

IEC61850WeekDemo



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1. SCD History

Revision	Version	What	When	Who	Why
R000	V1	Starting Point	Mon Oct 17 10:40:19 CEST 2022	JR	Demo Cardiff
R001	V1	Instantiate Applications	Mon Oct 17 10:46:32 CEST 2022	JR	Demo Cardiff
R002	V1	Instantiate Bays	Mon Oct 17 12:20:55 CEST 2022	JR	Demo Cardiff
R003	V1	Add IEDs	Mon Oct 17 12:32:48 CEST 2022	JR	Demo Cardiff
R004	V1	Allocate IEDs and Logical	Mon Oct 17 13:04:18 CEST 2022	JR	Demo Cardiff

Table 1. SCD History

2. General Specification

3. IEC61850WeekDemo Single Line and Functions

3.1. Cardiff

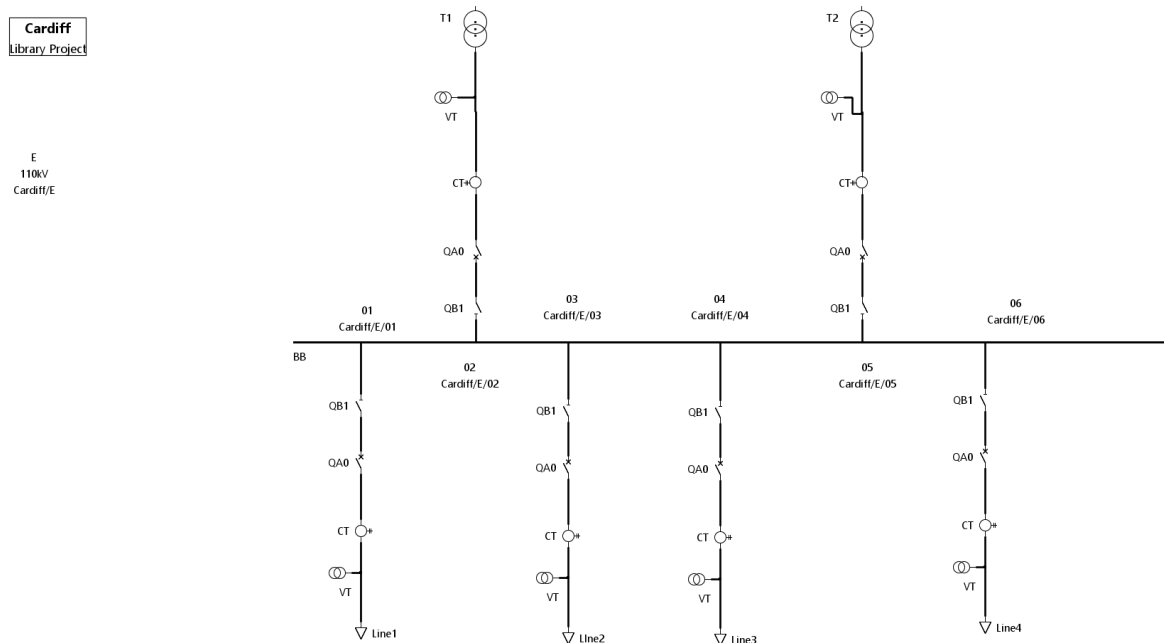


Figure 1. Single Line

3.2. Application Schemes

Instance details

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

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

Table 2. GOOSE Message :Slow GOOSE Priority: Low

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

Table 3. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Close	Cardiff/E/02/QA0	QA0CSWI2.OpCls.general[ST]	Cardiff/E/02/QA0/Interface	QA0.XCBR.1

Table 4. 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]	GCb_11	E02BCU	Master.GGIO	
OpOpn.general[ST]	E02BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	GCb_03	E02PIU	QA0Interface.XCBR	
OpCls.general[ST]	E02BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	GCb_03	E02PIU	QA0Interface.XCBR	

