0	
VolSv.instMag.i[MX]E03PIU		VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E03BPU	LD0.LLN0	
VolSv.instMag.i[MX]E03PIU		VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E03BPU	LD0.LLN0	

Table 37. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/04/Measurement
- SampledMeasurements.Current:hlx_Berlin/E/04/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/04/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/04/Measurement	A.TCTR.5
I2 sv	Berlin/E/04/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/04/Measurement	B.TCTR.1
I3 sv	Berlin/E/04/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/04/Measurement	C.TCTR.4
I Neut sv	Berlin/E/04/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/04/Measurement	N.TCTR.6

Table 38. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]E04PIU		CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E04BCU	Measurement	TCTR
AmpSv.instMag.f[MX]E04PIU		CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E04BCU	Measurement	TCTR
AmpSv.instMag.i[MX]E04PIU		CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E04BCU	Measurement	TCTR
AmpSv.instMag.i[MX]E04PIU		CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E04BCU	Measurement	TCTR

Table 39. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/04/Distance
- SampledMeasurements.Current:hlx_Berlin/E/04/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/04/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/04/Distance	A.TCTR.2
I2 sv	Berlin/E/04/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/04/Distance	B.TCTR.3
I3 sv	Berlin/E/04/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/04/Distance	C.TCTR.7
I Neut sv	Berlin/E/04/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/04/Distance	N.TCTR.8

Table 40. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E04PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E04BPU	LD0.LLN0	
AmpSv.instMag.f[MX]	E04PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E04BPU	LD0.LLN0	
AmpSv.instMag.i[MX]	E04PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E04BPU	LD0.LLN0	
AmpSv.instMag.i[MX]	E04PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E04BPU	LD0.LLN0	

Table 41. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/04/Overcurrent
- SampledMeasurements.Current:hlx_Berlin/E/04/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/04/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/04/Overcurrent	A.TCTR.5
I2 sv	Berlin/E/04/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/04/Overcurrent	B.TCTR.1
I3 sv	Berlin/E/04/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/04/Overcurrent	C.TCTR.4
I Neut sv	Berlin/E/04/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/04/Overcurrent	N.TCTR.6

Table 42. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E04PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	smvcba	E04BUP	System.GGIO	
AmpSv.instMag.f[MX]	E04PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	smvcba	E04BUP	System.GGIO	
AmpSv.instMag.i[MX]	E04PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	smvcba	E04BUP	System.GGIO	
AmpSv.instMag.i[MX]	E04PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E04BUP	System.GGIO	

Table 43. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/04/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/04/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/04/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/04/Measurement	A.TVTR.2
U2 sv	Berlin/E/04/VT	BTVTR2.VolSv.instMag.i[MX]	Berlin/E/04/Measurement	B.TVTR.12

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U3 sv	Berlin/E/04/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/04/Measurement	C.TVTR.14
U Neut sv	Berlin/E/04/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/04/Measurement	N.TVTR.3

Table 44. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E04PIU		VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E04BCU	Measurement	TVTR
VolSv.instMag.i[MX]E04PIU		VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E04BCU	Measurement	TVTR
VolSv.instMag.i[MX]E04PIU		VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E04BCU	Measurement	TVTR
VolSv.instMag.i[MX]E04PIU		VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E04BCU	Measurement	TVTR

Table 45. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/04/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/04/Distance

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/04/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/04/Distance	A.TVTR.7
U2 sv	Berlin/E/04/VT	BTVT2.VolSv.instMag.i[MX]	Berlin/E/04/Distance	B.TVTR.8
U3 sv	Berlin/E/04/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/04/Distance	C.TVTR.4
U Neut sv	Berlin/E/04/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/04/Distance	N.TVTR.1

Table 46. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E04PIU		VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E04BPU	LD0.LLN0	
VolSv.instMag.i[MX]E04PIU		VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E04BPU	LD0.LLN0	
VolSv.instMag.i[MX]E04PIU		VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E04BPU	LD0.LLN0	
VolSv.instMag.i[MX]E04PIU		VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E04BPU	LD0.LLN0	

Table 47. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/06/Measurement
- SampledMeasurements.Current:hlx_Berlin/E/06/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/06/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/06/Measurement	A.TCTR.5
I2 sv	Berlin/E/06/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/06/Measurement	B.TCTR.1
I3 sv	Berlin/E/06/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/06/Measurement	C.TCTR.4
I Neut sv	Berlin/E/06/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/06/Measurement	N.TCTR.6

Table 48. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E06PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	mvcb	E06BCU	Measurement	TCTR
AmpSv.instMag.f[MX]	E06PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	mvcb	E06BCU	Measurement	TCTR
AmpSv.instMag.i[MX]	E06PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	mvcb	E06BCU	Measurement	TCTR
AmpSv.instMag.i[MX]	E06PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	mvcb	E06BCU	Measurement	TCTR

Table 49. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/06/Distance
- SampledMeasurements.Current:hlx_Berlin/E/06/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/06/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/06/Distance	A.TCTR.2
I2 sv	Berlin/E/06/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/06/Distance	B.TCTR.3
I3 sv	Berlin/E/06/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/06/Distance	C.TCTR.7
I Neut sv	Berlin/E/06/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/06/Distance	N.TCTR.8

Table 50. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E06PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	mvcb	E06BPU	LD0.LLN0	
AmpSv.instMag.f[MX]	E06PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	mvcb	E06BPU	LD0.LLN0	
AmpSv.instMag.i[MX]	E06PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	mvcb	E06BPU	LD0.LLN0	
AmpSv.instMag.i[MX]	E06PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	mvcb	E06BPU	LD0.LLN0	

Table 51. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Berlin/E/06/Overcurrent
- SampledMeasurements.Current:hlx_Berlin/E/06/CT/Current Samples

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Berlin/E/06/CT	ATCTR1.AmpSv.instMag.i[MX]	Berlin/E/06/Overcurrent	A.TCTR.5
I2 sv	Berlin/E/06/CT	BTCTR2.AmpSv.instMag.f[MX]	Berlin/E/06/Overcurrent	B.TCTR.1
I3 sv	Berlin/E/06/CT	CTCTR3.AmpSv.instMag.i[MX]	Berlin/E/06/Overcurrent	C.TCTR.4
I Neut sv	Berlin/E/06/CT	NTCTR4.AmpSv.instMag.i[MX]	Berlin/E/06/Overcurrent	N.TCTR.6

Table 52. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E06PIU	CTCT.ATCTR1.AmpSv.instMag.i[MX]	mvcb	E06BUP	System.GGIO	
AmpSv.instMag.f[MX]	E06PIU	CTCT.BTCTR2.AmpSv.instMag.f[MX]	mvcb	E06BUP	System.GGIO	
AmpSv.instMag.i[MX]	E06PIU	CTCT.CTCTR3.AmpSv.instMag.i[MX]	mvcb	E06BUP	System.GGIO	

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E06PIU	CTCT.NTCTR4.AmpSv.instMag.i[MX]	smvcba	E06BUP	System.GGIO	

Table 53. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/06/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/06/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/06/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/06/Measurement	A.TVTR.2
U2 sv	Berlin/E/06/VT	BTVTR2.VolSv.instMag.i[MX]	Berlin/E/06/Measurement	B.TVTR.12
U3 sv	Berlin/E/06/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/06/Measurement	C.TVTR.14
U Neut sv	Berlin/E/06/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/06/Measurement	N.TVTR.3

Table 54. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]	E06PIU	VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E06BCU	Measurement	TVTR
VolSv.instMag.i[MX]	E06PIU	VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E06BCU	Measurement	TVTR
VolSv.instMag.i[MX]	E06PIU	VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E06BCU	Measurement	TVTR
VolSv.instMag.i[MX]	E06PIU	VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E06BCU	Measurement	TVTR

Table 55. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Berlin/E/06/VT/Voltage Samples
- SampledMeasurements.VoltageSubscriber:hlx_Berlin/E/06/Distance

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Berlin/E/06/VT	ATVTR1.VolSv.instMag.i[MX]	Berlin/E/06/Distance	A.TVTR.7
U2 sv	Berlin/E/06/VT	BTVTR2.VolSv.instMag.i[MX]	Berlin/E/06/Distance	B.TVTR.8
U3 sv	Berlin/E/06/VT	CTVTR3.VolSv.instMag.i[MX]	Berlin/E/06/Distance	C.TVTR.4
U Neut sv	Berlin/E/06/VT	NTVTR4.VolSv.instMag.i[MX]	Berlin/E/06/Distance	N.TVTR.1

Table 56. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute:	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]	E06PIU	VTVT.ATVTR1.VolSv.instMag.i[MX]	smvcba	E06BPU	LD0.LLN0	
VolSv.instMag.i[MX]	E06PIU	VTVT.BTVTR2.VolSv.instMag.i[MX]	smvcba	E06BPU	LD0.LLN0	
VolSv.instMag.i[MX]	E06PIU	VTVT.CTVTR3.VolSv.instMag.i[MX]	smvcba	E06BPU	LD0.LLN0	
VolSv.instMag.i[MX]	E06PIU	VTVT.NTVTR4.VolSv.instMag.i[MX]	smvcba	E06BPU	LD0.LLN0	

Table 57. SMV Message :SMV Configuration

Instance details

- SwitchControl.Control:hlx_Berlin/E/01/QB1/Control
- SwitchControl.Interface:hlx_Berlin/E/01/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/01/QB1	QB1XSWI1.Pos.stVal[ST]	Berlin/E/01/QB1/Control	QB1.CSWI.1
Operate Open	Berlin/E/01/QB1	QB1CSWI1.OpOpn.general[ST]	Berlin/E/01/QB1/Interface	QB1.XSWI.1
Operate Close	Berlin/E/01/QB1	QB1CSWI1.OpCls.general[ST]	Berlin/E/01/QB1/Interface	QB1.XSWI.1

Table 58. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E01PIU	QB1Interface.QB1XSWI1.Pos.stVal[ST]	TCB_12	E01BCU	QB1Control.CSWI	
OpOpn.general[ST]	E01BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	TCB_12	E01PIU	LD0.LLN0	
OpCls.general[ST]	E01BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	TCB_12	E01PIU	LD0.LLN0	

Table 59. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Berlin/E/02/QB1/Control
- SwitchControl.Interface:hlx_Berlin/E/02/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/02/QB1	QB1XSWI1.Pos.stVal[ST]	Berlin/E/02/QB1/Control	QB1.CSWI.1
Operate Open	Berlin/E/02/QB1	QB1CSWI1.OpOpn.general[ST]	Berlin/E/02/QB1/Interface	QB1.XSWI.1
Operate Close	Berlin/E/02/QB1	QB1CSWI1.OpCls.general[ST]	Berlin/E/02/QB1/Interface	QB1.XSWI.1

Table 60. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E02PIU	QB1Interface.QB1XSWI1.Pos.stVal[ST]	TCB_12	E02BCU	null.null	
OpOpn.general[ST]	E02BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	TCB_03	E02PIU	QB1Interface.XSWI	
OpCls.general[ST]	E02BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	TCB_03	E02PIU	QB1Interface.XSWI	

Table 61. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Berlin/E/05/QB1/Control
- SwitchControl.Interface:hlx_Berlin/E/05/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/05/QB1	QB1XSWI1.Pos.stVal[ST]	Berlin/E/05/QB1/Control	QB1.CSWI.1
Operate Open	Berlin/E/05/QB1	QB1CSWI1.OpOpn.general[ST]	Berlin/E/05/QB1/Interface	QB1.XSWI.1
Operate Close	Berlin/E/05/QB1	QB1CSWI1.OpCls.general[ST]	Berlin/E/05/QB1/Interface	QB1.XSWI.1

Table 62. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E05PIU	QB1Interface.QB1XSWI1.Pos.stVal[ST]	TCB_12	E05BCU	null.null	
OpOpn.general[ST]	E05BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	TCB_03	E05PIU	QB1Interface.XSWI	

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpCls.general[ST]	E05BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	QB1CB03	E05PIU	QB1Interface	.XSWI

Table 63. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Berlin/E/03/QB1/Control
- SwitchControl.Interface:hlx_Berlin/E/03/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/03/QB1	QB1XSWI1.Pos.stVal[ST]	Berlin/E/03/QB1/Control	QB1.CSWI.1
Operate Open	Berlin/E/03/QB1	QB1CSWI1.OpOpn.general[ST]	Berlin/E/03/QB1/Interface	QB1.XSWI.1
Operate Close	Berlin/E/03/QB1	QB1CSWI1.OpCls.general[ST]	Berlin/E/03/QB1/Interface	QB1.XSWI.1

Table 64. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E03PIU	QB1Interface.QB1XSWI1.Pos.stVal[ST]	QB1CB_l2	E03BCU	QB1Control	.CSWI
OpOpn.general[ST]	E03BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	QB1CB_l2	E03PIU	LD0.LLN0	
OpCls.general[ST]	E03BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	QB1CB_l2	E03PIU	LD0.LLN0	

Table 65. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Berlin/E/04/QB1/Control
- SwitchControl.Interface:hlx_Berlin/E/04/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/04/QB1	QB1XSWI1.Pos.stVal[ST]	Berlin/E/04/QB1/Control	QB1.CSWI.1
Operate Open	Berlin/E/04/QB1	QB1CSWI1.OpOpn.general[ST]	Berlin/E/04/QB1/Interface	QB1.XSWI.1
Operate Close	Berlin/E/04/QB1	QB1CSWI1.OpCls.general[ST]	Berlin/E/04/QB1/Interface	QB1.XSWI.1

Table 66. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E04PIU	QB1Interface.QB1XSWI1.Pos.stVal[ST]	QB1CB_l2	E04BCU	QB1Control	.CSWI
OpOpn.general[ST]	E04BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	QB1CB_l2	E04PIU	LD0.LLN0	
OpCls.general[ST]	E04BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	QB1CB_l2	E04PIU	LD0.LLN0	

Table 67. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Berlin/E/06/QB1/Control
- SwitchControl.Interface:hlx_Berlin/E/06/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/06/QB1	QB1XSWI1.Pos.stVal[ST]	Berlin/E/06/QB1/Control	QB1.CSWI.1
Operate Open	Berlin/E/06/QB1	QB1CSWI1.OpOpn.general[ST]	Berlin/E/06/QB1/Interface	QB1.XSWI.1
Operate Close	Berlin/E/06/QB1	QB1CSWI1.OpCls.general[ST]	Berlin/E/06/QB1/Interface	QB1.XSWI.1

Table 68. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E06PIU	QB1Interface.QB1XSWI1.Pos.stVal[ST]	QB1_12	E06BCU	QB1Control.CSWI	
OpOpn.general[ST]	E06BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	QB1_12	E06PIU	LD0.LLN0	
OpCls.general[ST]	E06BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	QB1_12	E06PIU	LD0.LLN0	

Table 69. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- BreakerControl.Control:hlx_Berlin/E/01/QA0/Control
- BreakerControl.Interface:hlx_Berlin/E/01/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/01/QA0	QA0XCBR1.Pos.stVal[ST]	Berlin/E/01/QA0/Control	QA0.CSWI.2
Operate Open	Berlin/E/01/QA0	QA0CSWI2.OpOpn.general[ST]	Berlin/E/01/QA0/Interface	QA0.XCBR.1
Operate Close	Berlin/E/01/QA0	QA0CSWI2.OpCls.general[ST]	Berlin/E/01/QA0/Interface	QA0.XCBR.1

Table 70. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E01PIU	QA0Interface.QA0XCBR1.Pos.stVal[ST]	QA0_11	E01BCU	QA0Control.CSWI	
OpOpn.general[ST]	E01BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	QA0_11	E01PIU	LD0.LLN0	
OpCls.general[ST]	E01BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	QA0_11	E01PIU	LD0.LLN0	

Table 71. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- BreakerControl.Control:hlx_Berlin/E/02/QA0/Control
- BreakerControl.Interface:hlx_Berlin/E/02/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/02/QA0	QA0XCBR1.Pos.stVal[ST]	Berlin/E/02/QA0/Control	QA0.CSWI.2
Operate Open	Berlin/E/02/QA0	QA0CSWI2.OpOpn.general[ST]	Berlin/E/02/QA0/Interface	QA0.XCBR.1
Operate Close	Berlin/E/02/QA0	QA0CSWI2.OpCls.general[ST]	Berlin/E/02/QA0/Interface	QA0.XCBR.1

Table 72. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E02PIU	QA0Interface.QA0XCBR1.Pos.stVal[ST]	QA0_11	E02BCU	null.null	
OpOpn.general[ST]	E02BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	QA0_02	E02PIU	QA0Interface.XCBR	
OpCls.general[ST]	E02BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	QA0_02	E02PIU	QA0Interface.XCBR	

Table 73. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- BreakerControl.Control:hlx_Berlin/E/05/QA0/Control
- BreakerControl.Interface:hlx_Berlin/E/05/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/05/QA0	QA0XCBR1.Pos.stVal[ST]	Berlin/E/05/QA0/Control	QA0.CSWI.2
Operate Open	Berlin/E/05/QA0	QA0CSWI2.OpOpn.general[ST]	Berlin/E/05/QA0/Interface	QA0.XCBR.1

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Close	Berlin/E/05/QA0	QA0CSWI2.OpCls.general[ST]	Berlin/E/05/QA0/Interface	QA0.XCBR.1

Table 74. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E05PIU	QA0Interface.QA0XCBR1.Pos.stVal[ST]	SCB_11	E05BCU	null.null	
OpOpn.general[ST]	E05BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	GSB02	E05PIU	QA0Interface.XCBR	
OpCls.general[ST]	E05BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	GSB02	E05PIU	QA0Interface.XCBR	

Table 75. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- BreakerControl.Control:hlx_Berlin/E/03/QA0/Control
- BreakerControl.Interface:hlx_Berlin/E/03/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/03/QA0	QA0XCBR1.Pos.stVal[ST]	Berlin/E/03/QA0/Control	QA0.CSWI.2
Operate Open	Berlin/E/03/QA0	QA0CSWI2.OpOpn.general[ST]	Berlin/E/03/QA0/Interface	QA0.XCBR.1
Operate Close	Berlin/E/03/QA0	QA0CSWI2.OpCls.general[ST]	Berlin/E/03/QA0/Interface	QA0.XCBR.1

Table 76. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E03PIU	QA0Interface.QA0XCBR1.Pos.stVal[ST]	SCB_11	E03BCU	QA0Control.CSWI	
OpOpn.general[ST]	E03BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	GSB02	E03PIU	LD0.LLN0	
OpCls.general[ST]	E03BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	GSB02	E03PIU	LD0.LLN0	

Table 77. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- BreakerControl.Control:hlx_Berlin/E/04/QA0/Control
- BreakerControl.Interface:hlx_Berlin/E/04/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/04/QA0	QA0XCBR1.Pos.stVal[ST]	Berlin/E/04/QA0/Control	QA0.CSWI.2
Operate Open	Berlin/E/04/QA0	QA0CSWI2.OpOpn.general[ST]	Berlin/E/04/QA0/Interface	QA0.XCBR.1
Operate Close	Berlin/E/04/QA0	QA0CSWI2.OpCls.general[ST]	Berlin/E/04/QA0/Interface	QA0.XCBR.1

Table 78. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E04PIU	QA0Interface.QA0XCBR1.Pos.stVal[ST]	SCB_11	E04BCU	QA0Control.CSWI	
OpOpn.general[ST]	E04BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	GSB02	E04PIU	LD0.LLN0	
OpCls.general[ST]	E04BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	GSB02	E04PIU	LD0.LLN0	

Table 79. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- BreakerControl.Control:hlx_Berlin/E/06/QA0/Control
- BreakerControl.Interface:hlx_Berlin/E/06/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Berlin/E/06/QA0	QA0XCBR1.Pos.stVal[ST]	Berlin/E/06/QA0/Control	QA0.CSW1.2
Operate Open	Berlin/E/06/QA0	QA0CSW12.OpOpn.general[ST]	Berlin/E/06/QA0/Interface	QA0.XCBR.1
Operate Close	Berlin/E/06/QA0	QA0CSW12.OpCls.general[ST]	Berlin/E/06/QA0/Interface	QA0.XCBR.1

Table 80. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E06PIU	QA0Interface.QA0XCBR1.Pos.stVal[ST]	gcb_11	E06BCU	QA0Control.CSWI	
OpOpn.general[ST]	E06BCU	QA0Control.QA0CSW12.OpOpn.general[ST]	gcb_11	E06PIU	LD0.LLN0	
OpCls.general[ST]	E06BCU	QA0Control.QA0CSW12.OpCls.general[ST]	gcb_11	E06PIU	LD0.LLN0	

Table 81. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/01/BreakerFailure
- BreakerFailureLine.BreakerFailureInit:hlx_Berlin/E/01/Trip

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Berlin/E/01	TripPTRC1.Tr.general[ST]	Berlin/E/01/BreakerFailure	RBRF.1

Table 82. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Tr.general[ST]	E01PIU	LD0.TripPTRC1.Tr.general[ST]	gcb_f1	E01BCU	BreakerFailure1.RBRF	

Table 83. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/01/BreakerFailure
- BreakerFailureLine.CBRInternTrip:hlx_Berlin/E/01/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Internal	Berlin/E/01	RBRF1.OpIn.general[ST]	Berlin/E/01/QA0/Interface	QA0.XCBR.1

Table 84. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpIn.general[ST]	E01BCU	BreakerFailure1.RBRF1.OpIn.general[ST]	gcb_f1	E01PIU	LD0.LLN0	

Table 85. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/01/BreakerFailure
- BreakerFailureLine.CBRExternTrip:hlx_Berlin/E/02/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/01	RBRF1.OpEx.general[ST]	Berlin/E/02/QA0/Interface	QA0.XCBR.1

Table 86. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E01BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	ST_f1	E02PIU	QA0Interface	XCBR

Table 87. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/01/BreakerFailure
- BreakerFailureLine.CBRExternTrip:hlx_Berlin/E/05/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/01	RBRF1.OpEx.general[ST]	Berlin/E/05/QA0/Interface	QA0.XCBR.1

Table 88. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E01BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	ST_f1	E05PIU	QA0Interface	XCBR