Table 5. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

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

Table 6. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E03PIU	null.QA0XCBR1.Pos.stVal[ST]		E03BCU	QA0Control.CSWI	
OpOpn.general[ST]	E03BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	GCb_11			
OpCls.general[ST]	E03BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	GCb_11			

Table 7. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

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

Table 8. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E04PIU	null.QA0XCBR1.Pos.stVal[ST]		E04BCU	QA0Control.CSWI	
OpOpn.general[ST]	E04BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	GCb_11			
OpCls.general[ST]	E04BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	GCb_11			

Table 9. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/05/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/05/QA0/Control	QA0.CSW1.2
Operate Open	Cardiff/E/05/QA0	QA0CSWI2.OpOpn.general[ST]	Cardiff/E/05/QA0/Interface	QA0.XCBR.1
Operate Close	Cardiff/E/05/QA0	QA0CSWI2.OpCls.general[ST]	Cardiff/E/05/QA0/Interface	QA0.XCBR.1

Table 10. 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]	QCB_11	E05BCU	Master.GGIO	
OpOpn.general[ST]	E05BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	QCB_03	E05PIU	QA0Interface.XCBR	
OpCls.general[ST]	E05BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	QCB_03	E05PIU	QA0Interface.XCBR	

Table 11. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/06/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/06/QA0/Control	QA0.CSW1.2
Operate Open	Cardiff/E/06/QA0	QA0CSWI2.OpOpn.general[ST]	Cardiff/E/06/QA0/Interface	QA0.XCBR.1
Operate Close	Cardiff/E/06/QA0	QA0CSWI2.OpCls.general[ST]	Cardiff/E/06/QA0/Interface	QA0.XCBR.1

Table 12. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E06PIU	null.QA0XCBR1.Pos.stVal[ST]		E06BCU	QA0Control.CSWI	
OpOpn.general[ST]	E06BCU	QA0Control.QA0CSWI2.OpOpn.general[ST]	QCB_11			
OpCls.general[ST]	E06BCU	QA0Control.QA0CSWI2.OpCls.general[ST]	QCB_11			

Table 13. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/01/QB1	QB1XSWI1.Pos.stVal[ST]	Cardiff/E/01/QB1/Control	QB1.CSW1.1
Operate Open	Cardiff/E/01/QB1	QB1CSWI1.OpOpn.general[ST]	Cardiff/E/01/QB1/Interface	QB1.XSWI.1
Operate Close	Cardiff/E/01/QB1	QB1CSWI1.OpCls.general[ST]	Cardiff/E/01/QB1/Interface	QB1.XSWI.1

Table 14. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E01PIU	null.QB1XSWI1.Pos.stVal[ST]		E01BCU	QB1Control.CSWI	
OpOpn.general[ST]	E01BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	QCB_12	E01PIU	null.null	
OpCls.general[ST]	E01BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	QCB_12	E01PIU	null.null	

Table 15. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

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

Table 16. 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]	GCB04	E02BCU	Master.GGIO	
OpOpn.general[ST]	E02BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	GCB04	E02PIU	QB1Interface.XSWI	
OpCls.general[ST]	E02BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	GCB04	E02PIU	QB1Interface.XSWI	

Table 17. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/01/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/01/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/01/QB1	QB1XSWI1.Pos.stVal[ST]	Cardiff/E/01/QA0/Control	QA0.CSWI.2

Table 18. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E01PIU	null.QB1XSWI1.Pos.stVal[ST]		E01BCU	QA0Control.CSWI	

Table 19. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/02/QB1/Control
- SwitchControl.Interface:hlx_Cardiff/E/02/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Open	Cardiff/E/02/QB1	QB1CSWI1.OpOpn.general[ST]	Cardiff/E/02/QA0/Interface	QA0.XCBR.1
Operate Close	Cardiff/E/02/QB1	QB1CSWI1.OpCls.general[ST]	Cardiff/E/02/QA0/Interface	QA0.XCBR.1

Table 20. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpOpn.general[ST]	E02BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	GCB04	E02PIU	QA0Interface.XCBR	
OpCls.general[ST]	E02BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	GCB04	E02PIU	QA0Interface.XCBR	

Table 21. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/01/QB1/Control
- SwitchControl.Interface:hlx_Cardiff/E/01/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/01/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/01/QB1/Control	QB1.CSW1.1
Operate Open	Cardiff/E/01/QB1	QB1CSW11.OpOpn.general[ST]	Cardiff/E/01/QA0/Interface	QA0.XCBR.1
Operate Close	Cardiff/E/01/QB1	QB1CSW11.OpCls.general[ST]	Cardiff/E/01/QA0/Interface	QA0.XCBR.1

Table 22. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E01PIU	null.QA0XCBR1.Pos.stVal[ST]		E01BCU	QB1Control.CSWI	
OpOpn.general[ST]	E01BCU	QB1Control.QB1CSW11.OpOpn.general[ST]	CB1	E01PIU	null.null	
OpCls.general[ST]	E01BCU	QB1Control.QB1CSW11.OpCls.general[ST]	CB1	E01PIU	null.null	

Table 23. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/01/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/01/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/01/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/01/QA0/Control	QA0.CSW1.2

Table 24. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E01PIU	null.QA0XCBR1.Pos.stVal[ST]		E01BCU	QA0Control.CSWI	

Table 25. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/03/QB1	QB1XSW11.Pos.stVal[ST]	Cardiff/E/03/QB1/Control	QB1.CSW1.1
Operate Open	Cardiff/E/03/QB1	QB1CSW11.OpOpn.general[ST]	Cardiff/E/03/QB1/Interface	QB1.XSW1.1
Operate Close	Cardiff/E/03/QB1	QB1CSW11.OpCls.general[ST]	Cardiff/E/03/QB1/Interface	QB1.XSW1.1

Table 26. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E03PIU	null.QB1XSW11.Pos.stVal[ST]		E03BCU	QB1Control.CSWI	
OpOpn.general[ST]	E03BCU	QB1Control.QB1CSW11.OpOpn.general[ST]	CB1			
OpCls.general[ST]	E03BCU	QB1Control.QB1CSW11.OpCls.general[ST]	CB1			

Table 27. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/03/QB1/Control
- SwitchControl.Interface:hlx_Cardiff/E/03/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/03/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/03/QB1/Control	QB1.CSW1.1

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Open	Cardiff/E/03/QB1	QB1CSWI1.OpOpn.general[ST]	Cardiff/E/03/QA0/Interface	QA0.XCBR.1
Operate Close	Cardiff/E/03/QB1	QB1CSWI1.OpCls.general[ST]	Cardiff/E/03/QA0/Interface	QA0.XCBR.1

Table 28. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E03PIU	null.QA0XCBR1.Pos.stVal[ST]		E03BCU	QB1Control.CSWI	
OpOpn.general[ST]	E03BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]				
OpCls.general[ST]	E03BCU	QB1Control.QB1CSWI1.OpCls.general[ST]				

Table 29. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/03/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/03/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/03/QB1	QB1XSWI1.Pos.stVal[ST]	Cardiff/E/03/QA0/Control	QA0.CSWI.2

Table 30. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E03PIU	null.QB1XSWI1.Pos.stVal[ST]		E03BCU	QA0Control.CSWI	

Table 31. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/03/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/03/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/03/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/03/QA0/Control	QA0.CSWI.2

Table 32. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E03PIU	null.QA0XCBR1.Pos.stVal[ST]		E03BCU	QA0Control.CSWI	

Table 33. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

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

Table 34. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E04PIU	null.QB1XSWI1.Pos.stVal[ST]		E04BCU	QB1Control.CSWI	
OpOpn.general[ST]	E04BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	CSWI2			
OpCls.general[ST]	E04BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	CSWI2			