Table 89. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/03/BreakerFailure
- BreakerFailureLine.CBRExternTrip:hlx_Berlin/E/02/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/03	RBRF1.OpEx.general[ST]	Berlin/E/02/QA0/Interface	QA0.XCBR.1

Table 90. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E03BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	ST_f1	E02PIU	QA0Interface	XCBR

Table 91. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/03/BreakerFailure
- BreakerFailureLine.CBRExternTrip:hlx_Berlin/E/05/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/03	RBRF1.OpEx.general[ST]	Berlin/E/05/QA0/Interface	QA0.XCBR.1

Table 92. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E03BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	ST_f1	E05PIU	QA0Interface	XCBR

Table 93. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/03/BreakerFailure
- BreakerFailureLine.BreakerFailureInit:hlx_Berlin/E/03/Trip

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Berlin/E/03	TripPTRC1.Tr.general[ST]	Berlin/E/03/BreakerFailure	RBRF.1

Table 94. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Tr.general[ST]	E03PIU	LD0.TripPTRC1.Tr.general[ST]	gcb_f1	E03BCU	BreakerFailure1	RBRF

Table 95. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/03/BreakerFailure
- BreakerFailureLine.CBRInternTrip:hlx_Berlin/E/03/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Internal	Berlin/E/03	RBRF1.OpIn.general[ST]	Berlin/E/03/QA0/Interface	QA0.XCBR.1

Table 96. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpIn.general[ST]	E03BCU	BreakerFailure1.RBRF1.OpIn.general[ST]	gcb_f1	E03PIU	LD0.LLN0	

Table 97. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/04/BreakerFailure
- BreakerFailureLine.CBRExternTrip:hlx_Berlin/E/02/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/04	RBRF1.OpEx.general[ST]	Berlin/E/02/QA0/Interface	QA0.XCBR.1

Table 98. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E04BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	gcb_f1	E02PIU	QA0Interface	XCBR

Table 99. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/04/BreakerFailure
- BreakerFailureLine.CBRExternTrip:hlx_Berlin/E/05/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/04	RBRF1.OpEx.general[ST]	Berlin/E/05/QA0/Interface	QA0.XCBR.1

Table 100. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E04BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	gcb_f1	E05PIU	QA0Interface	XCBR

Table 101. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/04/BreakerFailure
- BreakerFailureLine.BreakerFailureInit:hlx_Berlin/E/04/Trip

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Berlin/E/04	TripPTRC1.Tr.general[ST]	Berlin/E/04/BreakerFailure	RBRF.1

Table 102. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Tr.general[ST]	E04PIU	LD0.TripPTRC1.Tr.general[ST]	gcb_f1	E04BCU	BreakerFailure1	RBRF

Table 103. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/04/BreakerFailure
- BreakerFailureLine.CBRInternTrip:hlx_Berlin/E/04/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Internal	Berlin/E/04	RBRF1.OpIn.general[ST]	Berlin/E/04/QA0/Interface	QA0.XCBR.1

Table 104. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpIn.general[ST]	E04BCU	BreakerFailure1.RBRF1.OpIn.general[ST]	gcb_f1	E04PIU	LD0.LLN0	

Table 105. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/06/BreakerFailure
- BreakerFailureLine.CBRExternTrip:hlx_Berlin/E/02/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/06	RBRF1.OpEx.general[ST]	Berlin/E/02/QA0/Interface	QA0.XCBR.1

Table 106. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E06BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	gcb_f1	E02PIU	QA0Interface	XCBR

Table 107. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/06/BreakerFailure
- BreakerFailureLine.CBRExternTrip:hlx_Berlin/E/05/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/06	RBRF1.OpEx.general[ST]	Berlin/E/05/QA0/Interface	QA0.XCBR.1

Table 108. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E06BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	gcb_f1	E05PIU	QA0Interface	XCBR

Table 109. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/06/BreakerFailure
- BreakerFailureLine.BreakerFailureInit:hlx_Berlin/E/06/Trip

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Berlin/E/06	TripPTRC1.Tr.general[ST]	Berlin/E/06/BreakerFailure	RBRF.1

Table 110. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Tr.general[ST]	E06PIU	LD0.TripPTRC1.Tr.general[ST]	gcb_f1	E06BCU	BreakerFailure1	RBRF

Table 111. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Berlin/E/06/BreakerFailure
- BreakerFailureLine.CBRInternTrip:hlx_Berlin/E/06/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Internal	Berlin/E/06	RBRF1.OpIn.general[ST]	Berlin/E/06/QA0/Interface	QA0.XCBR.1

Table 112. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpIn.general[ST]	E06BCU	BreakerFailure1.RBRF1.OpIn.general[ST]	gcb_f1	E06PIU	LD0.LLN0	

Table 113. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/01/Trip
- Trip.Protection:hlx_Berlin/E/01/Distance

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
DIS Operate	Berlin/E/01	DISPTRC1.Op.general[ST]	Berlin/E/01/Trip	Trip.PTRC.1

Table 114. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E01BPU	LD0.DISPTRC1.Op.general[ST]	gcb_f1	E01PIU	LD0.LLN0	

Table 115. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/01/Trip
- Trip.Protection:hlx_Berlin/E/01/Overcurrent

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Berlin/E/01	PHPTOC1.Op.general[ST]	Berlin/E/01/Trip	Trip.PTRC.1

Table 116. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E01BUP	Overcurrent.PHPTOC1.Op.general[ST]	gcb01	E01PIU	LD0.LLN0	

Table 117. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/02/Trip
- Trip.Protection:hlx_Berlin/E/02/Differential

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Diff Operate	Berlin/E/02	PDIF1.Op.general[ST]	Berlin/E/02/Trip	Trip.PTRC.1

Table 118. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E02BPU	Differential.PDIF1.Op.general[ST]	gcb_f1	E02PIU	Trip.PTRC	

Table 119. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/02/Trip
- Trip.Protection:hlx_Berlin/E/02/Overcurrent

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Berlin/E/02	PHPTOC1.Op.general[ST]	Berlin/E/02/Trip	Trip.PTRC.1

Table 120. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E02BUP	Overcurrent.PHPTOC1.Op.general[ST]	gcb_f1	E02PIU	Trip.PTRC	

Table 121. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/05/Trip
- Trip.Protection:hlx_Berlin/E/05/Differential

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Diff Operate	Berlin/E/05	PDIF1.Op.general[ST]	Berlin/E/05/Trip	Trip.PTRC.1

Table 122. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E05BPU	Differential.PDIF1.Op.general[ST]	gcb_f1	E05PIU	Trip.PTRC	

Table 123. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/05/Trip
- Trip.Protection:hlx_Berlin/E/05/Overcurrent

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Berlin/E/05	PHPTOC1.Op.general[ST]	Berlin/E/05/Trip	Trip.PTRC.1

Table 124. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E05BUP	Overcurrent.PHPTOC1.Op.general[ST]	gcb_f1	E05PIU	Trip.PTRC	

Table 125. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/03/Trip
- Trip.Protection:hlx_Berlin/E/03/Distance

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
DIS Operate	Berlin/E/03	DISPTRC1.Op.general[ST]	Berlin/E/03/Trip	Trip.PTRC.1

Table 126. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E03BPU	LD0.DISPTRC1.Op.general[ST]	gcb_f1	E03PIU	LD0.LLN0	

Table 127. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/03/Trip
- Trip.Protection:hlx_Berlin/E/03/Overcurrent

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Berlin/E/03	PHPTOC1.Op.general[ST]	Berlin/E/03/Trip	Trip.PTRC.1

Table 128. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E03BUP	Overcurrent.PHPTOC1.Op.general[ST]	gcb01	E03PIU	LD0.LLN0	

Table 129. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/04/Trip
- Trip.Protection:hlx_Berlin/E/04/Distance

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
DIS Operate	Berlin/E/04	DISPTRC1.Op.general[ST]	Berlin/E/04/Trip	Trip.PTRC.1

Table 130. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E04BPU	LD0.DISPTRC1.Op.general[ST]	gcb_f1	E04PIU	LD0.LLN0	

Table 131. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/04/Trip
- Trip.Protection:hlx_Berlin/E/04/Overcurrent

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Berlin/E/04	PHPTOC1.Op.general[ST]	Berlin/E/04/Trip	Trip.PTRC.1

Table 132. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E04BUP	Overcurrent.PHPTOC1.Op.general[ST]	gcb01	E04PIU	LD0.LLN0	

Table 133. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/06/Trip
- Trip.Protection:hlx_Berlin/E/06/Distance

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
DIS Operate	Berlin/E/06	DISPTRC1.Op.general[ST]	Berlin/E/06/Trip	Trip.PTRC.1

Table 134. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E06BPU	LD0.DISPTRC1.Op.general[ST]	gcb_f1	E06PIU	LD0.LLN0	

Table 135. GOOSE Message :Fast GOOSE Priority: High

Instance details

- Trip.Trip:hlx_Berlin/E/06/Trip
- Trip.Protection:hlx_Berlin/E/06/Overcurrent

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Berlin/E/06	PHPTOC1.Op.general[ST]	Berlin/E/06/Trip	Trip.PTRC.1

Table 136. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E06BUP	Overcurrent.PHPTOC1.Op.general[ST]	gcb01	E06PIU	LD0.LLN0	

Table 137. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRExtern:hlx_Berlin/E/01/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/02/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/02	RBRF1.OpEx.general[ST]	Berlin/E/01/QA0/Interface	QA0.XCBR.1

Table 138. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E02BCU	BreakerFailure.RBRF1.OpEx.general[ST]	STCB01	E01PIU	LD0.LLN0	

Table 139. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/02/BreakerFailure
- BreakerFailureTransformer.Init:hlx_Berlin/E/02/Trip

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Berlin/E/02	TripPTRC1.Tr.general[ST]	Berlin/E/02/BreakerFailure	RBRF.1

Table 140. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Tr.general[ST]	E02PIU	Trip.TripPTRC1.Tr.general[ST]	gcb_f1	E02BCU	null.null	

Table 141. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRIntern:hlx_Berlin/E/02/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/02/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Internal	Berlin/E/02	RBRF1.OpIn.general[ST]	Berlin/E/02/QA0/Interface	QA0.XCBR.1

Table 142. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpIn.general[ST]	E02BCU	BreakerFailure.RBRF1.OpIn.general[ST]	OpCB01	E02PIU	QA0Interface	XCBR

Table 143. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRExtern:hlx_Berlin/E/01/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/05/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/05	RBRF1.OpEx.general[ST]	Berlin/E/01/QA0/Interface	QA0.XCBR.1

Table 144. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E05BCU	BreakerFailure.RBRF1.OpEx.general[ST]	OpCB01	E01PIU	LD0.LLN0	

Table 145. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/05/BreakerFailure
- BreakerFailureTransformer.Init:hlx_Berlin/E/05/Trip

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Berlin/E/05	TripPTRC1.Tr.general[ST]	Berlin/E/05/BreakerFailure	RBRF.1

Table 146. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Tr.general[ST]	E05PIU	Trip.TripPTRC1.Tr.general[ST]	gcb_f1	E05BCU	null.null	

Table 147. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRIntern:hlx_Berlin/E/05/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/05/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Internal	Berlin/E/05	RBRF1.OpIn.general[ST]	Berlin/E/05/QA0/Interface	QA0.XCBR.1

Table 148. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpIn.general[ST]	E05BCU	BreakerFailure.RBRF1.OpIn.general[ST]	OpCB01	E05PIU	QA0Interface	XCBR

Table 149. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRExtern:hlx_Berlin/E/03/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/02/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/02	RBRF1.OpEx.general[ST]	Berlin/E/03/QA0/Interface	QA0.XCBR.1

Table 150. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E02BCU	BreakerFailure.RBRF1.OpEx.general[ST]	ST0CB01	E03PIU	LD0.LLN0	

Table 151. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRExtern:hlx_Berlin/E/03/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/05/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/05	RBRF1.OpEx.general[ST]	Berlin/E/03/QA0/Interface	QA0.XCBR.1

Table 152. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E05BCU	BreakerFailure.RBRF1.OpEx.general[ST]	ST0CB01	E03PIU	LD0.LLN0	

Table 153. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRExtern:hlx_Berlin/E/04/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/02/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/02	RBRF1.OpEx.general[ST]	Berlin/E/04/QA0/Interface	QA0.XCBR.1

Table 154. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E02BCU	BreakerFailure.RBRF1.OpEx.general[ST]	ST0CB01	E04PIU	LD0.LLN0	

Table 155. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRExtern:hlx_Berlin/E/04/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/05/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/05	RBRF1.OpEx.general[ST]	Berlin/E/04/QA0/Interface	QA0.XCBR.1

Table 156. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E05BCU	BreakerFailure.RBRF1.OpEx.general[ST]	ST0CB01	E04PIU	LD0.LLN0	

Table 157. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRExtern:hlx_Berlin/E/06/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/02/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/02	RBRF1.OpEx.general[ST]	Berlin/E/06/QA0/Interface	QA0.XCBR.1

Table 158. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E02BCU	BreakerFailure.RBRF1.OpEx.general[ST]	ST0CB01	E06PIU	LD0.LLN0	

Table 159. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTransformer.CBRExtern:hlx_Berlin/E/06/QA0/Interface
- BreakerFailureTransformer.TransformerBreakerFailure:hlx_Berlin/E/05/BreakerFailure

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Berlin/E/05	RBRF1.OpEx.general[ST]	Berlin/E/06/QA0/Interface	QA0.XCBR.1

Table 160. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E05BCU	BreakerFailure.RBRF1.OpEx.general[ST]	ST0CB01	E06PIU	LD0.LLN0	

Table 161. GOOSE Message :Fast GOOSE Priority: High

3.3. Voltage Level Berlin/E

110kV

Voltage Level description is missing.

Bay Name	Description	IEDs
BB	Busbar-	-
01	Busbar-	-
02	-	BCU: E02BCU C60, BPU: E02BPU 7UT85, BUP: E02BUP 7SJ85, PIU: E02PIU 6MU8
05	-	BCU: E05BCU C60, BPU: E05BPU 7UT85, BUP: E05BUP 7SJ85, PIU: E05PIU 6MU8
03	Busbar-	-
04	Busbar-	-
06	Busbar-	-

3.3.1. Bus Bar Berlin/E/BB

Bay description is missing. Please add a short description of this bay at the Single Line diagram.

3.3.2. Bay Berlin/E/01

Bay description is missing. Please add a short description of this bay at the Single Line diagram.

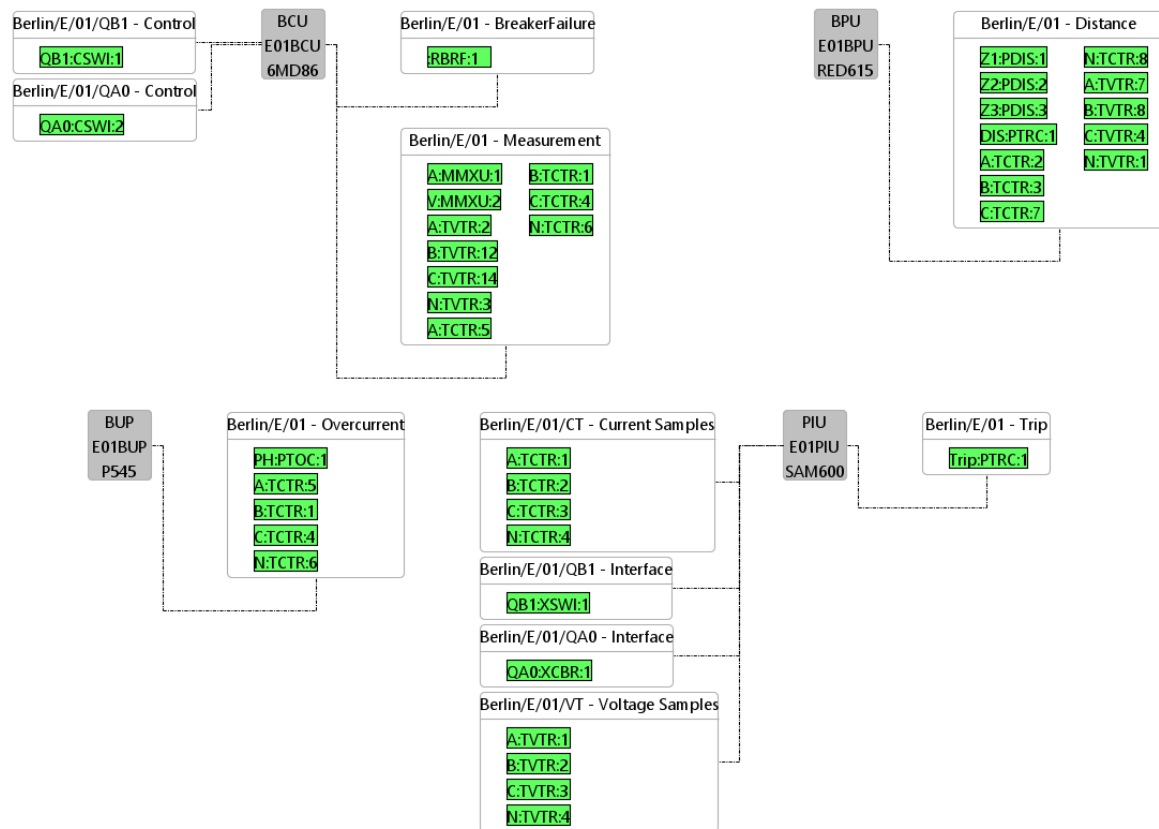


Figure 2. Bay Function Diagram of bay: 01

Role	Name	Type	Description
BCU	E01BCU	6MD86	-

Table 162. Specification for BCU

Role	Name	Type	Description
BPU	E01BPU	RED615	-

Table 163. Specification for BPU

Role	Name	Type	Description
BUP	E01BUP	P545	-

Table 164. Specification for BUP

Role	Name	Type	Description
PIU	E01PIU	SAM600	-

Table 165. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measu remen t	I1	Berlin/E/01/ AMMXU1.A.phsA.cVal.mag.f[MX]	E01BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I2	Berlin/E/01/ AMMXU1.A.phsB.cVal.mag.f[MX]	E01BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I3	Berlin/E/01/ AMMXU1.A.phsC.cVal.mag.f[MX]	E01BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I Neut	Berlin/E/01/ AMMXU1.A.neut.cVal.mag.f[MX]	E01BCUMeasurement/ A.MMXU.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Measurement	U1	Berlin/E/01/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E01BCUMeasurement/ V.MMXU.2	No Link
Measurement	U2	Berlin/E/01/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E01BCUMeasurement/ V.MMXU.2	No Link
Measurement	U3	Berlin/E/01/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E01BCUMeasurement/ V.MMXU.2	No Link
Measurement	U Neut	Berlin/E/01/ VMMXU2.PhV.net.cVal.mag.f[MX]	E01BCUMeasurement/ V.MMXU.2	No Link
Measurement	U1 sv	Berlin/E/01/ ATVTR2.VolSv.instMag.i[MX]	E01BCUMeasurement/ A.TVTR.2	No Link
Measurement	U2 sv	Berlin/E/01/ BTVTR12.VolSv.instMag.i[MX]	E01BCUMeasurement/ B.TVTR.12	No Link
Measurement	U3 sv	Berlin/E/01/ CTVTR14.VolSv.instMag.i[MX]	E01BCUMeasurement/ C.TVTR.14	No Link
Measurement	U Neut sv	Berlin/E/01/ NTVTR3.VolSv.instMag.i[MX]	E01BCUMeasurement/ N.TVTR.3	No Link
Measurement	I1 sv	Berlin/E/01/ ATCTR5.AmpSv.instMag.i[MX]	E01BCUMeasurement/ A.TCTR.5	No Link
Measurement	I2 sv	Berlin/E/01/ BTCTR1.AmpSv.instMag.f[MX]	E01BCUMeasurement/ B.TCTR.1	No Link
Measurement	I3 sv	Berlin/E/01/ CTCTR4.AmpSv.instMag.i[MX]	E01BCUMeasurement/ C.TCTR.4	No Link
Measurement	I Neut sv	Berlin/E/01/ NTCTR6.AmpSv.instMag.i[MX]	E01BCUMeasurement/ N.TCTR.6	No Link
Distance	Start Z1	Berlin/E/01/Z1PDIS1.Str.general[ST]	E01BPULD0/Z1.PDIS.1	No Link
Distance	Operate Z1	Berlin/E/01/Z1PDIS1.Op.general[ST]	E01BPULD0/Z1.PDIS.1	No Link
Distance	Start Z2	Berlin/E/01/Z2PDIS2.Str.general[ST]	E01BPULD0/Z2.PDIS.2	No Link
Distance	Operate Z2	Berlin/E/01/Z2PDIS2.Op.general[ST]	E01BPULD0/Z2.PDIS.2	No Link
Distance	Start Z3	Berlin/E/01/Z3PDIS3.Str.general[ST]	E01BPULD0/Z3.PDIS.3	No Link
Distance	Operate Z3	Berlin/E/01/Z3PDIS3.Op.general[ST]	E01BPULD0/Z3.PDIS.3	No Link
Distance	DIS Operate	Berlin/E/01/DISPTRC1.Op.general[ST]	E01BPULD0/DIS.PTRC.1	No Link
Distance	I1 sv	Berlin/E/01/ ATCTR2.AmpSv.instMag.i[MX]	E01BPULD0/A.TCTR.2	No Link
Distance	I2 sv	Berlin/E/01/ BTCTR3.AmpSv.instMag.f[MX]	E01BPULD0/B.TCTR.3	No Link
Distance	I3 sv	Berlin/E/01/ CTCTR7.AmpSv.instMag.i[MX]	E01BPULD0/C.TCTR.7	No Link
Distance	I Neut sv	Berlin/E/01/ NTCTR8.AmpSv.instMag.i[MX]	E01BPULD0/N.TCTR.8	No Link
Distance	U1 sv	Berlin/E/01/ ATVTR7.VolSv.instMag.i[MX]	E01BPULD0/A.TVTR.7	No Link
Distance	U2 sv	Berlin/E/01/ BTVTR8.VolSv.instMag.i[MX]	E01BPULD0/B.TVTR.8	No Link
Distance	U3 sv	Berlin/E/01/ CTVTR4.VolSv.instMag.i[MX]	E01BPULD0/C.TVTR.4	No Link
Distance	U Neut sv	Berlin/E/01/ NTVTR1.VolSv.instMag.i[MX]	E01BPULD0/N.TVTR.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Overcurrent	OC Start	Berlin/E/01/PHPTOC1.Str.general[ST]	E01BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Berlin/E/01/PHPTOC1.Op.general[ST]	E01BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	I1 sv	Berlin/E/01/ ATCTR5.AmpSv.instMag.i[MX]	E01BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Berlin/E/01/ BTCTR1.AmpSv.instMag.f[MX]	E01BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Berlin/E/01/ CTCTR4.AmpSv.instMag.i[MX]	E01BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Berlin/E/01/ NTCTR6.AmpSv.instMag.i[MX]	E01BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Berlin/E/01/TripPTRC1.Tr.general[ST]	E01PIULD0/Trip.PTRC.1	No Link
BreakerFailure	BF Start	Berlin/E/01/RBRF1.Str.general[ST]	E01BCUBreakerFailure1/ RBRF.1	No Link
BreakerFailure	Operate External	Berlin/E/01/RBRF1.OpEx.general[ST]	E01BCUBreakerFailure1/ RBRF.1	No Link
BreakerFailure	Operate Internal	Berlin/E/01/RBRF1.OpIn.general[ST]	E01BCUBreakerFailure1/ RBRF.1	No Link
Interface	Local Operation	Berlin/E/01/QB1/ QB1XSWI1.Loc.stVal[ST]	E01PIUQB1Interface/ QB1.XSWI.1	No Link
Interface	Switch Position	Berlin/E/01/QB1/ QB1XSWI1.Pos.stVal[ST]	E01PIUQB1Interface/ QB1.XSWI.1	No Link
Control	Switch Command	Berlin/E/01/QB1/ QB1CSWI1.Pos.Oper.ctlVal[CO]	E01BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Open	Berlin/E/01/QB1/ QB1CSWI1.OpOpn.general[ST]	E01BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Close	Berlin/E/01/QB1/ QB1CSWI1.OpCls.general[ST]	E01BCUQB1Control/ QB1.CSWI.1	No Link
Control	QB1 Position	Berlin/E/01/QB1/ QB1CSWI1.Pos.stVal[ST]	E01BCUQB1Control/ QB1.CSWI.1	No Link
Interface	Local Operation	Berlin/E/01/QA0/ QA0XCBR1.Loc.stVal[ST]	E01PIUQA0Interface/ QA0.XCBR.1	No Link
Interface	Switch Position	Berlin/E/01/QA0/ QA0XCBR1.Pos.stVal[ST]	E01PIUQA0Interface/ QA0.XCBR.1	No Link
Control	Switch Command	Berlin/E/01/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E01BCUQA0Control/ QA0.CSWI.2	No Link
Control	Operate Open	Berlin/E/01/QA0/ QA0CSWI2.OpOpn.general[ST]	E01BCUQA0Control/ QA0.CSWI.2	No Link
Control	Operate Close	Berlin/E/01/QA0/ QA0CSWI2.OpCls.general[ST]	E01BCUQA0Control/ QA0.CSWI.2	No Link
Control	QA0 Position	Berlin/E/01/QA0/ QA0CSWI2.Pos.stVal[ST]	E01BCUQA0Control/ QA0.CSWI.2	No Link
L1	I1 sv	Berlin/E/01/CT/ ATCTR1.AmpSv.instMag.i[MX]	E01PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Berlin/E/01/CT/ BTCTR2.AmpSv.instMag.f[MX]	E01PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Berlin/E/01/CT/ CTCTR3.AmpSv.instMag.i[MX]	E01PIUCTCT/C.TCTR.3	No Link

Function	Process Name	Functional Name	Logical Device	Description
Neut	I Neut sv	Berlin/E/01/CT/ NTCTR4.AmpSv.instMag.i[MX]	E01PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Berlin/E/01/VT/ ATVTR1.VolSv.instMag.i[MX]	E01PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Berlin/E/01/VT/ BTVTR2.VolSv.instMag.i[MX]	E01PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Berlin/E/01/VT/ CTVTR3.VolSv.instMag.i[MX]	E01PIUVTVT/C.TVTR.3	No Link
Neut	U Neut sv	Berlin/E/01/VT/ NTVTR4.VolSv.instMag.i[MX]	E01PIUVTVT/N.TVTR.4	No Link

Table 166. Signals of 01

3.3.3. Bay Berlin/E/02

Bay description is missing. Please add a short description of this bay at the Single Line diagram.

Role	Name	Type	Description
BCU	E02BCU	C60	-

Table 167. Specification for BCU

Role	Name	Type	Description
BPU	E02BPU	7UT85	-

Table 168. Specification for BPU

Role	Name	Type	Description
BUP	E02BUP	7SJ85	-

Table 169. Specification for BUP

Role	Name	Type	Description
PIU	E02PIU	6MU85	-

Table 170. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measu remen t	I1	Berlin/E/02/ AMMXU1.A.phsA.cVal.mag.f[MX]	E02BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I2	Berlin/E/02/ AMMXU1.A.phsB.cVal.mag.f[MX]	E02BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I3	Berlin/E/02/ AMMXU1.A.phsC.cVal.mag.f[MX]	E02BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I Neut	Berlin/E/02/ AMMXU1.A.neut.cVal.mag.f[MX]	E02BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	U1	Berlin/E/02/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E02BCUMeasurement/ V.MMXU.2	No Link
Measu remen t	U2	Berlin/E/02/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E02BCUMeasurement/ V.MMXU.2	No Link
Measu remen t	U3	Berlin/E/02/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E02BCUMeasurement/ V.MMXU.2	No Link
Measu remen t	U Neut	Berlin/E/02/ VMMXU2.PhV.net.cVal.mag.f[MX]	E02BCUMeasurement/ V.MMXU.2	No Link
Measu remen t	U1 sv	Berlin/E/02/ ATVTR2.VolSv.instMag.i[MX]	E02BCUMeasurement/ A.TVTR.2	No Link
Measu remen t	U2 sv	Berlin/E/02/ BTVTR12.VolSv.instMag.i[MX]	E02BCUMeasurement/ B.TVTR.12	No Link

Function	Process Name	Functional Name	Logical Device	Description
Measurement	U3 sv	Berlin/E/02/CTVTR14.VolSv.instMag.i[MX]	E02BCUMeasurement/C.TVTR.14	No Link
Measurement	U Neut sv	Berlin/E/02/NTVTR3.VolSv.instMag.i[MX]	E02BCUMeasurement/N.TVTR.3	No Link
Measurement	I1 sv	Berlin/E/02/ATCTR5.AmpSv.instMag.i[MX]	E02BCUMeasurement/A.TCTR.5	No Link
Measurement	I2 sv	Berlin/E/02/BTCTR1.AmpSv.instMag.f[MX]	E02BCUMeasurement/B.TCTR.1	No Link
Measurement	I3 sv	Berlin/E/02/CTCTR4.AmpSv.instMag.i[MX]	E02BCUMeasurement/C.TCTR.4	No Link
Measurement	I Neut sv	Berlin/E/02/NTCTR6.AmpSv.instMag.i[MX]	E02BCUMeasurement/N.TCTR.6	No Link
Differential	Diff Operate	Berlin/E/02/PDIF1.Op.general[ST]	E02BPUDifferential/PDIF.1	No Link
Differential	I1 sv	Berlin/E/02/ATCTR2.AmpSv.instMag.i[MX]	E02BPUDifferential/A.TCTR.2	No Link
Differential	I2 sv	Berlin/E/02/BTCTR3.AmpSv.instMag.f[MX]	E02BPUDifferential/B.TCTR.3	No Link
Differential	I3 sv	Berlin/E/02/CTCTR1.AmpSv.instMag.i[MX]	E02BPUDifferential/C.TCTR.1	No Link
Differential	I Neut sv	Berlin/E/02/NTCTR4.AmpSv.instMag.i[MX]	E02BPUDifferential/N.TCTR.4	No Link
Overcurrent	OC Start	Berlin/E/02/PHPTOC1.Str.general[ST]	E02BUPOvercurrent/PH.PTOC.1	No Link
Overcurrent	OC Operate	Berlin/E/02/PHPTOC1.Op.general[ST]	E02BUPOvercurrent/PH.PTOC.1	No Link
Overcurrent	I1 sv	Berlin/E/02/ATCTR5.AmpSv.instMag.i[MX]	E02BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Berlin/E/02/BTCTR1.AmpSv.instMag.f[MX]	E02BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Berlin/E/02/CTCTR4.AmpSv.instMag.i[MX]	E02BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Berlin/E/02/NTCTR6.AmpSv.instMag.i[MX]	E02BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Berlin/E/02/TripPTRC1.Tr.general[ST]	E02PIUTrip/Trip.PTRC.1	No Link
Breaker Failure	BF Start	Berlin/E/02/RBRF1.Str.general[ST]	E02BCUBreakerFailure/RBRF.1	No Link
Breaker Failure	Operate External	Berlin/E/02/RBRF1.OpEx.general[ST]	E02BCUBreakerFailure/RBRF.1	No Link
Breaker Failure	Operate Internal	Berlin/E/02/RBRF1.OpIn.general[ST]	E02BCUBreakerFailure/RBRF.1	No Link
Interface	Local Operation	Berlin/E/02/QB1/QB1XSWI1.Loc.stVal[ST]	E02PIUQB1Interface/QB1.XSWI.1	No Link
Interface	Switch Position	Berlin/E/02/QB1/QB1XSWI1.Pos.stVal[ST]	E02PIUQB1Interface/QB1.XSWI.1	No Link
Control	Switch Command	Berlin/E/02/QB1/QB1CSWI1.Pos.Oper.ctlVal[CO]	E02BCUQB1Control/QB1.CSWI.1	No Link
Control	Operate Open	Berlin/E/02/QB1/QB1CSWI1.OpOpn.general[ST]	E02BCUQB1Control/QB1.CSWI.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Contr ol	Operate Close	Berlin/E/02/QB1/ QB1CSWI1.OpCls.general[ST]	E02BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	QB1 Position	Berlin/E/02/QB1/ QB1CSWI1.Pos.stVal[ST]	E02BCUQB1Control/ QB1.CSWI.1	No Link
Inter face	Local Operation	Berlin/E/02/QA0/ QA0XCBR1.Loc.stVal[ST]	E02PIUQA0Interface/ QA0.XCBR.1	No Link
Inter face	Switch Position	Berlin/E/02/QA0/ QA0XCBR1.Pos.stVal[ST]	E02PIUQA0Interface/ QA0.XCBR.1	No Link
Contr ol	Switch Command	Berlin/E/02/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E02BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	Operate Open	Berlin/E/02/QA0/ QA0CSWI2.OpOpn.general[ST]	E02BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	Operate Close	Berlin/E/02/QA0/ QA0CSWI2.OpCls.general[ST]	E02BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	QA0 Position	Berlin/E/02/QA0/ QA0CSWI2.Pos.stVal[ST]	E02BCUQA0Control/ QA0.CSWI.2	No Link
L1	U1 sv	Berlin/E/02/VT/ ATVTR1.VolSv.instMag.i[MX]	E02PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Berlin/E/02/VT/ BTVTR2.VolSv.instMag.i[MX]	E02PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Berlin/E/02/VT/ CTVTR3.VolSv.instMag.i[MX]	E02PIUVTVT/C.TVTR.3	No Link
Neut	U Neut sv	Berlin/E/02/VT/ NTVTR4.VolSv.instMag.i[MX]	E02PIUVTVT/N.TVTR.4	No Link
L1	I1 sv	Berlin/E/02/CT/ ATCTR1.AmpSv.instMag.i[MX]	E02PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Berlin/E/02/CT/ BTCTR2.AmpSv.instMag.f[MX]	E02PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Berlin/E/02/CT/ CTCTR3.AmpSv.instMag.i[MX]	E02PIUCTCT/C.TCTR.3	No Link
Neut	I Neut sv	Berlin/E/02/CT/ NTCTR4.AmpSv.instMag.i[MX]	E02PIUCTCT/N.TCTR.4	No Link

Table 171. Signals of 02

3.3.4. Bay Berlin/E/05

Bay description is missing. Please add a short description of this bay at the Single Line diagram.

Role	Name	Type	Description
BCU	E05BCU	C60	-

Table 172. Specification for BCU

Role	Name	Type	Description
BPU	E05BPU	7UT85	-

Table 173. Specification for BPU

Role	Name	Type	Description
BUP	E05BUP	7SJ85	-

Table 174. Specification for BUP

Role	Name	Type	Description
PIU	E05PIU	6MU85	-

Table 175. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measur ement	I1	Berlin/E/05/ AMMXU1.A.phsA.cVal.mag.f[MX]	E05BCUMeasurement/ A.MMXU.1	No Link
Measur ement	I2	Berlin/E/05/ AMMXU1.A.phsB.cVal.mag.f[MX]	E05BCUMeasurement/ A.MMXU.1	No Link
Measur ement	I3	Berlin/E/05/ AMMXU1.A.phsC.cVal.mag.f[MX]	E05BCUMeasurement/ A.MMXU.1	No Link
Measur ement	I Neut	Berlin/E/05/ AMMXU1.A.neut.cVal.mag.f[MX]	E05BCUMeasurement/ A.MMXU.1	No Link
Measur ement	U1	Berlin/E/05/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E05BCUMeasurement/ V.MMXU.2	No Link
Measur ement	U2	Berlin/E/05/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E05BCUMeasurement/ V.MMXU.2	No Link
Measur ement	U3	Berlin/E/05/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E05BCUMeasurement/ V.MMXU.2	No Link
Measur ement	U Neut	Berlin/E/05/ VMMXU2.PhV.net.cVal.mag.f[MX]	E05BCUMeasurement/ V.MMXU.2	No Link
Measur ement	U1 sv	Berlin/E/05/ ATVTR2.VolSv.instMag.i[MX]	E05BCUMeasurement/ A.TVTR.2	No Link
Measur ement	U2 sv	Berlin/E/05/ BTVTR12.VolSv.instMag.i[MX]	E05BCUMeasurement/ B.TVTR.12	No Link
Measur ement	U3 sv	Berlin/E/05/ CTVTR14.VolSv.instMag.i[MX]	E05BCUMeasurement/ C.TVTR.14	No Link
Measur ement	U Neut sv	Berlin/E/05/ NTVTR3.VolSv.instMag.i[MX]	E05BCUMeasurement/ N.TVTR.3	No Link
Measur ement	I1 sv	Berlin/E/05/ ATCTR5.AmpSv.instMag.i[MX]	E05BCUMeasurement/ A.TCTR.5	No Link
Measur ement	I2 sv	Berlin/E/05/ BTCTR1.AmpSv.instMag.f[MX]	E05BCUMeasurement/ B.TCTR.1	No Link
Measur ement	I3 sv	Berlin/E/05/ CTCTR4.AmpSv.instMag.i[MX]	E05BCUMeasurement/ C.TCTR.4	No Link
Measur ement	I Neut sv	Berlin/E/05/ NTCTR6.AmpSv.instMag.i[MX]	E05BCUMeasurement/ N.TCTR.6	No Link
Differen tial	Diff Operate	Berlin/E/05/PDIF1.Op.general[ST]	E05BPUDifferential/PDIF.1	No Link
Differen tial	I1 sv	Berlin/E/05/ ATCTR2.AmpSv.instMag.i[MX]	E05BPUDifferential/A.TCTR.2	No Link
Differen tial	I2 sv	Berlin/E/05/ BTCTR3.AmpSv.instMag.f[MX]	E05BPUDifferential/B.TCTR.3	No Link
Differen tial	I3 sv	Berlin/E/05/ CTCTR1.AmpSv.instMag.i[MX]	E05BPUDifferential/C.TCTR.1	No Link
Differen tial	I Neut sv	Berlin/E/05/ NTCTR4.AmpSv.instMag.i[MX]	E05BPUDifferential/N.TCTR.4	No Link
Overcurr ent	OC Start	Berlin/E/05/PHPTOC1.Str.general[ST]	E05BUPOvercurrent/ PH.PTOC.1	No Link
Overcurr ent	OC Operate	Berlin/E/05/PHPTOC1.Op.general[ST]	E05BUPOvercurrent/ PH.PTOC.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Overcurrent	I1 sv	Berlin/E/05/ATCTR5.AmpSv.instMag.i[MX]	E05BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Berlin/E/05/BTCTR1.AmpSv.instMag.f[MX]	E05BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Berlin/E/05/CTCTR4.AmpSv.instMag.i[MX]	E05BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Berlin/E/05/NTCTR6.AmpSv.instMag.i[MX]	E05BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Berlin/E/05/TripPTRC1.Tr.general[ST]	E05PIUTrip/Trip.PTRC.1	No Link
BreakerFailure	BF Start	Berlin/E/05/RBRF1.Str.general[ST]	E05BCUBreakerFailure/RBRF.1	No Link
BreakerFailure	Operate External	Berlin/E/05/RBRF1.OpEx.general[ST]	E05BCUBreakerFailure/RBRF.1	No Link
BreakerFailure	Operate Internal	Berlin/E/05/RBRF1.OpIn.general[ST]	E05BCUBreakerFailure/RBRF.1	No Link
Interface	Local Operation	Berlin/E/05/QB1/QB1XSWI1.Loc.stVal[ST]	E05PIUQB1Interface/QB1.XSWI.1	No Link
Interface	Switch Position	Berlin/E/05/QB1/QB1XSWI1.Pos.stVal[ST]	E05PIUQB1Interface/QB1.XSWI.1	No Link
Control	Switch Command	Berlin/E/05/QB1/QB1CSWI1.Pos.Oper.ctlVal[CO]	E05BCUQB1Control/QB1.CSWI.1	No Link
Control	Operate Open	Berlin/E/05/QB1/QB1CSWI1.OpOpn.general[ST]	E05BCUQB1Control/QB1.CSWI.1	No Link
Control	Operate Close	Berlin/E/05/QB1/QB1CSWI1.OpCls.general[ST]	E05BCUQB1Control/QB1.CSWI.1	No Link
Control	QB1 Position	Berlin/E/05/QB1/QB1CSWI1.Pos.stVal[ST]	E05BCUQB1Control/QB1.CSWI.1	No Link
Interface	Local Operation	Berlin/E/05/QA0/QA0XCBR1.Loc.stVal[ST]	E05PIUQA0Interface/QA0.XCBR.1	No Link
Interface	Switch Position	Berlin/E/05/QA0/QA0XCBR1.Pos.stVal[ST]	E05PIUQA0Interface/QA0.XCBR.1	No Link
Control	Switch Command	Berlin/E/05/QA0/QA0CSWI2.Pos.Oper.ctlVal[CO]	E05BCUQA0Control/QA0.CSWI.2	No Link
Control	Operate Open	Berlin/E/05/QA0/QA0CSWI2.OpOpn.general[ST]	E05BCUQA0Control/QA0.CSWI.2	No Link
Control	Operate Close	Berlin/E/05/QA0/QA0CSWI2.OpCls.general[ST]	E05BCUQA0Control/QA0.CSWI.2	No Link
Control	QA0 Position	Berlin/E/05/QA0/QA0CSWI2.Pos.stVal[ST]	E05BCUQA0Control/QA0.CSWI.2	No Link
L1	U1 sv	Berlin/E/05/VT/ATVTR1.VolSv.instMag.i[MX]	E05PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Berlin/E/05/VT/BTVTR2.VolSv.instMag.i[MX]	E05PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Berlin/E/05/VT/CTVTR3.VolSv.instMag.i[MX]	E05PIUVTVT/C.TVTR.3	No Link
Neut	U Neut sv	Berlin/E/05/VT/NTVTR4.VolSv.instMag.i[MX]	E05PIUVTVT/N.TVTR.4	No Link
L1	I1 sv	Berlin/E/05/CT/ATCTR1.AmpSv.instMag.i[MX]	E05PIUCTCT/A.TCTR.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
L2	I2 sv	Berlin/E/05/CT/ BTCTR2.AmpSv.instMag.f[MX]	E05PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Berlin/E/05/CT/ CTCTR3.AmpSv.instMag.i[MX]	E05PIUCTCT/C.TCTR.3	No Link
Neut	I Neut sv	Berlin/E/05/CT/ NTCTR4.AmpSv.instMag.i[MX]	E05PIUCTCT/N.TCTR.4	No Link

Table 176. Signals of 05

3.3.5. Bay Berlin/E/03

Bay description is missing. Please add a short description of this bay at the Single Line diagram.