Table 35. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/04/QB1/Control
- SwitchControl.Interface:hlx_Cardiff/E/04/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/04/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/04/QB1/Control	QB1.CSWI.1
Operate Open	Cardiff/E/04/QB1	QB1CSWI1.OpOpn.general[ST]	Cardiff/E/04/QA0/Interface	QA0.XCBR.1
Operate Close	Cardiff/E/04/QB1	QB1CSWI1.OpCls.general[ST]	Cardiff/E/04/QA0/Interface	QA0.XCBR.1

Table 36. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E04PIU	null.QA0XCBR1.Pos.stVal[ST]		E04BCU	QB1Control.CSWI	
OpOpn.general[ST]	E04BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	CSWI2			
OpCls.general[ST]	E04BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	CSWI2			

Table 37. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/04/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/04/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/04/QB1	QB1XSWI1.Pos.stVal[ST]	Cardiff/E/04/QA0/Control	QA0.CSWI.2

Table 38. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E04PIU	null.QB1XSWI1.Pos.stVal[ST]		E04BCU	QA0Control.CSWI	

Table 39. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/04/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/04/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/04/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/04/QA0/Control	QA0.CSWI.2

Table 40. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E04PIU	null.QA0XCBR1.Pos.stVal[ST]		E04BCU	QA0Control.CSWI	

Table 41. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

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

Table 42. 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]	QB1CB04	E05BCU	Master.GGIO	
OpOpn.general[ST]	E05BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	QB1CB04	E05PIU	QB1Interface.XSWI	
OpCls.general[ST]	E05BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	QB1CB04	E05PIU	QB1Interface.XSWI	

Table 43. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/05/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/05/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Open	Cardiff/E/05/QB1	QB1CSWI1.OpOpn.general[ST]	Cardiff/E/05/QA0/Interface	QA0.XCBR.1
Operate Close	Cardiff/E/05/QB1	QB1CSWI1.OpCls.general[ST]	Cardiff/E/05/QA0/Interface	QA0.XCBR.1

Table 44. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpOpn.general[ST]	E05BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	QB1CB04	E05PIU	QA0Interface.XCBR	
OpCls.general[ST]	E05BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	QB1CB04	E05PIU	QA0Interface.XCBR	

Table 45. GOOSE Message :Slow GOOSE Priority: Low

Instance details

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

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

Table 46. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E06PIU	null.QB1XSWI1.Pos.stVal[ST]		E06BCU	QB1Control.CSWI	
OpOpn.general[ST]	E06BCU	QB1Control.QB1CSWI1.OpOpn.general[ST]	QB1CB12			
OpCls.general[ST]	E06BCU	QB1Control.QB1CSWI1.OpCls.general[ST]	QB1CB12			

Table 47. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/06/QB1/Control
- SwitchControl.Interface:hlx_Cardiff/E/06/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/06/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/06/QB1/Control	QB1.CSW1.1
Operate Open	Cardiff/E/06/QB1	QB1CSW11.OpOpn.general[ST]	Cardiff/E/06/QA0/Interface	QA0.XCBR.1
Operate Close	Cardiff/E/06/QB1	QB1CSW11.OpCls.general[ST]	Cardiff/E/06/QA0/Interface	QA0.XCBR.1

Table 48. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E06PIU	null.QA0XCBR1.Pos.stVal[ST]		E06BCU	QB1Control.CSWI	
OpOpn.general[ST]	E06BCU	QB1Control.QB1CSW11.OpOpn.general[ST]	ST1			
OpCls.general[ST]	E06BCU	QB1Control.QB1CSW11.OpCls.general[ST]	ST2			

Table 49. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/06/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/06/QB1/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/06/QB1	QB1XSWI1.Pos.stVal[ST]	Cardiff/E/06/QA0/Control	QA0.CSW1.2

Table 50. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E06PIU	null.QB1XSWI1.Pos.stVal[ST]		E06BCU	QA0Control.CSWI	