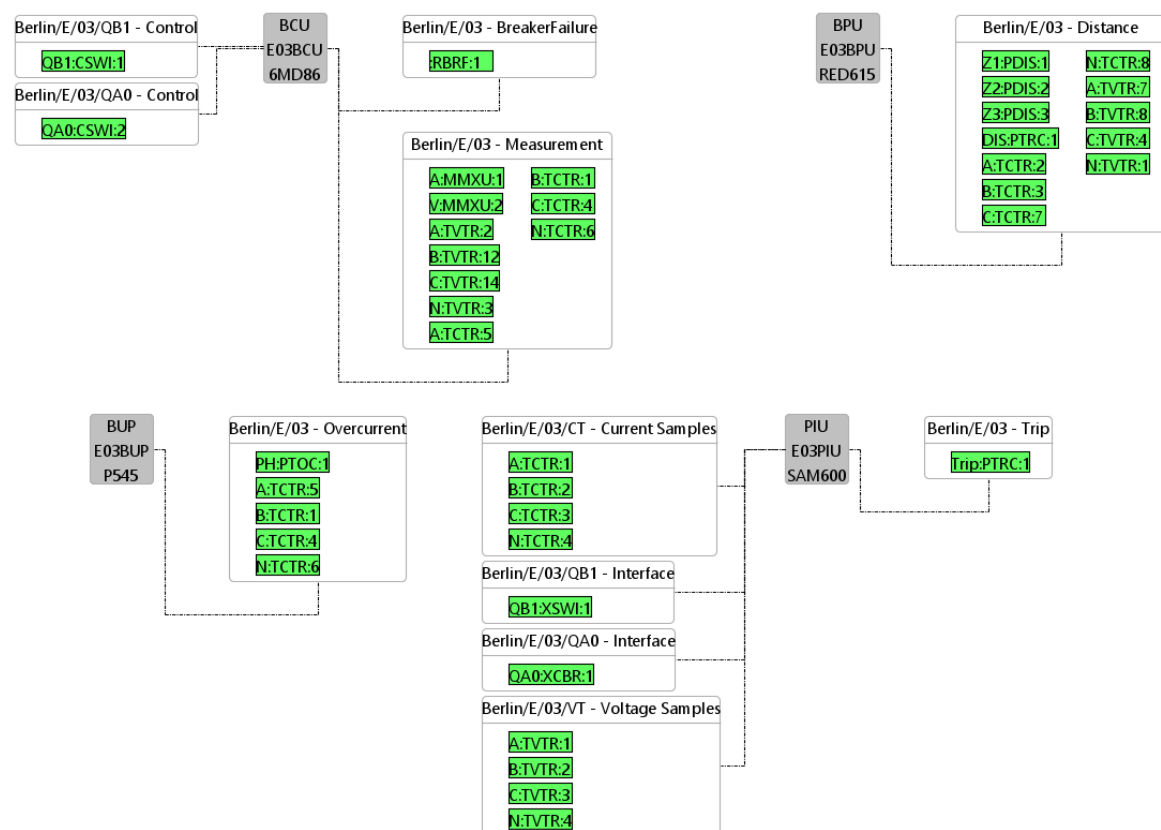


Figure 3. Bay Function Diagram of bay: 03

Role	Name	Type	Description
BCU	E03BCU	6MD86	-

Table 177. Specification for BCU

Role	Name	Type	Description
BPU	E03BPU	RED615	-

Table 178. Specification for BPU

Role	Name	Type	Description
BUP	E03BUP	P545	-

Table 179. Specification for BUP

Role	Name	Type	Description
PIU	E03PIU	SAM600	-

Table 180. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measur emen t	I1	Berlin/E/03/ AMMXU1.A.phsA.cVal.mag.f[MX]	E03BCUMeasurement/ A.MMXU.1	No Link
Measur emen t	I2	Berlin/E/03/ AMMXU1.A.phsB.cVal.mag.f[MX]	E03BCUMeasurement/ A.MMXU.1	No Link
Measur emen t	I3	Berlin/E/03/ AMMXU1.A.phsC.cVal.mag.f[MX]	E03BCUMeasurement/ A.MMXU.1	No Link
Measur emen t	I Neut	Berlin/E/03/ AMMXU1.A.neut.cVal.mag.f[MX]	E03BCUMeasurement/ A.MMXU.1	No Link
Measur emen t	U1	Berlin/E/03/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E03BCUMeasurement/ V.MMXU.2	No Link
Measur emen t	U2	Berlin/E/03/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E03BCUMeasurement/ V.MMXU.2	No Link
Measur emen t	U3	Berlin/E/03/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E03BCUMeasurement/ V.MMXU.2	No Link
Measur emen t	U Neut	Berlin/E/03/ VMMXU2.PhV.net.cVal.mag.f[MX]	E03BCUMeasurement/ V.MMXU.2	No Link
Measur emen t	U1 sv	Berlin/E/03/ ATVTR2.VolSv.instMag.i[MX]	E03BCUMeasurement/ A.TVTR.2	No Link
Measur emen t	U2 sv	Berlin/E/03/ BTVTR12.VolSv.instMag.i[MX]	E03BCUMeasurement/ B.TVTR.12	No Link
Measur emen t	U3 sv	Berlin/E/03/ CTVTR14.VolSv.instMag.i[MX]	E03BCUMeasurement/ C.TVTR.14	No Link
Measur emen t	U Neut sv	Berlin/E/03/ NTVTR3.VolSv.instMag.i[MX]	E03BCUMeasurement/ N.TVTR.3	No Link
Measur emen t	I1 sv	Berlin/E/03/ ATCTR5.AmpSv.instMag.i[MX]	E03BCUMeasurement/ A.TCTR.5	No Link
Measur emen t	I2 sv	Berlin/E/03/ BTCTR1.AmpSv.instMag.f[MX]	E03BCUMeasurement/ B.TCTR.1	No Link
Measur emen t	I3 sv	Berlin/E/03/ CTCTR4.AmpSv.instMag.i[MX]	E03BCUMeasurement/ C.TCTR.4	No Link
Measur emen t	I Neut sv	Berlin/E/03/ NTCTR6.AmpSv.instMag.i[MX]	E03BCUMeasurement/ N.TCTR.6	No Link
Dista nce	Start Z1	Berlin/E/03/Z1PDIS1.Str.general[ST]	E03BPULD0/Z1.PDIS.1	No Link
Dista nce	Operate Z1	Berlin/E/03/Z1PDIS1.Op.general[ST]	E03BPULD0/Z1.PDIS.1	No Link
Dista nce	Start Z2	Berlin/E/03/Z2PDIS2.Str.general[ST]	E03BPULD0/Z2.PDIS.2	No Link
Dista nce	Operate Z2	Berlin/E/03/Z2PDIS2.Op.general[ST]	E03BPULD0/Z2.PDIS.2	No Link
Dista nce	Start Z3	Berlin/E/03/Z3PDIS3.Str.general[ST]	E03BPULD0/Z3.PDIS.3	No Link
Dista nce	Operate Z3	Berlin/E/03/Z3PDIS3.Op.general[ST]	E03BPULD0/Z3.PDIS.3	No Link
Dista nce	DIS Operate	Berlin/E/03/DISPTRC1.Op.general[ST]	E03BPULD0/DIS.PTRC.1	No Link
Dista nce	I1 sv	Berlin/E/03/ ATCTR2.AmpSv.instMag.i[MX]	E03BPULD0/A.TCTR.2	No Link
Dista nce	I2 sv	Berlin/E/03/ BTCTR3.AmpSv.instMag.f[MX]	E03BPULD0/B.TCTR.3	No Link
Dista nce	I3 sv	Berlin/E/03/ CTCTR7.AmpSv.instMag.i[MX]	E03BPULD0/C.TCTR.7	No Link

Function	Process Name	Functional Name	Logical Device	Description
Dista nce	I Neut sv	Berlin/E/03/ NTCTR8.AmpSv.instMag.i[MX]	E03BPULD0/N.TCTR.8	No Link
Dista nce	U1 sv	Berlin/E/03/ ATVTR7.VolSv.instMag.i[MX]	E03BPULD0/A.TVTR.7	No Link
Dista nce	U2 sv	Berlin/E/03/ BTVTR8.VolSv.instMag.i[MX]	E03BPULD0/B.TVTR.8	No Link
Dista nce	U3 sv	Berlin/E/03/ CTVTR4.VolSv.instMag.i[MX]	E03BPULD0/C.TVTR.4	No Link
Dista nce	U Neut sv	Berlin/E/03/ NTVTR1.VolSv.instMag.i[MX]	E03BPULD0/N.TVTR.1	No Link
Overc urren t	OC Start	Berlin/E/03/PHPTOC1.Str.general[ST]	E03BUPOvercurrent/ PH.PTOC.1	No Link
Overc urren t	OC Operate	Berlin/E/03/PHPTOC1.Op.general[ST]	E03BUPOvercurrent/ PH.PTOC.1	No Link
Overc urren t	I1 sv	Berlin/E/03/ ATCTR5.AmpSv.instMag.i[MX]	E03BUPOvercurrent/A.TCTR.5	No Link
Overc urren t	I2 sv	Berlin/E/03/ BTCTR1.AmpSv.instMag.f[MX]	E03BUPOvercurrent/B.TCTR.1	No Link
Overc urren t	I3 sv	Berlin/E/03/ CTCTR4.AmpSv.instMag.i[MX]	E03BUPOvercurrent/C.TCTR.4	No Link
Overc urren t	I Neut sv	Berlin/E/03/ NTCTR6.AmpSv.instMag.i[MX]	E03BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Berlin/E/03/TripPTRC1.Tr.general[ST]	E03PIULD0/Trip.PTRC.1	No Link
Break erFai lure	BF Start	Berlin/E/03/RBRF1.Str.general[ST]	E03BCUBreakerFailure1/ RBRF.1	No Link
Break erFai lure	Operate External	Berlin/E/03/RBRF1.OpEx.general[ST]	E03BCUBreakerFailure1/ RBRF.1	No Link
Break erFai lure	Operate Internal	Berlin/E/03/RBRF1.OpIn.general[ST]	E03BCUBreakerFailure1/ RBRF.1	No Link
Inter face	Local Operation	Berlin/E/03/QB1/ QB1XSWI1.Loc.stVal[ST]	E03PIUQB1Interface/ QB1.XSWI.1	No Link
Inter face	Switch Position	Berlin/E/03/QB1/ QB1XSWI1.Pos.stVal[ST]	E03PIUQB1Interface/ QB1.XSWI.1	No Link
Contr ol	Switch Command	Berlin/E/03/QB1/ QB1CSWI1.Pos.Oper.ctlVal[CO]	E03BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	Operate Open	Berlin/E/03/QB1/ QB1CSWI1.OpOpn.general[ST]	E03BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	Operate Close	Berlin/E/03/QB1/ QB1CSWI1.OpCls.general[ST]	E03BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	QB1 Position	Berlin/E/03/QB1/ QB1CSWI1.Pos.stVal[ST]	E03BCUQB1Control/ QB1.CSWI.1	No Link
Inter face	Local Operation	Berlin/E/03/QA0/ QA0XCBR1.Loc.stVal[ST]	E03PIUQA0Interface/ QA0.XCBR.1	No Link
Inter face	Switch Position	Berlin/E/03/QA0/ QA0XCBR1.Pos.stVal[ST]	E03PIUQA0Interface/ QA0.XCBR.1	No Link
Contr ol	Switch Command	Berlin/E/03/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E03BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	Operate Open	Berlin/E/03/QA0/ QA0CSWI2.OpOpn.general[ST]	E03BCUQA0Control/ QA0.CSWI.2	No Link

Function	Process Name	Functional Name	Logical Device	Description
Contr ol	Operate Close	Berlin/E/03/QA0/ QA0CSWI2.OpCls.general[ST]	E03BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	QA0 Position	Berlin/E/03/QA0/ QA0CSWI2.Pos.stVal[ST]	E03BCUQA0Control/ QA0.CSWI.2	No Link
L1	I1 sv	Berlin/E/03/CT/ ATCTR1.AmpSv.instMag.i[MX]	E03PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Berlin/E/03/CT/ BTCTR2.AmpSv.instMag.f[MX]	E03PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Berlin/E/03/CT/ CTCTR3.AmpSv.instMag.i[MX]	E03PIUCTCT/C.TCTR.3	No Link
Neut	I Neut sv	Berlin/E/03/CT/ NTCTR4.AmpSv.instMag.i[MX]	E03PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Berlin/E/03/VT/ ATVTR1.VolSv.instMag.i[MX]	E03PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Berlin/E/03/VT/ BTVTR2.VolSv.instMag.i[MX]	E03PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Berlin/E/03/VT/ CTVTR3.VolSv.instMag.i[MX]	E03PIUVTVT/C.TVTR.3	No Link
Neut	U Neut sv	Berlin/E/03/VT/ NTVTR4.VolSv.instMag.i[MX]	E03PIUVTVT/N.TVTR.4	No Link

Table 181. Signals of 03

3.3.6. Bay Berlin/E/04

Bay description is missing. Please add a short description of this bay at the Single Line diagram.

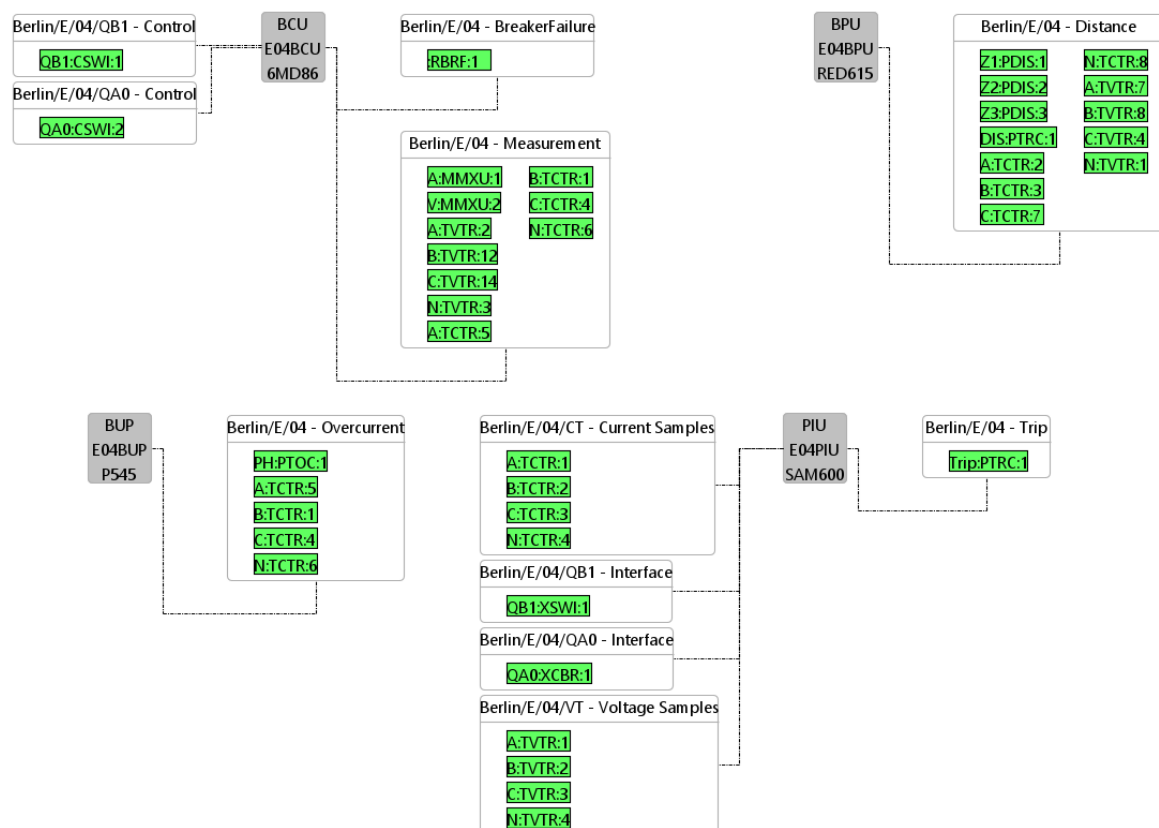


Figure 4. Bay Function Diagram of bay: 04

Role	Name	Type	Description
BCU	E04BCU	6MD86	-

Table 182. Specification for BCU

Role	Name	Type	Description
BPU	E04BPU	RED615	-

Table 183. Specification for BPU

Role	Name	Type	Description
BUP	E04BUP	P545	-

Table 184. Specification for BUP

Role	Name	Type	Description
PIU	E04PIU	SAM600	-

Table 185. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measurement	I1	Berlin/E/04/ AMMXU1.A.phsA.cVal.mag.f[MX]	E04BCUMeasurement/ A.MMXU.1	No Link
Measurement	I2	Berlin/E/04/ AMMXU1.A.phsB.cVal.mag.f[MX]	E04BCUMeasurement/ A.MMXU.1	No Link
Measurement	I3	Berlin/E/04/ AMMXU1.A.phsC.cVal.mag.f[MX]	E04BCUMeasurement/ A.MMXU.1	No Link
Measurement	I Neut	Berlin/E/04/ AMMXU1.A.neut.cVal.mag.f[MX]	E04BCUMeasurement/ A.MMXU.1	No Link
Measurement	U1	Berlin/E/04/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E04BCUMeasurement/ V.MMXU.2	No Link
Measurement	U2	Berlin/E/04/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E04BCUMeasurement/ V.MMXU.2	No Link
Measurement	U3	Berlin/E/04/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E04BCUMeasurement/ V.MMXU.2	No Link
Measurement	U Neut	Berlin/E/04/ VMMXU2.PhV.net.cVal.mag.f[MX]	E04BCUMeasurement/ V.MMXU.2	No Link
Measurement	U1 sv	Berlin/E/04/ ATVTR2.VolSv.instMag.i[MX]	E04BCUMeasurement/ A.TVTR.2	No Link
Measurement	U2 sv	Berlin/E/04/ BTVTR12.VolSv.instMag.i[MX]	E04BCUMeasurement/ B.TVTR.12	No Link
Measurement	U3 sv	Berlin/E/04/ CTVTR14.VolSv.instMag.i[MX]	E04BCUMeasurement/ C.TVTR.14	No Link
Measurement	U Neut sv	Berlin/E/04/ NTVTR3.VolSv.instMag.i[MX]	E04BCUMeasurement/ N.TVTR.3	No Link
Measurement	I1 sv	Berlin/E/04/ ATCTR5.AmpSv.instMag.i[MX]	E04BCUMeasurement/ A.TCTR.5	No Link
Measurement	I2 sv	Berlin/E/04/ BTCTR1.AmpSv.instMag.f[MX]	E04BCUMeasurement/ B.TCTR.1	No Link
Measurement	I3 sv	Berlin/E/04/ CTCTR4.AmpSv.instMag.i[MX]	E04BCUMeasurement/ C.TCTR.4	No Link
Measurement	I Neut sv	Berlin/E/04/ NTCTR6.AmpSv.instMag.i[MX]	E04BCUMeasurement/ N.TCTR.6	No Link
Distance	Start Z1	Berlin/E/04/Z1PDIS1.Str.general[ST]	E04BPULD0/Z1.PDIS.1	No Link
Distance	Operate Z1	Berlin/E/04/Z1PDIS1.Op.general[ST]	E04BPULD0/Z1.PDIS.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Distance	Start Z2	Berlin/E/04/Z2PDIS2.Str.general[ST]	E04BPULD0/Z2.PDIS.2	No Link
Distance	Operate Z2	Berlin/E/04/Z2PDIS2.Op.general[ST]	E04BPULD0/Z2.PDIS.2	No Link
Distance	Start Z3	Berlin/E/04/Z3PDIS3.Str.general[ST]	E04BPULD0/Z3.PDIS.3	No Link
Distance	Operate Z3	Berlin/E/04/Z3PDIS3.Op.general[ST]	E04BPULD0/Z3.PDIS.3	No Link
Distance	DIS Operate	Berlin/E/04/DISPTRC1.Op.general[ST]	E04BPULD0/DIS.PTRC.1	No Link
Distance	I1 sv	Berlin/E/04/ ATCTR2.AmpSv.instMag.i[MX]	E04BPULD0/A.TCTR.2	No Link
Distance	I2 sv	Berlin/E/04/ BTCTR3.AmpSv.instMag.f[MX]	E04BPULD0/B.TCTR.3	No Link
Distance	I3 sv	Berlin/E/04/ CTCTR7.AmpSv.instMag.i[MX]	E04BPULD0/C.TCTR.7	No Link
Distance	I Neut sv	Berlin/E/04/ NTCTR8.AmpSv.instMag.i[MX]	E04BPULD0/N.TCTR.8	No Link
Distance	U1 sv	Berlin/E/04/ ATVTR7.VolSv.instMag.i[MX]	E04BPULD0/A.TVTR.7	No Link
Distance	U2 sv	Berlin/E/04/ BTVTR8.VolSv.instMag.i[MX]	E04BPULD0/B.TVTR.8	No Link
Distance	U3 sv	Berlin/E/04/ CTVTR4.VolSv.instMag.i[MX]	E04BPULD0/C.TVTR.4	No Link
Distance	U Neut sv	Berlin/E/04/ NTVTR1.VolSv.instMag.i[MX]	E04BPULD0/N.TVTR.1	No Link
Overcurrent	OC Start	Berlin/E/04/PHPTOC1.Str.general[ST]	E04BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Berlin/E/04/PHPTOC1.Op.general[ST]	E04BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	I1 sv	Berlin/E/04/ ATCTR5.AmpSv.instMag.i[MX]	E04BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Berlin/E/04/ BTCTR1.AmpSv.instMag.f[MX]	E04BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Berlin/E/04/ CTCTR4.AmpSv.instMag.i[MX]	E04BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Berlin/E/04/ NTCTR6.AmpSv.instMag.i[MX]	E04BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Berlin/E/04/TripPTRC1.Tr.general[ST]	E04PIULD0/Trip.PTRC.1	No Link
BreakerFailure	BF Start	Berlin/E/04/RBRF1.Str.general[ST]	E04BCUBreakerFailure1/ RBRF.1	No Link
BreakerFailure	Operate External	Berlin/E/04/RBRF1.OpEx.general[ST]	E04BCUBreakerFailure1/ RBRF.1	No Link
BreakerFailure	Operate Internal	Berlin/E/04/RBRF1.OpIn.general[ST]	E04BCUBreakerFailure1/ RBRF.1	No Link
Interface	Local Operation	Berlin/E/04/QB1/ QB1XSWI1.Loc.stVal[ST]	E04PIUQB1Interface/ QB1.XSWI.1	No Link
Interface	Switch Position	Berlin/E/04/QB1/ QB1XSWI1.Pos.stVal[ST]	E04PIUQB1Interface/ QB1.XSWI.1	No Link
Control	Switch Command	Berlin/E/04/QB1/ QB1CSWI1.Pos.Oper.ctlVal[CO]	E04BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Open	Berlin/E/04/QB1/ QB1CSWI1.OpOpn.general[ST]	E04BCUQB1Control/ QB1.CSWI.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Contr ol	Operate Close	Berlin/E/04/QB1/ QB1CSWI1.OpCls.general[ST]	E04BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	QB1 Position	Berlin/E/04/QB1/ QB1CSWI1.Pos.stVal[ST]	E04BCUQB1Control/ QB1.CSWI.1	No Link
Inter face	Local Operation	Berlin/E/04/QA0/ QA0XCBR1.Loc.stVal[ST]	E04PIUQA0Interface/ QA0.XCBR.1	No Link
Inter face	Switch Position	Berlin/E/04/QA0/ QA0XCBR1.Pos.stVal[ST]	E04PIUQA0Interface/ QA0.XCBR.1	No Link
Contr ol	Switch Command	Berlin/E/04/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E04BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	Operate Open	Berlin/E/04/QA0/ QA0CSWI2.OpOpn.general[ST]	E04BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	Operate Close	Berlin/E/04/QA0/ QA0CSWI2.OpCls.general[ST]	E04BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	QA0 Position	Berlin/E/04/QA0/ QA0CSWI2.Pos.stVal[ST]	E04BCUQA0Control/ QA0.CSWI.2	No Link
L1	I1 sv	Berlin/E/04/CT/ ATCTR1.AmpSv.instMag.i[MX]	E04PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Berlin/E/04/CT/ BTCTR2.AmpSv.instMag.f[MX]	E04PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Berlin/E/04/CT/ CTCTR3.AmpSv.instMag.i[MX]	E04PIUCTCT/C.TCTR.3	No Link
Neut	I Neut sv	Berlin/E/04/CT/ NTCTR4.AmpSv.instMag.i[MX]	E04PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Berlin/E/04/VT/ ATVTR1.VolSv.instMag.i[MX]	E04PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Berlin/E/04/VT/ BTVTR2.VolSv.instMag.i[MX]	E04PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Berlin/E/04/VT/ CTVTR3.VolSv.instMag.i[MX]	E04PIUVTVT/C.TVTR.3	No Link
Neut	U Neut sv	Berlin/E/04/VT/ NTVTR4.VolSv.instMag.i[MX]	E04PIUVTVT/N.TVTR.4	No Link

Table 186. Signals of 04

3.3.7. Bay Berlin/E/06

Bay description is missing. Please add a short description of this bay at the Single Line diagram.

Role	Name	Type	Description
BCU	E06BCU	6MD86	-

Table 187. Specification for BCU

Role	Name	Type	Description
BPU	E06BPU	RED615	-

Table 188. Specification for BPU

Role	Name	Type	Description
BUP	E06BUP	P545	-

Table 189. Specification for BUP

Role	Name	Type	Description
PIU	E06PIU	SAM600	-

Table 190. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measur emen t	I1	Berlin/E/06/ AMMXU1.A.phsA.cVal.mag.f[MX]	E06BCUMeasurement/ A.MMXU.1	No Link
Measur emen t	I2	Berlin/E/06/ AMMXU1.A.phsB.cVal.mag.f[MX]	E06BCUMeasurement/ A.MMXU.1	No Link
Measur emen t	I3	Berlin/E/06/ AMMXU1.A.phsC.cVal.mag.f[MX]	E06BCUMeasurement/ A.MMXU.1	No Link
Measur emen t	I Neut	Berlin/E/06/ AMMXU1.A.neut.cVal.mag.f[MX]	E06BCUMeasurement/ A.MMXU.1	No Link
Measur emen t	U1	Berlin/E/06/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E06BCUMeasurement/ V.MMXU.2	No Link
Measur emen t	U2	Berlin/E/06/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E06BCUMeasurement/ V.MMXU.2	No Link
Measur emen t	U3	Berlin/E/06/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E06BCUMeasurement/ V.MMXU.2	No Link
Measur emen t	U Neut	Berlin/E/06/ VMMXU2.PhV.net.cVal.mag.f[MX]	E06BCUMeasurement/ V.MMXU.2	No Link
Measur emen t	U1 sv	Berlin/E/06/ ATVTR2.VolSv.instMag.i[MX]	E06BCUMeasurement/ A.TVTR.2	No Link
Measur emen t	U2 sv	Berlin/E/06/ BTVTR12.VolSv.instMag.i[MX]	E06BCUMeasurement/ B.TVTR.12	No Link
Measur emen t	U3 sv	Berlin/E/06/ CTVTR14.VolSv.instMag.i[MX]	E06BCUMeasurement/ C.TVTR.14	No Link
Measur emen t	U Neut sv	Berlin/E/06/ NTVTR3.VolSv.instMag.i[MX]	E06BCUMeasurement/ N.TVTR.3	No Link
Measur emen t	I1 sv	Berlin/E/06/ ATCTR5.AmpSv.instMag.i[MX]	E06BCUMeasurement/ A.TCTR.5	No Link
Measur emen t	I2 sv	Berlin/E/06/ BTCTR1.AmpSv.instMag.f[MX]	E06BCUMeasurement/ B.TCTR.1	No Link
Measur emen t	I3 sv	Berlin/E/06/ CTCTR4.AmpSv.instMag.i[MX]	E06BCUMeasurement/ C.TCTR.4	No Link
Measur emen t	I Neut sv	Berlin/E/06/ NTCTR6.AmpSv.instMag.i[MX]	E06BCUMeasurement/ N.TCTR.6	No Link
Dista nce	Start Z1	Berlin/E/06/Z1PDIS1.Str.general[ST]	E06BPULD0/Z1.PDIS.1	No Link
Dista nce	Operate Z1	Berlin/E/06/Z1PDIS1.Op.general[ST]	E06BPULD0/Z1.PDIS.1	No Link
Dista nce	Start Z2	Berlin/E/06/Z2PDIS2.Str.general[ST]	E06BPULD0/Z2.PDIS.2	No Link
Dista nce	Operate Z2	Berlin/E/06/Z2PDIS2.Op.general[ST]	E06BPULD0/Z2.PDIS.2	No Link
Dista nce	Start Z3	Berlin/E/06/Z3PDIS3.Str.general[ST]	E06BPULD0/Z3.PDIS.3	No Link
Dista nce	Operate Z3	Berlin/E/06/Z3PDIS3.Op.general[ST]	E06BPULD0/Z3.PDIS.3	No Link
Dista nce	DIS Operate	Berlin/E/06/DISPTRC1.Op.general[ST]	E06BPULD0/DIS.PTRC.1	No Link
Dista nce	I1 sv	Berlin/E/06/ ATCTR2.AmpSv.instMag.i[MX]	E06BPULD0/A.TCTR.2	No Link
Dista nce	I2 sv	Berlin/E/06/ BTCTR3.AmpSv.instMag.f[MX]	E06BPULD0/B.TCTR.3	No Link
Dista nce	I3 sv	Berlin/E/06/ CTCTR7.AmpSv.instMag.i[MX]	E06BPULD0/C.TCTR.7	No Link

Function	Process Name	Functional Name	Logical Device	Description
Dista nce	I Neut sv	Berlin/E/06/ NTCTR8.AmpSv.instMag.i[MX]	E06BPULD0/N.TCTR.8	No Link
Dista nce	U1 sv	Berlin/E/06/ ATVTR7.VolSv.instMag.i[MX]	E06BPULD0/A.TVTR.7	No Link
Dista nce	U2 sv	Berlin/E/06/ BTVTR8.VolSv.instMag.i[MX]	E06BPULD0/B.TVTR.8	No Link
Dista nce	U3 sv	Berlin/E/06/ CTVTR4.VolSv.instMag.i[MX]	E06BPULD0/C.TVTR.4	No Link
Dista nce	U Neut sv	Berlin/E/06/ NTVTR1.VolSv.instMag.i[MX]	E06BPULD0/N.TVTR.1	No Link
Overc urren t	OC Start	Berlin/E/06/PHPTOC1.Str.general[ST]	E06BUPOvercurrent/ PH.PTOC.1	No Link
Overc urren t	OC Operate	Berlin/E/06/PHPTOC1.Op.general[ST]	E06BUPOvercurrent/ PH.PTOC.1	No Link
Overc urren t	I1 sv	Berlin/E/06/ ATCTR5.AmpSv.instMag.i[MX]	E06BUPOvercurrent/A.TCTR.5	No Link
Overc urren t	I2 sv	Berlin/E/06/ BTCTR1.AmpSv.instMag.f[MX]	E06BUPOvercurrent/B.TCTR.1	No Link
Overc urren t	I3 sv	Berlin/E/06/ CTCTR4.AmpSv.instMag.i[MX]	E06BUPOvercurrent/C.TCTR.4	No Link
Overc urren t	I Neut sv	Berlin/E/06/ NTCTR6.AmpSv.instMag.i[MX]	E06BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Berlin/E/06/TripPTRC1.Tr.general[ST]	E06PIULD0/Trip.PTRC.1	No Link
Break erFai lure	BF Start	Berlin/E/06/RBRF1.Str.general[ST]	E06BCUBreakerFailure1/ RBRF.1	No Link
Break erFai lure	Operate External	Berlin/E/06/RBRF1.OpEx.general[ST]	E06BCUBreakerFailure1/ RBRF.1	No Link
Break erFai lure	Operate Internal	Berlin/E/06/RBRF1.OpIn.general[ST]	E06BCUBreakerFailure1/ RBRF.1	No Link
Inter face	Local Operation	Berlin/E/06/QB1/ QB1XSWI1.Loc.stVal[ST]	E06PIUQB1Interface/ QB1.XSWI.1	No Link
Inter face	Switch Position	Berlin/E/06/QB1/ QB1XSWI1.Pos.stVal[ST]	E06PIUQB1Interface/ QB1.XSWI.1	No Link
Contr ol	Switch Command	Berlin/E/06/QB1/ QB1CSWI1.Pos.Oper.ctlVal[CO]	E06BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	Operate Open	Berlin/E/06/QB1/ QB1CSWI1.OpOpn.general[ST]	E06BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	Operate Close	Berlin/E/06/QB1/ QB1CSWI1.OpCls.general[ST]	E06BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	QB1 Position	Berlin/E/06/QB1/ QB1CSWI1.Pos.stVal[ST]	E06BCUQB1Control/ QB1.CSWI.1	No Link
Inter face	Local Operation	Berlin/E/06/QA0/ QA0XCBR1.Loc.stVal[ST]	E06PIUQA0Interface/ QA0.XCBR.1	No Link
Inter face	Switch Position	Berlin/E/06/QA0/ QA0XCBR1.Pos.stVal[ST]	E06PIUQA0Interface/ QA0.XCBR.1	No Link
Contr ol	Switch Command	Berlin/E/06/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E06BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	Operate Open	Berlin/E/06/QA0/ QA0CSWI2.OpOpn.general[ST]	E06BCUQA0Control/ QA0.CSWI.2	No Link

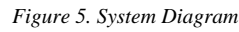
Function	Process Name	Functional Name	Logical Device	Description
Contr ol	Operate Close	Berlin/E/06/QA0/ QA0CSWI2.OpCls.general[ST]	E06BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	QA0 Position	Berlin/E/06/QA0/ QA0CSWI2.Pos.stVal[ST]	E06BCUQA0Control/ QA0.CSWI.2	No Link
L1	I1 sv	Berlin/E/06/CT/ ATCTR1.AmpSv.instMag.i[MX]	E06PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Berlin/E/06/CT/ BTCTR2.AmpSv.instMag.f[MX]	E06PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Berlin/E/06/CT/ CTCTR3.AmpSv.instMag.i[MX]	E06PIUCTCT/C.TCTR.3	No Link
Neut	I Neut sv	Berlin/E/06/CT/ NTCTR4.AmpSv.instMag.i[MX]	E06PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Berlin/E/06/VT/ ATVTR1.VolSv.instMag.i[MX]	E06PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Berlin/E/06/VT/ BTVTR2.VolSv.instMag.i[MX]	E06PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Berlin/E/06/VT/ CTVTR3.VolSv.instMag.i[MX]	E06PIUVTVT/C.TVTR.3	No Link
Neut	U Neut sv	Berlin/E/06/VT/ NTVTR4.VolSv.instMag.i[MX]	E06PIUVTVT/N.TVTR.4	No Link

Table 191. Signals of 06

3.4. Transformers

3.4.1. PWT

Name	Description	W1:VL	W2:VL	W3:VL	IED Name	Logical Device Instance	Logical Node
T1	-	-	W2:E	-			
T2	-	-	W2:E	-			

Table 192. Connected Access Points

Name		Type		
ProcessBus		8-MMS		

IED	Access Point	IP Address	IP Subnet	IP Gateway
E01BCU	F	10.10.0.2	255.255.255.0	10.10.0.1
E01BPU	AP2	10.10.0.3	255.255.255.0	10.10.0.1
E02BPU	F	10.10.0.4	255.255.255.0	10.10.0.1
E02BUP	F	10.10.0.5	255.255.255.0	10.10.0.1
E01BUP	AP2	10.10.0.6	255.255.255.0	10.10.0.1
E03BCU	F	10.10.0.7	255.255.255.0	10.10.0.1
E03BUP	AP2	10.10.0.9	255.255.255.0	10.10.0.1
E05BPU	F	10.10.0.12	255.255.255.0	10.10.0.1
E05BUP	F	10.10.0.13	255.255.255.0	10.10.0.1
E04BPU	AP2	10.10.0.18	255.255.255.0	10.10.0.1
E04BUP	AP2	10.10.0.19	255.255.255.0	10.10.0.1
E06BCU	F	10.10.0.20	255.255.255.0	10.10.0.1
E06BPU	AP2	10.10.0.21	255.255.255.0	10.10.0.1
E06BUP	AP2	10.10.0.22	255.255.255.0	10.10.0.1
E01PIU	S1	10.10.0.1	255.255.255.0	10.10.0.1
E02BCU	S2	127.0.0.1	255.255.255.0	127.0.0.0
E02PIU	E	192.168.100.103	255.255.255.0	192.168.100.1
E03PIU	S1	10.10.0.17	255.255.255.0	10.10.0.1
E04PIU	S1	10.10.0.16	255.255.255.0	10.10.0.1
E04BCU	E	10.10.0.10	255.255.255.0	10.10.0.1
E05PIU	E	10.10.0.14	255.255.255.0	10.10.0.1
E05BCU	S2	10.10.0.11	255.255.255.0	10.10.0.1
E06PIU	S1	10.10.0.15	255.255.255.0	10.10.0.1
E03BPU	AP2	10.10.0.8	255.255.255.0	10.10.0.1

Table 193. Connected Access Points

4.2. IED Overview

4.2.1. IED Summary

Name	IED Type	Manufacturer	Used in Bays
XPG	gateway	no manufacturer	Berlin
Zenon	ZENON	Copa-Data	Berlin
E01PIU	SAM600	ABB	01
E01BUP	P545	ALSTOM	01
E01BCU	6MD86	SIEMENS	01
E02BCU	C60	GE Multilin	02
E02PIU	6MU85	SIEMENS	02
E01BPU	RED615	ABB	01
E02BPU	7UT85	SIEMENS	02
E02BUP	7SJ85	SIEMENS	02

Name	IED Type	Manufacturer	Used in Bays
E03PIU	SAM600	ABB	03
E03BUP	P545	ALSTOM	03
E03BCU	6MD86	SIEMENS	03
E04BPU	RED615	ABB	04
E04PIU	SAM600	ABB	04
E04BUP	P545	ALSTOM	04
E04BCU	6MD86	SIEMENS	04
E05BPU	7UT85	SIEMENS	05
E05BUP	7SJ85	SIEMENS	05
E05PIU	6MU85	SIEMENS	05
E05BCU	C60	GE Multilin	05
E06BPU	RED615	ABB	06
E06PIU	SAM600	ABB	06
E06BUP	P545	ALSTOM	06
E06BCU	6MD86	SIEMENS	06
E03BPU	RED615	ABB	03

Table 194. 26 IEDs

4.3. Communication

4.3.1. Reports

Report Control: E01BUPSystem/LLN0.RCB.urcbA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BUP	Logical Device	System	Data Set	ds_urcb1
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urcbA	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BUPOvercurrent/ATCTR5.AmpSv[MX]	Zenon, Zenon
E01BUPOvercurrent/BTCTR1.AmpSv[MX]	Zenon, Zenon
E01BUPOvercurrent/CTCTR4.AmpSv[MX]	Zenon, Zenon
E01BUPOvercurrent/NTCTR6.AmpSv[MX]	Zenon, Zenon

Report Control: E01BUPSystem/LLN0.RCB.brcbA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BUP	Logical Device	System	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbA	Dchg	true
Dupd	false	Period	false	Qchg	true

Attribute	Value	Attribute	Value	Attribute	Value
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG
E01BUPOvercurrent/PHPTOC1.Str[ST]	XPG, XPG

Report Control: E01BCUMeasurement/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BCU	Logical Device	Measurement	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BCUBreakerFailure1/RBRF1.OpEx[ST]	Zenon, Zenon
E01BCUBreakerFailure1/RBRF1.OpIn[ST]	Zenon, Zenon
E01BCUBreakerFailure1/RBRF1.Str[ST]	Zenon, Zenon
E01BCUQA0Control/QA0CSWI2.OpCls[ST]	Zenon, Zenon
E01BCUQA0Control/QA0CSWI2.OpOpn[ST]	Zenon, Zenon
E01BCUQA0Control/QA0CSWI2.Pos[ST]	Zenon, Zenon
E01BCUQB1Control/QB1CSWI1.OpCls[ST]	Zenon, Zenon
E01BCUQB1Control/QB1CSWI1.OpOpn[ST]	Zenon, Zenon
E01BCUQB1Control/QB1CSWI1.Pos[ST]	Zenon, Zenon

Report Control: E01BCUMeasurement/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BCU	Logical Device	Measurement	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BCUBreakerFailure1/RBRF1.OpEx[ST]	XPG, XPG
E01BCUBreakerFailure1/RBRF1.OpIn[ST]	XPG, XPG
E01BCUBreakerFailure1/RBRF1.Str[ST]	XPG, XPG
E01BCUQA0Control/QA0CSWI2.OpCls[ST]	XPG, XPG

Source Data Attribute	Client
E01BCUQA0Control/QA0CSWI2.OpOpn[ST]	XPG, XPG
E01BCUQA0Control/QA0CSWI2.Pos[ST]	XPG, XPG
E01BCUQB1Control/QB1CSWI1.OpCls[ST]	XPG, XPG
E01BCUQB1Control/QB1CSWI1.OpOpn[ST]	XPG, XPG
E01BCUQB1Control/QB1CSWI1.Pos[ST]	XPG, XPG

Report Control: E01BCUMeasurement/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BCU	Logical Device	Measurement	Data Set	ds_urbcl
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbca	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BCUMeasurement/AMMXU1.A[MX]	Zenon, Zenon
E01BCUMeasurement/VMMXU2.PhV[MX]	Zenon, Zenon

Report Control: E01BCUMeasurement/LLN0.RCB.urbcb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BCU	Logical Device	Measurement	Data Set	ds_urbcb2
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbcb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BCUMeasurement/AMMXU1.A[MX]	XPG, XPG
E01BCUMeasurement/VMMXU2.PhV[MX]	XPG, XPG

Report Control: E02BCUMeasurement/LLN0.RCB.BRCB01

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	Logical Device	Measurement	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	BRCB01	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BCUBreakerFailure/RBRF1.OpEx.general[ST]	Zenon, Zenon
E02BCUBreakerFailure/RBRF1.OpIn.general[ST]	Zenon, Zenon
E02BCUBreakerFailure/RBRF1.Str.general[ST]	Zenon, Zenon
E02BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Zenon, Zenon
E02BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Zenon, Zenon
E02BCUQA0Control/QA0CSWI2.Pos.stVal[ST]	Zenon, Zenon
E02BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Zenon, Zenon
E02BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Zenon, Zenon
E02BCUQB1Control/QB1CSWI1.Pos.stVal[ST]	Zenon, Zenon

Report Control: E02BCUMeasurement/LLN0.RCB.BRCB02

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	Logical Device	Measurement	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	BRCB02	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BCUBreakerFailure/RBRF1.OpEx.general[ST]	XPG, XPG
E02BCUBreakerFailure/RBRF1.OpIn.general[ST]	XPG, XPG
E02BCUBreakerFailure/RBRF1.Str.general[ST]	XPG, XPG
E02BCUQA0Control/QA0CSWI2.OpCls.general[ST]	XPG, XPG
E02BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	XPG, XPG
E02BCUQA0Control/QA0CSWI2.Pos.stVal[ST]	XPG, XPG
E02BCUQB1Control/QB1CSWI1.OpCls.general[ST]	XPG, XPG
E02BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	XPG, XPG
E02BCUQB1Control/QB1CSWI1.Pos.stVal[ST]	XPG, XPG

Report Control: E02BCUMeasurement/LLN0.RCB.URCB01

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	Logical Device	Measurement	Data Set	ds_urcb1
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	URCB01	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BCUMeasurement/AMMXU1.A.neut.cVal.mag.f[MX]	Zenon, Zenon

Source Data Attribute	Client
E02BCUMeasurement/AMMXU1.A.phsA.cVal.mag.f[MX]	Zenon, Zenon
E02BCUMeasurement/AMMXU1.A.phsB.cVal.mag.f[MX]	Zenon, Zenon
E02BCUMeasurement/AMMXU1.A.phsC.cVal.mag.f[MX]	Zenon, Zenon
E02BCUMeasurement/VMMXU2.PhV.net.cVal.mag.f[MX]	Zenon, Zenon
E02BCUMeasurement/VMMXU2.PhV.phsA.cVal.mag.f[MX]	Zenon, Zenon
E02BCUMeasurement/VMMXU2.PhV.phsB.cVal.mag.f[MX]	Zenon, Zenon
E02BCUMeasurement/VMMXU2.PhV.phsC.cVal.mag.f[MX]	Zenon, Zenon

Report Control: E02BCUMeasurement/LLN0.RCB.URCB02

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	Logical Device	Measurement	Data Set	ds_urcb2
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	URCB02	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BCUMeasurement/AMMXU1.A.neut.cVal.mag.f[MX]	XPG, XPG
E02BCUMeasurement/AMMXU1.A.phsA.cVal.mag.f[MX]	XPG, XPG
E02BCUMeasurement/AMMXU1.A.phsB.cVal.mag.f[MX]	XPG, XPG
E02BCUMeasurement/AMMXU1.A.phsC.cVal.mag.f[MX]	XPG, XPG
E02BCUMeasurement/VMMXU2.PhV.net.cVal.mag.f[MX]	XPG, XPG
E02BCUMeasurement/VMMXU2.PhV.phsA.cVal.mag.f[MX]	XPG, XPG
E02BCUMeasurement/VMMXU2.PhV.phsB.cVal.mag.f[MX]	XPG, XPG
E02BCUMeasurement/VMMXU2.PhV.phsC.cVal.mag.f[MX]	XPG, XPG

Report Control: E01BPULD0/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BPU	Logical Device	LD0	Data Set	Statfled
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BPULD0/DISPTRC1.Op[ST]	Zenon, Zenon
E01BPULD0/Z1PDIS1.Op[ST]	Zenon, Zenon
E01BPULD0/Z1PDIS1.Str[ST]	Zenon, Zenon
E01BPULD0/Z2PDIS2.Op[ST]	Zenon, Zenon

Source Data Attribute	Client
E01BPULD0/Z2PDIS2.Str[ST]	Zenon, Zenon
E01BPULD0/Z3PDIS3.Op[ST]	Zenon, Zenon
E01BPULD0/Z3PDIS3.Str[ST]	Zenon, Zenon

Report Control: E01BPULD0/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BPU	Logical Device	LD0	Data Set	StatIo
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BPULD0/DISPTRC1.Op[ST]	XPG, XPG
E01BPULD0/Z1PDIS1.Op[ST]	XPG, XPG
E01BPULD0/Z1PDIS1.Str[ST]	XPG, XPG
E01BPULD0/Z2PDIS2.Op[ST]	XPG, XPG
E01BPULD0/Z2PDIS2.Str[ST]	XPG, XPG
E01BPULD0/Z3PDIS3.Op[ST]	XPG, XPG
E01BPULD0/Z3PDIS3.Str[ST]	XPG, XPG

Report Control: E01BPULD0/LLN0.RCB.urcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BPU	Logical Device	LD0	Data Set	StatUrg
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E01BPULD0/ATCTR2.AmpSv[MX]	Zenon, Zenon
E01BPULD0/ATVTR7.VolSv[MX]	Zenon, Zenon
E01BPULD0/BTCTR3.AmpSv[MX]	Zenon, Zenon
E01BPULD0/BTVTR8.VolSv[MX]	Zenon, Zenon
E01BPULD0/CTCTR7.AmpSv[MX]	Zenon, Zenon
E01BPULD0/CTVTR4.VolSv[MX]	Zenon, Zenon
E01BPULD0/NTCTR8.AmpSv[MX]	Zenon, Zenon
E01BPULD0/NTVTR1.VolSv[MX]	Zenon, Zenon

Report Control: E02BPUDifferential/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BPU	Logical Device	Differential	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BPUDifferential/PDIF1.Op[ST]	Zenon, Zenon

Report Control: E02BPUDifferential/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BPU	Logical Device	Differential	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BPUDifferential/PDIF1.Op[ST]	XPG, XPG

Report Control: E02BPUDifferential/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BPU	Logical Device	Differential	Data Set	ds_urbcl
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbca	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BPUDifferential/ATCTR2.AmpSv[MX]	XPG, XPG
E02BPUDifferential/BTCTR3.AmpSv[MX]	XPG, XPG
E02BPUDifferential/CTCTR1.AmpSv[MX]	XPG, XPG
E02BPUDifferential/NTCTR4.AmpSv[MX]	XPG, XPG

Report Control: E02BUPOvercurrent/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BUP	Logical Device	Overcurrent	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000

Attribute	Value	Attribute	Value	Attribute	Value
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG
E02BUPOvercurrent/PHPTOC1.Str[ST]	XPG, XPG

Report Control: E02BUPOvercurrent/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BUP	Logical Device	Overcurrent	Data Set	ds_urbcl
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbca	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E02BUPOvercurrent/ATCTR5.AmpSv[MX]	Zenon, Zenon
E02BUPOvercurrent/BTCTR1.AmpSv[MX]	Zenon, Zenon
E02BUPOvercurrent/CTCTR4.AmpSv[MX]	Zenon, Zenon
E02BUPOvercurrent/NTCTR6.AmpSv[MX]	Zenon, Zenon

Report Control: E03BUPSystem/LLN0.RCB.urbcA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BUP	Logical Device	System	Data Set	ds_urbcl
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbcA	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BUPOvercurrent/ATCTR5.AmpSv[MX]	Zenon, Zenon
E03BUPOvercurrent/BTCTR1.AmpSv[MX]	Zenon, Zenon
E03BUPOvercurrent/CTCTR4.AmpSv[MX]	Zenon, Zenon
E03BUPOvercurrent/NTCTR6.AmpSv[MX]	Zenon, Zenon

Report Control: E03BUPSystem/LLN0.RCB.brcbA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BUP	Logical Device	System	Data Set	ds_brcbl

Attribute	Value	Attribute	Value	Attribute	Value
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbA	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG
E03BUPOvercurrent/PHPTOC1.Str[ST]	XPG, XPG

Report Control: E03BCUMeasurement/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	Logical Device	Measurement	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BCUBreakerFailure1/RBRF1.OpEx[ST]	Zenon, Zenon
E03BCUBreakerFailure1/RBRF1.OpIn[ST]	Zenon, Zenon
E03BCUBreakerFailure1/RBRF1.Str[ST]	Zenon, Zenon
E03BCUQA0Control/QA0CSWI2.OpCls[ST]	Zenon, Zenon
E03BCUQA0Control/QA0CSWI2.OpOpn[ST]	Zenon, Zenon
E03BCUQA0Control/QA0CSWI2.Pos[ST]	Zenon, Zenon
E03BCUQB1Control/QB1CSWI1.OpCls[ST]	Zenon, Zenon
E03BCUQB1Control/QB1CSWI1.OpOpn[ST]	Zenon, Zenon
E03BCUQB1Control/QB1CSWI1.Pos[ST]	Zenon, Zenon

Report Control: E03BCUMeasurement/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	Logical Device	Measurement	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BCUBreakerFailure1/RBRF1.OpEx[ST]	XPG, XPG

Source Data Attribute	Client
E03BCUBreakerFailure1/RBRF1.OpIn[ST]	XPG, XPG
E03BCUBreakerFailure1/RBRF1.Str[ST]	XPG, XPG
E03BCUQA0Control/QA0CSWI2.OpCls[ST]	XPG, XPG
E03BCUQA0Control/QA0CSWI2.OpOpn[ST]	XPG, XPG
E03BCUQA0Control/QA0CSWI2.Pos[ST]	XPG, XPG
E03BCUQB1Control/QB1CSWI1.OpCls[ST]	XPG, XPG
E03BCUQB1Control/QB1CSWI1.OpOpn[ST]	XPG, XPG
E03BCUQB1Control/QB1CSWI1.Pos[ST]	XPG, XPG

Report Control: E03BCUMeasurement/LLN0.RCB.urcha

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	Logical Device	Measurement	Data Set	ds_urch1
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urcha	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BCUMeasurement/AMMXU1.A[MX]	Zenon, Zenon
E03BCUMeasurement/VMMXU2.PhV[MX]	Zenon, Zenon

Report Control: E03BCUMeasurement/LLN0.RCB.urbcb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	Logical Device	Measurement	Data Set	ds_urbcb2
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbcb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BCUMeasurement/AMMXU1.A[MX]	XPG, XPG
E03BCUMeasurement/VMMXU2.PhV[MX]	XPG, XPG

Report Control: E04BPULD0/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BPU	Logical Device	LD0	Data Set	StatIed
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true

Attribute	Value	Attribute	Value	Attribute	Value
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BPULD0/DISPTRC1.Op[ST]	Zenon, Zenon
E04BPULD0/Z1PDIS1.Op[ST]	Zenon, Zenon
E04BPULD0/Z1PDIS1.Str[ST]	Zenon, Zenon
E04BPULD0/Z2PDIS2.Op[ST]	Zenon, Zenon
E04BPULD0/Z2PDIS2.Str[ST]	Zenon, Zenon
E04BPULD0/Z3PDIS3.Op[ST]	Zenon, Zenon
E04BPULD0/Z3PDIS3.Str[ST]	Zenon, Zenon

Report Control: E04BPULD0/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BPU	Logical Device	LD0	Data Set	StatIo
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BPULD0/DISPTRC1.Op[ST]	XPG, XPG
E04BPULD0/Z1PDIS1.Op[ST]	XPG, XPG
E04BPULD0/Z1PDIS1.Str[ST]	XPG, XPG
E04BPULD0/Z2PDIS2.Op[ST]	XPG, XPG
E04BPULD0/Z2PDIS2.Str[ST]	XPG, XPG
E04BPULD0/Z3PDIS3.Op[ST]	XPG, XPG
E04BPULD0/Z3PDIS3.Str[ST]	XPG, XPG

Report Control: E04BPULD0/LLN0.RCB.urcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BPU	Logical Device	LD0	Data Set	StatUrg
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BPULD0/ATCTR2.AmpSv[MX]	Zenon, Zenon
E04BPULD0/ATVTR7.VolSv[MX]	Zenon, Zenon

Source Data Attribute	Client
E04BPULD0/BTCTR3.AmpSv[MX]	Zenon, Zenon
E04BPULD0/BTVTR8.VolSv[MX]	Zenon, Zenon
E04BPULD0/CTCTR7.AmpSv[MX]	Zenon, Zenon
E04BPULD0/CTVTR4.VolSv[MX]	Zenon, Zenon
E04BPULD0/NTCTR8.AmpSv[MX]	Zenon, Zenon
E04BPULD0/NTVTR1.VolSv[MX]	Zenon, Zenon

Report Control: E04BUPSystem/LLN0.RCB.urbcA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BUP	Logical Device	System	Data Set	ds_urbc1
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbcA	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BUPOvercurrent/ATCTR5.AmpSv[MX]	Zenon, Zenon
E04BUPOvercurrent/BTCTR1.AmpSv[MX]	Zenon, Zenon
E04BUPOvercurrent/CTCTR4.AmpSv[MX]	Zenon, Zenon
E04BUPOvercurrent/NTCTR6.AmpSv[MX]	Zenon, Zenon

Report Control: E04BUPSystem/LLN0.RCB.brcbA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BUP	Logical Device	System	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbA	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG
E04BUPOvercurrent/PHPTOC1.Str[ST]	XPG, XPG

Report Control: E04BCUMeasurement/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BCU	Logical Device	Measurement	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true

Attribute	Value	Attribute	Value	Attribute	Value
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BCUBreakerFailure1/RBRF1.OpEx[ST]	Zenon, Zenon
E04BCUBreakerFailure1/RBRF1.OpIn[ST]	Zenon, Zenon
E04BCUBreakerFailure1/RBRF1.Str[ST]	Zenon, Zenon
E04BCUQA0Control/QA0CSWI2.OpCls[ST]	Zenon, Zenon
E04BCUQA0Control/QA0CSWI2.OpOpn[ST]	Zenon, Zenon
E04BCUQA0Control/QA0CSWI2.Pos[ST]	Zenon, Zenon
E04BCUQB1Control/QB1CSWI1.OpCls[ST]	Zenon, Zenon
E04BCUQB1Control/QB1CSWI1.OpOpn[ST]	Zenon, Zenon
E04BCUQB1Control/QB1CSWI1.Pos[ST]	Zenon, Zenon

Report Control: E04BCUMeasurement/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BCU	Logical Device	Measurement	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BCUBreakerFailure1/RBRF1.OpEx[ST]	XPG, XPG
E04BCUBreakerFailure1/RBRF1.OpIn[ST]	XPG, XPG
E04BCUBreakerFailure1/RBRF1.Str[ST]	XPG, XPG
E04BCUQA0Control/QA0CSWI2.OpCls[ST]	XPG, XPG
E04BCUQA0Control/QA0CSWI2.OpOpn[ST]	XPG, XPG
E04BCUQA0Control/QA0CSWI2.Pos[ST]	XPG, XPG
E04BCUQB1Control/QB1CSWI1.OpCls[ST]	XPG, XPG
E04BCUQB1Control/QB1CSWI1.OpOpn[ST]	XPG, XPG
E04BCUQB1Control/QB1CSWI1.Pos[ST]	XPG, XPG

Report Control: E04BCUMeasurement/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BCU	Logical Device	Measurement	Data Set	ds_urbcb1
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbca	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false

Attribute	Value	Attribute	Value	Attribute	Value
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BCUMeasurement/AMMXU1.A[MX]	Zenon, Zenon
E04BCUMeasurement/VMMXU2.PhV[MX]	Zenon, Zenon

Report Control: E04BCUMeasurement/LLN0.RCB.urbcb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BCU	Logical Device	Measurement	Data Set	ds_urbcb2
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbcb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BCUMeasurement/AMMXU1.A[MX]	XPG, XPG
E04BCUMeasurement/VMMXU2.PhV[MX]	XPG, XPG

Report Control: E05BPUDifferential/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BPU	Logical Device	Differential	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BPUDifferential/PDIF1.Op[ST]	Zenon, Zenon

Report Control: E05BPUDifferential/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BPU	Logical Device	Differential	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BPUDifferential/PDIF1.Op[ST]	XPG, XPG

Report Control: E05BPUDifferential/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BPU	Logical Device	Differential	Data Set	ds_urbcl
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbca	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BPUDifferential/ATCTR2.AmpSv[MX]	XPG, XPG
E05BPUDifferential/BTCTR3.AmpSv[MX]	XPG, XPG
E05BPUDifferential/CTCTR1.AmpSv[MX]	XPG, XPG
E05BPUDifferential/NTCTR4.AmpSv[MX]	XPG, XPG

Report Control: E05BUPOvercurrent/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BUP	Logical Device	Overcurrent	Data Set	ds_brcbl
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG
E05BUPOvercurrent/PHPTOC1.Str[ST]	XPG, XPG

Report Control: E05BUPOvercurrent/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BUP	Logical Device	Overcurrent	Data Set	ds_urbcl
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbca	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BUPOvercurrent/ATCTR5.AmpSv[MX]	Zenon, Zenon
E05BUPOvercurrent/BTCTR1.AmpSv[MX]	Zenon, Zenon
E05BUPOvercurrent/CTCTR4.AmpSv[MX]	Zenon, Zenon
E05BUPOvercurrent/NTCTR6.AmpSv[MX]	Zenon, Zenon

Report Control: E05BCUMeasurement/LLN0.RCB.BRCB01

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	Logical Device	Measurement	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	BRCB01	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BCUBreakerFailure/RBRF1.OpEx.general[ST]	Zenon, Zenon
E05BCUBreakerFailure/RBRF1.OpIn.general[ST]	Zenon, Zenon
E05BCUBreakerFailure/RBRF1.Str.general[ST]	Zenon, Zenon
E05BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Zenon, Zenon
E05BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Zenon, Zenon
E05BCUQA0Control/QA0CSWI2.Pos.stVal[ST]	Zenon, Zenon
E05BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Zenon, Zenon
E05BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Zenon, Zenon
E05BCUQB1Control/QB1CSWI1.Pos.stVal[ST]	Zenon, Zenon

Report Control: E05BCUMeasurement/LLN0.RCB.BRCB02

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	Logical Device	Measurement	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	BRCB02	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BCUBreakerFailure/RBRF1.OpEx.general[ST]	XPG, XPG
E05BCUBreakerFailure/RBRF1.OpIn.general[ST]	XPG, XPG
E05BCUBreakerFailure/RBRF1.Str.general[ST]	XPG, XPG
E05BCUQA0Control/QA0CSWI2.OpCls.general[ST]	XPG, XPG
E05BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	XPG, XPG
E05BCUQA0Control/QA0CSWI2.Pos.stVal[ST]	XPG, XPG
E05BCUQB1Control/QB1CSWI1.OpCls.general[ST]	XPG, XPG
E05BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	XPG, XPG
E05BCUQB1Control/QB1CSWI1.Pos.stVal[ST]	XPG, XPG

Report Control: E05BCUMeasurement/LLN0.RCB.URCB01

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	Logical Device	Measurement	Data Set	ds_urcb1
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	URCB01	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BCUMeasurement/AMMXU1.A.neut.cVal.mag.f[MX]	Zenon, Zenon
E05BCUMeasurement/AMMXU1.A.phsA.cVal.mag.f[MX]	Zenon, Zenon
E05BCUMeasurement/AMMXU1.A.phsB.cVal.mag.f[MX]	Zenon, Zenon
E05BCUMeasurement/AMMXU1.A.phsC.cVal.mag.f[MX]	Zenon, Zenon
E05BCUMeasurement/VMMXU2.PhV.net.cVal.mag.f[MX]	Zenon, Zenon
E05BCUMeasurement/VMMXU2.PhV.phsA.cVal.mag.f[MX]	Zenon, Zenon
E05BCUMeasurement/VMMXU2.PhV.phsB.cVal.mag.f[MX]	Zenon, Zenon
E05BCUMeasurement/VMMXU2.PhV.phsC.cVal.mag.f[MX]	Zenon, Zenon

Report Control: E05BCUMeasurement/LLN0.RCB.URCB02

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	Logical Device	Measurement	Data Set	ds_urcb2
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	URCB02	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E05BCUMeasurement/AMMXU1.A.neut.cVal.mag.f[MX]	XPG, XPG
E05BCUMeasurement/AMMXU1.A.phsA.cVal.mag.f[MX]	XPG, XPG
E05BCUMeasurement/AMMXU1.A.phsB.cVal.mag.f[MX]	XPG, XPG
E05BCUMeasurement/AMMXU1.A.phsC.cVal.mag.f[MX]	XPG, XPG
E05BCUMeasurement/VMMXU2.PhV.net.cVal.mag.f[MX]	XPG, XPG
E05BCUMeasurement/VMMXU2.PhV.phsA.cVal.mag.f[MX]	XPG, XPG
E05BCUMeasurement/VMMXU2.PhV.phsB.cVal.mag.f[MX]	XPG, XPG
E05BCUMeasurement/VMMXU2.PhV.phsC.cVal.mag.f[MX]	XPG, XPG

Report Control: E06BPULD0/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BPU	Logical Device	LD0	Data Set	Statfed
buffered	true	buffered Time	100	report confRev	10000

Attribute	Value	Attribute	Value	Attribute	Value
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BPULD0/DISPTRC1.Op[ST]	Zenon, Zenon
E06BPULD0/Z1PDIS1.Op[ST]	Zenon, Zenon
E06BPULD0/Z1PDIS1.Str[ST]	Zenon, Zenon
E06BPULD0/Z2PDIS2.Op[ST]	Zenon, Zenon
E06BPULD0/Z2PDIS2.Str[ST]	Zenon, Zenon
E06BPULD0/Z3PDIS3.Op[ST]	Zenon, Zenon
E06BPULD0/Z3PDIS3.Str[ST]	Zenon, Zenon

Report Control: E06BPULD0/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BPU	Logical Device	LD0	Data Set	StatIo
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BPULD0/DISPTRC1.Op[ST]	XPG, XPG
E06BPULD0/Z1PDIS1.Op[ST]	XPG, XPG
E06BPULD0/Z1PDIS1.Str[ST]	XPG, XPG
E06BPULD0/Z2PDIS2.Op[ST]	XPG, XPG
E06BPULD0/Z2PDIS2.Str[ST]	XPG, XPG
E06BPULD0/Z3PDIS3.Op[ST]	XPG, XPG
E06BPULD0/Z3PDIS3.Str[ST]	XPG, XPG

Report Control: E06BPULD0/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BPU	Logical Device	LD0	Data Set	StatUrg
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urbca	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BPULD0/ATCTR2.AmpSv[MX]	Zenon, Zenon
E06BPULD0/ATVTR7.VolSv[MX]	Zenon, Zenon
E06BPULD0/BTCTR3.AmpSv[MX]	Zenon, Zenon
E06BPULD0/BTVTR8.VolSv[MX]	Zenon, Zenon
E06BPULD0/CTCTR7.AmpSv[MX]	Zenon, Zenon
E06BPULD0/CTVTR4.VolSv[MX]	Zenon, Zenon
E06BPULD0/NTCTR8.AmpSv[MX]	Zenon, Zenon
E06BPULD0/NTVTR1.VolSv[MX]	Zenon, Zenon

Report Control: E06BUPSystem/LLN0.RCB.urcbA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BUP	Logical Device	System	Data Set	ds_urcb1
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urcbA	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BUPOvercurrent/ATCTR5.AmpSv[MX]	Zenon, Zenon
E06BUPOvercurrent/BTCTR1.AmpSv[MX]	Zenon, Zenon
E06BUPOvercurrent/CTCTR4.AmpSv[MX]	Zenon, Zenon
E06BUPOvercurrent/NTCTR6.AmpSv[MX]	Zenon, Zenon

Report Control: E06BUPSystem/LLN0.RCB.brcbA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BUP	Logical Device	System	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbA	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG
E06BUPOvercurrent/PHPTOC1.Str[ST]	XPG, XPG

Report Control: E06BCUMeasurement/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	Logical Device	Measurement	Data Set	ds_brcb1
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true

Attribute	Value	Attribute	Value	Attribute	Value
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BCUBreakerFailure1/RBRF1.OpEx[ST]	Zenon, Zenon
E06BCUBreakerFailure1/RBRF1.OpIn[ST]	Zenon, Zenon
E06BCUBreakerFailure1/RBRF1.Str[ST]	Zenon, Zenon
E06BCUQA0Control/QA0CSWI2.OpCls[ST]	Zenon, Zenon
E06BCUQA0Control/QA0CSWI2.OpOpn[ST]	Zenon, Zenon
E06BCUQA0Control/QA0CSWI2.Pos[ST]	Zenon, Zenon
E06BCUQB1Control/QB1CSWI1.OpCls[ST]	Zenon, Zenon
E06BCUQB1Control/QB1CSWI1.OpOpn[ST]	Zenon, Zenon
E06BCUQB1Control/QB1CSWI1.Pos[ST]	Zenon, Zenon

Report Control: E06BCUMeasurement/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	Logical Device	Measurement	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BCUBreakerFailure1/RBRF1.OpEx[ST]	XPG, XPG
E06BCUBreakerFailure1/RBRF1.OpIn[ST]	XPG, XPG
E06BCUBreakerFailure1/RBRF1.Str[ST]	XPG, XPG
E06BCUQA0Control/QA0CSWI2.OpCls[ST]	XPG, XPG
E06BCUQA0Control/QA0CSWI2.OpOpn[ST]	XPG, XPG
E06BCUQA0Control/QA0CSWI2.Pos[ST]	XPG, XPG
E06BCUQB1Control/QB1CSWI1.OpCls[ST]	XPG, XPG
E06BCUQB1Control/QB1CSWI1.OpOpn[ST]	XPG, XPG
E06BCUQB1Control/QB1CSWI1.Pos[ST]	XPG, XPG

Report Control: E06BCUMeasurement/LLN0.RCB.urcha

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	Logical Device	Measurement	Data Set	ds_urch1
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urcha	Dchg	true
Dupd	false	Period	false	Qchg	true

Attribute	Value	Attribute	Value	Attribute	Value
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BCUMeasurement/AMMXU1.A[MX]	Zenon, Zenon
E06BCUMeasurement/VMMXU2.PhV[MX]	Zenon, Zenon

Report Control: E06BCUMeasurement/LLN0.RCB.urchb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	Logical Device	Measurement	Data Set	ds_urch2
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urchb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E06BCUMeasurement/AMMXU1.A[MX]	XPG, XPG
E06BCUMeasurement/VMMXU2.PhV[MX]	XPG, XPG

Report Control: E03BPULD0/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BPU	Logical Device	LD0	Data Set	StatIed
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BPULD0/DISPTRC1.Op[ST]	Zenon, Zenon
E03BPULD0/Z1PDIS1.Op[ST]	Zenon, Zenon
E03BPULD0/Z1PDIS1.Str[ST]	Zenon, Zenon
E03BPULD0/Z2PDIS2.Op[ST]	Zenon, Zenon
E03BPULD0/Z2PDIS2.Str[ST]	Zenon, Zenon
E03BPULD0/Z3PDIS3.Op[ST]	Zenon, Zenon
E03BPULD0/Z3PDIS3.Str[ST]	Zenon, Zenon

Report Control: E03BPULD0/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BPU	Logical Device	LD0	Data Set	StatIo
buffered	true	buffered Time	100	report confRev	10000

Attribute	Value	Attribute	Value	Attribute	Value
intg Pd	100	rpt ID	brcb	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BPULD0/DISPTRC1.Op[ST]	XPG, XPG
E03BPULD0/Z1PDIS1.Op[ST]	XPG, XPG
E03BPULD0/Z1PDIS1.Str[ST]	XPG, XPG
E03BPULD0/Z2PDIS2.Op[ST]	XPG, XPG
E03BPULD0/Z2PDIS2.Str[ST]	XPG, XPG
E03BPULD0/Z3PDIS3.Op[ST]	XPG, XPG
E03BPULD0/Z3PDIS3.Str[ST]	XPG, XPG

Report Control: E03BPULD0/LLN0.RCB.urcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BPU	Logical Device	LD0	Data Set	StatUrg
buffered	false	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	urcba	Dchg	true
Dupd	false	Period	false	Qchg	true
config Ref	true	Data Ref	false	Data Set	true
Entry ID	false	Reason Code	false	Seq Num	false
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E03BPULD0/ATCTR2.AmpSv[MX]	Zenon, Zenon
E03BPULD0/ATVTR7.VolSv[MX]	Zenon, Zenon
E03BPULD0/BTCTR3.AmpSv[MX]	Zenon, Zenon
E03BPULD0/BTVTR8.VolSv[MX]	Zenon, Zenon
E03BPULD0/CTCTR7.AmpSv[MX]	Zenon, Zenon
E03BPULD0/CTVTR4.VolSv[MX]	Zenon, Zenon
E03BPULD0/NTCTR8.AmpSv[MX]	Zenon, Zenon
E03BPULD0/NTVTR1.VolSv[MX]	Zenon, Zenon

4.3.2. Unused Report Control Blocks

IED Name	Logical Device	Report ID	Buffered
E01BUP	System	urcbB	false
E01BUP	System	urcbC	false
E01BUP	System	urcbD	false
E01BUP	System	urcbE	false
E01BUP	System	urcbF	false
E01BUP	System	urcbG	false
E01BUP	System	urcbH	false

IED Name	Logical Device	Report ID	Buffered
E01BUP	System	urcbI	false
E01BUP	System	urcbJ	false
E01BUP	System	urcbK	false
E01BUP	System	urcbL	false
E01BUP	System	urcbM	false
E01BUP	System	urcbN	false
E01BUP	System	urcbO	false
E01BUP	System	urcbP	false
E01BUP	System	brcbB	true
E01BUP	System	brcbC	true
E01BUP	System	brcbD	true
E01BUP	System	brcbE	true
E01BUP	System	brcbF	true
E01BUP	System	brcbG	true
E01BUP	System	brcbH	true
E03BUP	System	urcbB	false
E03BUP	System	urcbC	false
E03BUP	System	urcbD	false
E03BUP	System	urcbE	false
E03BUP	System	urcbF	false
E03BUP	System	urcbG	false
E03BUP	System	urcbH	false
E03BUP	System	urcbI	false
E03BUP	System	urcbJ	false
E03BUP	System	urcbK	false
E03BUP	System	urcbL	false
E03BUP	System	urcbM	false
E03BUP	System	urcbN	false
E03BUP	System	urcbO	false
E03BUP	System	urcbP	false
E03BUP	System	brcbB	true
E03BUP	System	brcbC	true
E03BUP	System	brcbD	true
E03BUP	System	brcbE	true
E03BUP	System	brcbF	true
E03BUP	System	brcbG	true
E03BUP	System	brcbH	true
E04BUP	System	urcbB	false
E04BUP	System	urcbC	false
E04BUP	System	urcbD	false
E04BUP	System	urcbE	false

IED Name	Logical Device	Report ID	Buffered
E04BUP	System	urcbF	false
E04BUP	System	urcbG	false
E04BUP	System	urcbH	false
E04BUP	System	urcbI	false
E04BUP	System	urcbJ	false
E04BUP	System	urcbK	false
E04BUP	System	urcbL	false
E04BUP	System	urcbM	false
E04BUP	System	urcbN	false
E04BUP	System	urcbO	false
E04BUP	System	urcbP	false
E04BUP	System	brcbB	true
E04BUP	System	brcbC	true
E04BUP	System	brcbD	true
E04BUP	System	brcbE	true
E04BUP	System	brcbF	true
E04BUP	System	brcbG	true
E04BUP	System	brcbH	true
E06BUP	System	urcbB	false
E06BUP	System	urcbC	false
E06BUP	System	urcbD	false
E06BUP	System	urcbE	false
E06BUP	System	urcbF	false
E06BUP	System	urcbG	false
E06BUP	System	urcbH	false
E06BUP	System	urcbI	false
E06BUP	System	urcbJ	false
E06BUP	System	urcbK	false
E06BUP	System	urcbL	false
E06BUP	System	urcbM	false
E06BUP	System	urcbN	false
E06BUP	System	urcbO	false
E06BUP	System	urcbP	false
E06BUP	System	brcbB	true
E06BUP	System	brcbC	true
E06BUP	System	brcbD	true
E06BUP	System	brcbE	true
E06BUP	System	brcbF	true
E06BUP	System	brcbG	true
E06BUP	System	brcbH	true

4.3.3. Goose Messages

Publisher	GOOSE ID	Subscribers
E01PIU	gcb_f1	E01BCU
E01PIU	gcb_l1	E01BCU
E01PIU	gcb_l2	E01BCU
E01BUP	gcb01	E01PIU
E01BCU	gcb_f1	E05PIU, E02PIU, E01PIU
E01BCU	gcb_l1	E05PIU, E02PIU, E01PIU
E01BCU	gcb_l2	E05PIU, E02PIU, E01PIU
E02BCU	GoCB01	E06PIU, E01PIU, E03PIU, E04PIU, E02PIU
E02BCU	GoCB02	E06PIU, E01PIU, E03PIU, E04PIU, E02PIU
E02BCU	GoCB03	E06PIU, E01PIU, E03PIU, E04PIU, E02PIU
E02PIU	gcb_f1	
E02PIU	gcb_l1	
E02PIU	gcb_l2	
E01BPU	gcb_f1	E01PIU
E02BPU	gcb_f1	E02PIU
E02BUP	gcb_f1	E02PIU
E03PIU	gcb_f1	E03BCU
E03PIU	gcb_l1	E03BCU
E03PIU	gcb_l2	E03BCU
E03BUP	gcb01	E03PIU
E03BCU	gcb_f1	E05PIU, E02PIU, E03PIU
E03BCU	gcb_l1	E05PIU, E02PIU, E03PIU
E03BCU	gcb_l2	E05PIU, E02PIU, E03PIU
E04BPU	gcb_f1	E04PIU
E04PIU	gcb_f1	E04BCU
E04PIU	gcb_l1	E04BCU
E04PIU	gcb_l2	E04BCU
E04BUP	gcb01	E04PIU
E04BCU	gcb_f1	E05PIU, E02PIU, E04PIU
E04BCU	gcb_l1	E05PIU, E02PIU, E04PIU
E04BCU	gcb_l2	E05PIU, E02PIU, E04PIU
E05BPU	gcb_f1	E05PIU
E05BUP	gcb_f1	E05PIU
E05PIU	gcb_f1	
E05PIU	gcb_l1	
E05PIU	gcb_l2	
E05BCU	GoCB01	E06PIU, E01PIU, E03PIU, E04PIU, E05PIU

Publisher	GOOSE ID	Subscribers
E05BCU	GoCB02	E06PIU, E01PIU, E03PIU, E04PIU, E05PIU
E05BCU	GoCB03	E06PIU, E01PIU, E03PIU, E04PIU, E05PIU
E06BPU	gcb_f1	E06PIU
E06PIU	gcb_f1	E06BCU
E06PIU	gcb_l1	E06BCU
E06PIU	gcb_l2	E06BCU
E06BUP	gcb01	E06PIU
E06BCU	gcb_f1	E05PIU, E02PIU, E06PIU
E06BCU	gcb_l1	E05PIU, E02PIU, E06PIU
E06BCU	gcb_l2	E05PIU, E02PIU, E06PIU
E03BPU	gcb_f1	E03PIU

Table 195. GOOSE Messages Overview

GOOSE Message Details

Goose Control:E01PIULD0/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01PIU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E01PIULD0/LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E01PIULD0/TripPTRC1.Tr.general[ST]	Internal Address
E01BCUBreakerFailure1/RBRF.1	-

Table 196. Subscribers to: E01PIU

Goose Control:E01PIULD0/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01PIU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E01PIULD0/LLN0gcb_l1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E01PIUQA0Interface/QA0XCBR1.Pos.stVal[ST]	Internal Address
E01BCUQA0Control/QA0.CSWI.2	-

Table 197. Subscribers to: E01PIU

Goose Control:E01PIULD0/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01PIU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00

Attribute	Value	Attribute	Value	Attribute	Value
Logical Device	LD0	DataSet Description	-	Goose appID	E01PIULD0/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E01PIUQB1Interface/QB1XSWI1.Pos.stVal[ST]	Internal Address
E01BCUQB1Control/QB1.CSWI.1	-

Table 198. Subscribers to: E01PIU

Goose Control:E01BUPSystem/LLN0.GCB.gcb01

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BUP	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	System	DataSet Description	-	Goose appID	E01BUPSystem/ LLN0gcb01
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E01BUPOvercurrent/PHPTOC1.Op.general[ST]	Internal Address
E01PIULD0/LLN0	-

Table 199. Subscribers to: E01BUP

Goose Control:E01BCUMeasurement/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BCU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E01BCUMeasurement/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E01BCUBreakerFailure1/RBRF1.OpEx.general[ST]	Internal Address
E05PIUQA0Interface/QA0.XCBR.1	-
E02PIUQA0Interface/QA0.XCBR.1	-

Table 200. Subscribers to: E01BCU

Subscribers to: E01BCUBreakerFailure1/RBRF1.OpIn.general[ST]	Internal Address
E01PIULD0/LLN0	-

Table 201. Subscribers to: E01BCU

Goose Control:E01BCUMeasurement/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BCU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E01BCUMeasurement/ LLN0gcb_l1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E01BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Internal Address
E01PIULD0/LLN0	-

Table 202. Subscribers to: E01BCU

Subscribers to: E01BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
E01PIULD0/LLN0	-

Table 203. Subscribers to: E01BCU

Goose Control:E01BCUMeasurement/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BCU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E01BCUMeasurement/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E01BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Internal Address
E01PIULD0/LLN0	-

Table 204. Subscribers to: E01BCU

Subscribers to: E01BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
E01PIULD0/LLN0	-

Table 205. Subscribers to: E01BCU

Goose Control:E02BCUMeasurement/LLN0.GCB.GoCB01

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E02BCUMeasurement/LLN0GoCB01
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E02BCUBreakerFailure/RBRF1.OpEx.general[ST]	Internal Address
E06PIULD0/LLN0	-
E01PIULD0/LLN0	-
E03PIULD0/LLN0	-
E04PIULD0/LLN0	-

Table 206. Subscribers to: E02BCU

Subscribers to: E02BCUBreakerFailure/RBRF1.OpIn.general[ST]	Internal Address
E02PIUQA0Interface/QA0.XCBR.1	-

Table 207. Subscribers to: E02BCU

Goose Control:E02BCUMeasurement/LLN0.GCB.GoCB02

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00

Attribute	Value	Attribute	Value	Attribute	Value
Logical Device	Measurement	DataSet Description	-	Goose appID	E02BCUMeasurement/ LLN0GoCB02
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E02BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Internal Address
E02PIUQA0Interface/QA0.XCBR.1	-

Table 208. Subscribers to: E02BCU

Subscribers to: E02BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
E02PIUQA0Interface/QA0.XCBR.1	-

Table 209. Subscribers to: E02BCU

Goose Control:E02BCUMeasurement/LLN0.GCB.GoCB03

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E02BCUMeasurement/ LLN0GoCB03
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E02BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Internal Address
E02PIUQB1Interface/QB1.XSWI.1	-

Table 210. Subscribers to: E02BCU

Subscribers to: E02BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
E02PIUQB1Interface/QB1.XSWI.1	-

Table 211. Subscribers to: E02BCU

Goose Control:E02PIUTrip/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02PIU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Trip	DataSet Description	-	Goose appID	E02PIUTrip/LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E02PIUTrip/TripPTRC1.Tr.general[ST]	Internal Address
No subscriber for this data	NA

Table 212. Subscribers to: E02PIU

Goose Control:E02PIUTrip/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02PIU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	Trip	DataSet Description	-	Goose appID	E02PIUTrip/LLN0gcb_l1

Attribute	Value	Attribute	Value	Attribute	Value
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E02PIUQA0Interface/QA0XCBR1.Pos.stVal[ST]	Internal Address
No subscriber for this data	NA

Table 213. Subscribers to: E02PIU

Goose Control:E02PIUTrip/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02PIU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	Trip	DataSet Description	-	Goose appID	E02PIUTrip/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E02PIUQB1Interface/QB1XSWI1.Pos.stVal[ST]	Internal Address
No subscriber for this data	NA

Table 214. Subscribers to: E02PIU

Goose Control:E01BPULD0/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BPU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E01BPULD0/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E01BPULD0/DISPTRC1.Op.general[ST]	Internal Address
E01PIULD0/LLN0	-

Table 215. Subscribers to: E01BPU

Goose Control:E02BPUDifferential/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BPU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Differential	DataSet Description	-	Goose appID	E02BPUDifferential/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E02BPUDifferential/PDIF1.Op.general[ST]	Internal Address
E02PIUTrip/Trip.PTRC.1	-

Table 216. Subscribers to: E02BPU

Goose Control:E02BUPOvercurrent/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BUP	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Overcurrent	DataSet Description	-	Goose appID	E02BUPOvercurrent/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E02BUPOvercurrent/PHPTOC1.Op.general[ST]	Internal Address
E02PIUTrip/Trip.PTRC.1	-

Table 217. Subscribers to: E02BUP

Goose Control:E03PIULD0/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03PIU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E03PIULD0/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E03PIULD0/TripPTRC1.Tr.general[ST]	Internal Address
E03BCUBreakerFailure1/RBRF.1	-

Table 218. Subscribers to: E03PIU

Goose Control:E03PIULD0/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03PIU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E03PIULD0/LLN0gcb_l1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E03PIUQA0Interface/QA0XCBR1.Pos.stVal[ST]	Internal Address
E03BCUQA0Control/QA0.CSWI.2	-

Table 219. Subscribers to: E03PIU

Goose Control:E03PIULD0/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03PIU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E03PIULD0/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E03PIUQB1Interface/QB1XSWI1.Pos.stVal[ST]	Internal Address
E03BCUQB1Control/QB1.CSWI.1	-

Table 220. Subscribers to: E03PIU

Goose Control:E03BUPSystem/LLN0.GCB.gcb01

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BUP	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	System	DataSet Description	-	Goose appID	E03BUPSystem/ LLN0gcb01
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E03BUPOvercurrent/PHPTOC1.Op.general[ST]	Internal Address
E03PIULD0/LLN0	-

Table 221. Subscribers to: E03BUP

Goose Control:E03BCUMeasurement/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E03BCUMeasurement/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E03BCUBreakerFailure1/RBRF1.OpEx.general[ST]	Internal Address
E05PIUQA0Interface/QA0.XCBBR.1	-
E02PIUQA0Interface/QA0.XCBBR.1	-

Table 222. Subscribers to: E03BCU

Subscribers to: E03BCUBreakerFailure1/RBRF1.OpIn.general[ST]	Internal Address
E03PIULD0/LLN0	-

Table 223. Subscribers to: E03BCU

Goose Control:E03BCUMeasurement/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E03BCUMeasurement/ LLN0gcb_l1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E03BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Internal Address
E03PIULD0/LLN0	-

Table 224. Subscribers to: E03BCU

Subscribers to: E03BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
E03PIULD0/LLN0	-

Table 225. Subscribers to: E03BCU

Goose Control:E03BCUMeasurement/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E03BCUMeasurement/ LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E03BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Internal Address
E03PIULD0/LLN0	-

Table 226. Subscribers to: E03BCU

Subscribers to: E03BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
E03PIULD0/LLN0	-

Table 227. Subscribers to: E03BCU

Goose Control:E04BPULD0/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BPU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E04BPULD0/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E04BPULD0/DISPTRC1.Op.general[ST]	Internal Address
E04PIULD0/LLN0	-

Table 228. Subscribers to: E04BPU

Goose Control:E04PIULD0/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04PIU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E04PIULD0/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E04PIULD0/TripPTRC1.Tr.general[ST]	Internal Address
E04BCUBreakerFailure1/RBRF.1	-

Table 229. Subscribers to: E04PIU

Goose Control:E04PIULD0/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04PIU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E04PIULD0/LLN0gcb_l1

Attribute	Value	Attribute	Value	Attribute	Value
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E04PIUQA0Interface/QA0XCBR1.Pos.stVal[ST]	Internal Address
E04BCUQA0Control/QA0.CSWI.2	-

Table 230. Subscribers to: E04PIU

Goose Control:E04PIULD0/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04PIU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E04PIULD0/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E04PIUQB1Interface/QB1XSWI1.Pos.stVal[ST]	Internal Address
E04BCUQB1Control/QB1.CSWI.1	-

Table 231. Subscribers to: E04PIU

Goose Control:E04BUPSystem/LLN0.GCB.gcb01

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BUP	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	System	DataSet Description	-	Goose appID	E04BUPSystem/ LLN0gcb01
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E04BUPOvercurrent/PHPTOC1.Op.general[ST]	Internal Address
E04PIULD0/LLN0	-

Table 232. Subscribers to: E04BUP

Goose Control:E04BCUMeasurement/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BCU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E04BCUMeasurement/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E04BCUBreakerFailure1/RBRF1.OpEx.general[ST]	Internal Address
E05PIUQA0Interface/QA0.XCBB.1	-
E02PIUQA0Interface/QA0.XCBB.1	-

Table 233. Subscribers to: E04BCU

Subscribers to: E04BCUBreakerFailure1/RBRF1.OpIn.general[ST]	Internal Address
E04PIULD0/LLN0	-

Table 234. Subscribers to: E04BCU

Goose Control:E04BCUMeasurement/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BCU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E04BCUMeasurement/LLN0gcb_l1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E04BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Internal Address
E04PIULD0/LLN0	-

Table 235. Subscribers to: E04BCU

Subscribers to: E04BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
E04PIULD0/LLN0	-

Table 236. Subscribers to: E04BCU

Goose Control:E04BCUMeasurement/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BCU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E04BCUMeasurement/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E04BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Internal Address
E04PIULD0/LLN0	-

Table 237. Subscribers to: E04BCU

Subscribers to: E04BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
E04PIULD0/LLN0	-

Table 238. Subscribers to: E04BCU

Goose Control:E05BPUDifferential/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BPU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Differential	DataSet Description	-	Goose appID	E05BPUDifferential/LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E05BPUDifferential/PDIF1.Op.general[ST]	Internal Address
E05PIUTrip/Trip.PTRC.1	-

Table 239. Subscribers to: E05BPU

Goose Control:E05BUPOvercurrent/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BUP	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Overcurrent	DataSet Description	-	Goose appID	E05BUPOvercurrent/LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E05BUPOvercurrent/PHPTOC1.Op.general[ST]	Internal Address
E05PIUTrip/Trip.PTRC.1	-

Table 240. Subscribers to: E05BUP

Goose Control:E05PIUTrip/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05PIU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Trip	DataSet Description	-	Goose appID	E05PIUTrip/LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E05PIUTrip/TripPTRC1.Tr.general[ST]	Internal Address
No subscriber for this data	NA

Table 241. Subscribers to: E05PIU

Goose Control:E05PIUTrip/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05PIU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	Trip	DataSet Description	-	Goose appID	E05PIUTrip/LLN0gcb_l1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E05PIUQA0Interface/QA0XCBR1.Pos.stVal[ST]	Internal Address
No subscriber for this data	NA

Table 242. Subscribers to: E05PIU

Goose Control:E05PIUTrip/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05PIU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	Trip	DataSet Description	-	Goose appID	E05PIUTrip/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000

Attribute	Value	Attribute	Value	Attribute	Value
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E05PIUQB1Interface/QB1XSWI1.Pos.stVal[ST]	Internal Address
No subscriber for this data	NA

Table 243. Subscribers to: E05PIU

Goose Control:E05BCUMeasurement/LLN0.GCB.GoCB01

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E05BCUMeasurement/ LLN0GoCB01
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E05BCUBreakerFailure/RBRF1.OpEx.general[ST]	Internal Address
E06PIULD0/LLN0	-
E01PIULD0/LLN0	-
E03PIULD0/LLN0	-
E04PIULD0/LLN0	-

Table 244. Subscribers to: E05BCU

Subscribers to: E05BCUBreakerFailure/RBRF1.OpIn.general[ST]	Internal Address
E05PIUQA0Interface/QA0.XCBR.1	-

Table 245. Subscribers to: E05BCU

Goose Control:E05BCUMeasurement/LLN0.GCB.GoCB02

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	DataSet	ds_gcb_11	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E05BCUMeasurement/ LLN0GoCB02
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E05BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Internal Address
E05PIUQA0Interface/QA0.XCBR.1	-

Table 246. Subscribers to: E05BCU

Subscribers to: E05BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
E05PIUQA0Interface/QA0.XCBR.1	-

Table 247. Subscribers to: E05BCU

Goose Control:E05BCUMeasurement/LLN0.GCB.GoCB03

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	DataSet	ds_gcb_12	MAC Address	01-0C-CD-01-00-00

Attribute	Value	Attribute	Value	Attribute	Value
Logical Device	Measurement	DataSet Description	-	Goose appID	E05BCUMeasurement/ LLN0GoCB03
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E05BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Internal Address
E05PIUQB1Interface/QB1.XSWI.1	-

Table 248. Subscribers to: E05BCU

Subscribers to: E05BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
E05PIUQB1Interface/QB1.XSWI.1	-

Table 249. Subscribers to: E05BCU

Goose Control:E06BPULD0/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BPU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E06BPULD0/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E06BPULD0/DISPTRC1.Op.general[ST]	Internal Address
E06PIULD0/LLN0	-

Table 250. Subscribers to: E06BPU

Goose Control:E06PIULD0/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06PIU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E06PIULD0/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E06PIULD0/TripPTRC1.Tr.general[ST]	Internal Address
E06BCUBreakerFailure1/RBRF.1	-

Table 251. Subscribers to: E06PIU

Goose Control:E06PIULD0/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06PIU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E06PIULD0/LLN0gcb_l1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E06PIUQA0Interface/QA0XCBR1.Pos.stVal[ST]	Internal Address
E06BCUQA0Control/QA0.CSWI.2	-

Table 252. Subscribers to: E06PIU

Goose Control:E06PIULD0/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06PIU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E06PIULD0/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E06PIUQB1Interface/QB1XSWI1.Pos.stVal[ST]	Internal Address
E06BCUQB1Control/QB1.CSWI.1	-

Table 253. Subscribers to: E06PIU

Goose Control:E06BUPSystem/LLN0.GCB.gcb01

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BUP	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	System	DataSet Description	-	Goose appID	E06BUPSystem/ LLN0gcb01
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E06BUPOvercurrent/PHPTOC1.Op.general[ST]	Internal Address
E06PIULD0/LLN0	-

Table 254. Subscribers to: E06BUP

Goose Control:E06BCUMeasurement/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E06BCUMeasurement/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E06BCUBreakerFailure1/RBRF1.OpEx.general[ST]	Internal Address
E05PIUQA0Interface/QA0.XCBR.1	-
E02PIUQA0Interface/QA0.XCBR.1	-

Table 255. Subscribers to: E06BCU

Subscribers to: E06BCUBreakerFailure1/RBRF1.OpIn.general[ST]	Internal Address
E06PIULD0/LLN0	-

Table 256. Subscribers to: E06BCU

Goose Control:E06BCUMeasurement/LLN0.GCB.gcb_l1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	DataSet	ds_gcb_11	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E06BCUMeasurement/ LLN0gcb_11
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E06BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Internal Address
E06PIULD0/LLN0	-

Table 257. Subscribers to: E06BCU

Subscribers to: E06BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
E06PIULD0/LLN0	-

Table 258. Subscribers to: E06BCU

Goose Control:E06BCUMeasurement/LLN0.GCB.gcb_12

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	DataSet	ds_gcb_12	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E06BCUMeasurement/ LLN0gcb_12
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E06BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Internal Address
E06PIULD0/LLN0	-

Table 259. Subscribers to: E06BCU

Subscribers to: E06BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
E06PIULD0/LLN0	-

Table 260. Subscribers to: E06BCU

Goose Control:E03BPULD0/LLN0.GCB.gcb_f1

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BPU	DataSet	ds_gcb_f1	MAC Address	01-0C-CD-01-00-00
Logical Device	LD0	DataSet Description	-	Goose appID	E03BPULD0/ LLN0gcb_f1
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E03BPULD0/DISPTRC1.Op.general[ST]	Internal Address
E03PIULD0/LLN0	-

Table 261. Subscribers to: E03BPU

4.3.4. Sampled Values Messages

Publisher	SMV Control Block	SMV Subscribers
E01PIU	smvcba	E01BCU, E01BUP, E01BPU
E02PIU	smvcba	E02BPU, E02BUP

Publisher	SMV Control Block	SMV Subscribers
E03PIU	smvcba	E03BCU, E03BUP, E03BPU
E04PIU	smvcba	E04BPU, E04BCU, E04BUP
E05PIU	smvcba	E05BPU, E05BUP
E06PIU	smvcba	E06BUP, E06BPU, E06BCU

Table 262. SMV Streams Overview

SMV Stream Details

SMV Control BlockE01PIULD0/LLN0.SVCB.smvcba

Helinks default SMV Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01PIU	DataSet	ds_smvcba	MAC Address	01-0C-CD-04-01-FF
Logical Device	LD0	DataSet Desc.	-	Configuration Revision	10000
SMV ID	E01PIULD0/LLN0smvcba	VLAN ID	000	APPID	4000
VLAN Prio.	4	Nr. of ASDU	1	Sample Mode	SmpPerPeriod
Sample Rate	80	Security Enabled	None	Opt. Time Stamp	false
Opt. DataRef	false	Opt. DataSet	false	Opt. Refresh Time	false
Opt.Sample Rate	false	Opt.Security	false	Opt. Sync. Source ID	false

Table 263. SMV Control Block

Subscriber To E01PIUCTCT/ATCTR1.AmpSv.instMag.i[MX]	Internal Address
E01BCUMeasurement/A.TCTR.5	-
E01BUPSystem/Gos.GGIO.1	-
E01BPULD0/LLN0	-

Table 264. Subscriber To E01PIU

Subscriber To E01PIUCTCT/BTCTR2.AmpSv.instMag.f[MX]	Internal Address
E01BCUMeasurement/B.TCTR.1	-
E01BUPSystem/Gos.GGIO.1	-
E01BPULD0/LLN0	-

Table 265. Subscriber To E01PIU

Subscriber To E01PIUCTCT/CTCTR3.AmpSv.instMag.i[MX]	Internal Address
E01BCUMeasurement/C.TCTR.4	-
E01BUPSystem/Gos.GGIO.1	-
E01BPULD0/LLN0	-

Table 266. Subscriber To E01PIU

Subscriber To E01PIUCTCT/NTCTR4.AmpSv.instMag.i[MX]	Internal Address
E01BCUMeasurement/N.TCTR.6	-
E01BUPSystem/Gos.GGIO.1	-
E01BPULD0/LLN0	-

Table 267. Subscriber To E01PIU

Subscriber To E01PIUVTVT/ATVTR1.VolSv.instMag.i[MX]	Internal Address
E01BCUMeasurement/A.TVTR.2	-
E01BPULD0/LLN0	-

Table 268. Subscriber To E01PIU

Subscriber To E01PIUVTVT/BTVTR2.VolSv.instMag.i[MX]	Internal Address
E01BCUMeasurement/B.TVTR.12	-
E01BPULD0/LLN0	-

Table 269. Subscriber To E01PIU

Subscriber To E01PIUVTVT/CTVTR3.VolSv.instMag.i[MX]	Internal Address
E01BCUMeasurement/C.TVTR.14	-
E01BPULD0/LLN0	-

Table 270. Subscriber To E01PIU

Subscriber To E01PIUVTVT/NTVTR4.VolSv.instMag.i[MX]	Internal Address
E01BCUMeasurement/N.TVTR.3	-
E01BPULD0/LLN0	-

Table 271. Subscriber To E01PIU

SMV Control BlockE02PIUTrip/LLN0.SVCB.smvcba

Helinks default SMV Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02PIU	DataSet	ds_smvcba	MAC Address	01-0C-CD-04-01-FF
Logical Device	Trip	DataSet Desc.	-	Configuration Revision	10000
SMV ID	E02PIUTrip/LLN0smvcba	VLAN ID	000	APPID	4000
Vlan Prio.	4	Nr. of ASDU	1	Sample Mode	SmpPerPeriod
Sample Rate	80	Security Enabled	None	Opt. Time Stamp	false
Opt. DataRef	false	Opt. DataSet	false	Opt. Refresh Time	false
Opt.Sample Rate	false	Opt.Security	false	Opt. Sync. Source ID	false

Table 272. SMV Control Block

Subscriber To E02PIUCTCT/ATCTR1.AmpSv.instMag.i[MX]	Internal Address
E02BPUDifferential/A.TCTR.2	-
E02BUPOvercurrent/A.TCTR.5	-

Table 273. Subscriber To E02PIU

Subscriber To E02PIUCTCT/BTCTR2.AmpSv.instMag.f[MX]	Internal Address
E02BPUDifferential/B.TCTR.3	-
E02BUPOvercurrent/B.TCTR.1	-

Table 274. Subscriber To E02PIU

Subscriber To E02PIUCTCT/CTCTR3.AmpSv.instMag.i[MX]	Internal Address
E02BPUDifferential/C.TCTR.1	-
E02BUPOvercurrent/C.TCTR.4	-

Table 275. Subscriber To E02PIU

Subscriber To E02PIUCTCT/NTCTR4.AmpSv.instMag.i[MX]	Internal Address
E02BPUDifferential/N.TCTR.4	-
E02BUPOvercurrent/N.TCTR.6	-

Table 276. Subscriber To E02PIU

Subscriber To E02PIUVTVT/ATVTR1.VolSv.instMag.i[MX]	Internal Address
No subscriber for this data	NA

Table 277. Subscriber To E02PIU

Subscriber To E02PIUVTVT/BTVTR2.VolSv.instMag.i[MX]	Internal Address
No subscriber for this data	NA

Table 278. Subscriber To E02PIU

Subscriber To E02PIUVTVT/CTVTR3.VolSv.instMag.i[MX]	Internal Address
No subscriber for this data	NA

Table 279. Subscriber To E02PIU

Subscriber To E02PIUVTVT/NTVTR4.VolSv.instMag.i[MX]	Internal Address
No subscriber for this data	NA

Table 280. Subscriber To E02PIU

SMV Control BlockE03PIULD0/LLN0.SVCB.smvcba

Helinks default SMV Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03PIU	DataSet	ds_smvcba	MAC Address	01-0C-CD-04-01-FF
Logical Device	LD0	DataSet Desc.	-	Configuration Revision	10000
SMV ID	E03PIULD0/LLN0smvcba	VLAN ID	000	APPID	4000
Vlan Prio.	4	Nr. of ASDU	1	Sample Mode	SmpPerPeriod
Sample Rate	80	Security Enabled	None	Opt. Time Stamp	false
Opt. DataRef	false	Opt. DataSet	false	Opt. Refresh Time	false
Opt.Sample Rate	false	Opt.Security	false	Opt. Sync. Source ID	false

Table 281. SMV Control Block

Subscriber To E03PIUCTCT/ATCTR1.AmpSv.instMag.i[MX]	Internal Address
E03BCUMeasurement/A.TCTR.5	-
E03BUPSystem/Gos.GGIO.1	-
E03BPULD0/LLN0	-

Table 282. Subscriber To E03PIU

Subscriber To E03PIUCTCT/BTCTR2.AmpSv.instMag.f[MX]	Internal Address
E03BCUMeasurement/B.TCTR.1	-
E03BUPSystem/Gos.GGIO.1	-
E03BPULD0/LLN0	-

Table 283. Subscriber To E03PIU

Subscriber To E03PIUCTCT/CTCTR3.AmpSv.instMag.i[MX]	Internal Address
E03BCUMeasurement/C.TCTR.4	-

Subscriber To E03PIUCTCT/CTCTR3.AmpSv.instMag.i[MX]	Internal Address
E03BUPSystem/Gos.GGIO.1	-
E03BPULD0/LLN0	-

Table 284. Subscriber To E03PIU

Subscriber To E03PIUCTCT/NTCTR4.AmpSv.instMag.i[MX]	Internal Address
E03BCUMeasurement/N.TCTR.6	-
E03BUPSystem/Gos.GGIO.1	-
E03BPULD0/LLN0	-

Table 285. Subscriber To E03PIU

Subscriber To E03PIUVTVT/ATVTR1.VolSv.instMag.i[MX]	Internal Address
E03BCUMeasurement/A.TVTR.2	-
E03BPULD0/LLN0	-

Table 286. Subscriber To E03PIU

Subscriber To E03PIUVTVT/BTVTR2.VolSv.instMag.i[MX]	Internal Address
E03BCUMeasurement/B.TVTR.12	-
E03BPULD0/LLN0	-

Table 287. Subscriber To E03PIU

Subscriber To E03PIUVTVT/CTVTR3.VolSv.instMag.i[MX]	Internal Address
E03BCUMeasurement/C.TVTR.14	-
E03BPULD0/LLN0	-

Table 288. Subscriber To E03PIU

Subscriber To E03PIUVTVT/NTVTR4.VolSv.instMag.i[MX]	Internal Address
E03BCUMeasurement/N.TVTR.3	-
E03BPULD0/LLN0	-

Table 289. Subscriber To E03PIU

SMV Control BlockE04PIULD0/LLN0.SVCB.smvcba

Helinks default SMV Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04PIU	DataSet	ds_smvcba	MAC Address	01-0C-CD-04-01-FF
Logical Device	LD0	DataSet Desc.	-	Configuration Revision	10000
SMV ID	E04PIULD0/LLN0smvcba	VLAN ID	000	APPID	4000
Vlan Prio.	4	Nr. of ASDU	1	Sample Mode	SmpPerPeriod
Sample Rate	80	Security Enabled	None	Opt. Time Stamp	false
Opt. DataRef	false	Opt. DataSet	false	Opt. Refresh Time	false
Opt.Sample Rate	false	Opt.Security	false	Opt. Sync. Source ID	false

Table 290. SMV Control Block

Subscriber To E04PIUCTCT/ATCTR1.AmpSv.instMag.i[MX]	Internal Address
E04BPULD0/LLN0	-
E04BCUMeasurement/A.TCTR.5	-

Subscriber To E04PIUCTCT/ATCTR1.AmpSv.instMag.i[MX]	Internal Address
E04BUPSystem/Gos.GGIO.1	-

Table 291. Subscriber To E04PIU

Subscriber To E04PIUCTCT/BTCTR2.AmpSv.instMag.f[MX]	Internal Address
E04BPULD0/LLN0	-
E04BCUMeasurement/B.TCTR.1	-
E04BUPSystem/Gos.GGIO.1	-

Table 292. Subscriber To E04PIU

Subscriber To E04PIUCTCT/CTCTR3.AmpSv.instMag.i[MX]	Internal Address
E04BPULD0/LLN0	-
E04BCUMeasurement/C.TCTR.4	-
E04BUPSystem/Gos.GGIO.1	-

Table 293. Subscriber To E04PIU

Subscriber To E04PIUCTCT/NTCTR4.AmpSv.instMag.i[MX]	Internal Address
E04BPULD0/LLN0	-
E04BCUMeasurement/N.TCTR.6	-
E04BUPSystem/Gos.GGIO.1	-

Table 294. Subscriber To E04PIU

Subscriber To E04PIUVTVT/ATVTR1.VolSv.instMag.i[MX]	Internal Address
E04BPULD0/LLN0	-
E04BCUMeasurement/A.TVTR.2	-

Table 295. Subscriber To E04PIU

Subscriber To E04PIUVTVT/BTVTR2.VolSv.instMag.i[MX]	Internal Address
E04BPULD0/LLN0	-
E04BCUMeasurement/B.TVTR.12	-

Table 296. Subscriber To E04PIU

Subscriber To E04PIUVTVT/CTVTR3.VolSv.instMag.i[MX]	Internal Address
E04BPULD0/LLN0	-
E04BCUMeasurement/C.TVTR.14	-

Table 297. Subscriber To E04PIU

Subscriber To E04PIUVTVT/NTVTR4.VolSv.instMag.i[MX]	Internal Address
E04BPULD0/LLN0	-
E04BCUMeasurement/N.TVTR.3	-

Table 298. Subscriber To E04PIU

SMV Control BlockE05PIUTrip/LLN0.SVCB.smvcba

Helinks default SMV Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05PIU	DataSet	ds_smvcba	MAC Address	01-0C-CD-04-01-FF
Logical Device	Trip	DataSet Desc.	-	Configuration Revision	10000
SMV ID	E05PIUTrip/LLN0smvcba	VLAN ID	000	APPID	4000

Attribute	Value	Attribute	Value	Attribute	Value
VLAN Prio.	4	Nr. of ASDU	1	Sample Mode	SmpPerPeriod
Sample Rate	80	Security Enabled	None	Opt. Time Stamp	false
Opt. DataRef	false	Opt. DataSet	false	Opt. Refresh Time	false
Opt. Sample Rate	false	Opt. Security	false	Opt. Sync. Source ID	false

Table 299. SMV Control Block

Subscriber To E05PIUCTCT/ATCTR1.AmpSv.instMag.i[MX]	Internal Address
E05BPUDifferential/A.TCTR.2	-
E05BUPOvercurrent/A.TCTR.5	-

Table 300. Subscriber To E05PIU

Subscriber To E05PIUCTCT/BTCTR2.AmpSv.instMag.f[MX]	Internal Address
E05BPUDifferential/B.TCTR.3	-
E05BUPOvercurrent/B.TCTR.1	-

Table 301. Subscriber To E05PIU

Subscriber To E05PIUCTCT/CTCTR3.AmpSv.instMag.i[MX]	Internal Address
E05BPUDifferential/C.TCTR.1	-
E05BUPOvercurrent/C.TCTR.4	-

Table 302. Subscriber To E05PIU

Subscriber To E05PIUCTCT/NTCTR4.AmpSv.instMag.i[MX]	Internal Address
E05BPUDifferential/N.TCTR.4	-
E05BUPOvercurrent/N.TCTR.6	-

Table 303. Subscriber To E05PIU

Subscriber To E05PIUVTVT/ATVTR1.VolSv.instMag.i[MX]	Internal Address
No subscriber for this data	NA

Table 304. Subscriber To E05PIU

Subscriber To E05PIUVTVT/BTVTR2.VolSv.instMag.i[MX]	Internal Address
No subscriber for this data	NA

Table 305. Subscriber To E05PIU

Subscriber To E05PIUVTVT/CTVTR3.VolSv.instMag.i[MX]	Internal Address
No subscriber for this data	NA

Table 306. Subscriber To E05PIU

Subscriber To E05PIUVTVT/NTVTR4.VolSv.instMag.i[MX]	Internal Address
No subscriber for this data	NA

Table 307. Subscriber To E05PIU

SMV Control BlockE06PIULD0/LLN0.SVCB.smvcba

Helinks default SMV Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06PIU	DataSet	ds_smvcba	MAC Address	01-0C-CD-04-01-FF
Logical Device	LD0	DataSet Desc.	-	Configuration Revision	10000

Attribute	Value	Attribute	Value	Attribute	Value
SMV ID	E06PIULD0/ LLN0smvcba	VLAN ID	000	APPID	4000
Vlan Prio.	4	Nr. of ASDU	1	Sample Mode	SmpPerPeriod
Sample Rate	80	Security Enabled	None	Opt. Time Stamp	false
Opt. DataRef	false	Opt. DataSet	false	Opt. Refresh Time	false
Opt.Sample Rate	false	Opt.Security	false	Opt. Sync. Source ID	false

Table 308. SMV Control Block

Subscriber To E06PIUCTCT/ATCTR1.AmpSv.instMag.i[MX]	Internal Address
E06BUPSystem/Gos.GGIO.1	-
E06BPULD0/LLN0	-
E06BCUMeasurement/A.TCTR.5	-

Table 309. Subscriber To E06PIU

Subscriber To E06PIUCTCT/BTCTR2.AmpSv.instMag.i[MX]	Internal Address
E06BUPSystem/Gos.GGIO.1	-
E06BPULD0/LLN0	-
E06BCUMeasurement/B.TCTR.1	-

Table 310. Subscriber To E06PIU

Subscriber To E06PIUCTCT/CTCTR3.AmpSv.instMag.i[MX]	Internal Address
E06BUPSystem/Gos.GGIO.1	-
E06BPULD0/LLN0	-
E06BCUMeasurement/C.TCTR.4	-

Table 311. Subscriber To E06PIU

Subscriber To E06PIUCTCT/NTCTR4.AmpSv.instMag.i[MX]	Internal Address
E06BUPSystem/Gos.GGIO.1	-
E06BPULD0/LLN0	-
E06BCUMeasurement/N.TCTR.6	-

Table 312. Subscriber To E06PIU

Subscriber To E06PIUVTVT/ATVTR1.VolSv.instMag.i[MX]	Internal Address
E06BPULD0/LLN0	-
E06BCUMeasurement/A.TVTR.2	-

Table 313. Subscriber To E06PIU

Subscriber To E06PIUVTVT/BTVTR2.VolSv.instMag.i[MX]	Internal Address
E06BPULD0/LLN0	-
E06BCUMeasurement/B.TVTR.12	-

Table 314. Subscriber To E06PIU

Subscriber To E06PIUVTVT/CTVTR3.VolSv.instMag.i[MX]	Internal Address
E06BPULD0/LLN0	-
E06BCUMeasurement/C.TVTR.14	-

Table 315. Subscriber To E06PIU

Subscriber To E06PIUVTVT/NTVTR4.VolSv.instMag.i[MX]	Internal Address
E06BPULD0/LLN0	-
E06BCUMeasurement/N.TVTR.3	-

Table 316. Subscriber To E06PIU