Table 51. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SwitchControl.Control:hlx_Cardiff/E/06/QA0/Control
- SwitchControl.Interface:hlx_Cardiff/E/06/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Switch Position	Cardiff/E/06/QA0	QA0XCBR1.Pos.stVal[ST]	Cardiff/E/06/QA0/Control	QA0.CSW1.2

Table 52. GOOSE Message :Slow GOOSE Priority: Low

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Pos.stVal[ST]	E06PIU	null.QA0XCBR1.Pos.stVal[ST]		E06BCU	QA0Control.CSWI	

Table 53. GOOSE Message :Slow GOOSE Priority: Low

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/01/Measurement
- SampledMeasurements.Current:hlx_Cardiff/E/01/CT/CT

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Cardiff/E/01/CT	ATCTR1.AmpSv.instMag.i[MX]	Cardiff/E/01/Measurement	A.TCTR.5

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

Table 54. SMV Message :SMV Configuration

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

Table 55. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/01/Distance
- SampledMeasurements.Current:hlx_Cardiff/E/01/CT/CT

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

Table 56. SMV Message :SMV Configuration

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

Table 57. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/01/Overcurrent
- SampledMeasurements.Current:hlx_Cardiff/E/01/CT/CT

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

Table 58. SMV Message :SMV Configuration

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

Table 59. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/01/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/01/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Cardiff/E/01/VT	ATVTR1.VolSv.instMag.i[MX]	Cardiff/E/01/Measurement	A.TVTR.2
U2 sv	Cardiff/E/01/VT	BTVTR2.VolSv.instMag.i[MX]	Cardiff/E/01/Measurement	B.TVTR.12
U3 sv	Cardiff/E/01/VT	CTVTR3.VolSv.instMag.i[MX]	Cardiff/E/01/Measurement	C.TVTR.14
U Neut sv	Cardiff/E/01/VT	NTVTR4.VolSv.instMag.i[MX]	Cardiff/E/01/Measurement	N.TVTR.3

Table 60. SMV Message :SMV Configuration

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

Table 61. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/01/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/01/Distance

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Cardiff/E/01/VT	ATVTR1.VolSv.instMag.i[MX]	Cardiff/E/01/Distance	A.TVTR.7
U2 sv	Cardiff/E/01/VT	BTVTR2.VolSv.instMag.i[MX]	Cardiff/E/01/Distance	B.TVTR.8
U3 sv	Cardiff/E/01/VT	CTVTR3.VolSv.instMag.i[MX]	Cardiff/E/01/Distance	C.TVTR.4
U Neut sv	Cardiff/E/01/VT	NTVTR4.VolSv.instMag.i[MX]	Cardiff/E/01/Distance	N.TVTR.1

Table 62. SMV Message :SMV Configuration

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

Signal Name	Publisher	Data Attribute;	Sampled Value Control Block;	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]	E01PIU	null.NTVTR4.VolSv.instMag.i[MX]		E01BPU	LD0.LLN0	

Table 63. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/02/Measurement
- SampledMeasurements.Current:hlx_Cardiff/E/02/CT/CT

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

Table 64. SMV Message :SMV Configuration

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

Table 65. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/02/Differential
- SampledMeasurements.Current:hlx_Cardiff/E/02/CT/CT

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

Table 66. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute;	Sampled Value Control Block;	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E02PIU	null.ATCTR1.AmpSv.instMag.i[MX]		E02BPU	Differential.TCTR	
AmpSv.instMag.f[MX]	E02PIU	null.BTCTR2.AmpSv.instMag.f[MX]		E02BPU	Differential.TCTR	
AmpSv.instMag.i[MX]	E02PIU	null.CTCTR3.AmpSv.instMag.i[MX]		E02BPU	Differential.TCTR	
AmpSv.instMag.i[MX]	E02PIU	null.NTCTR4.AmpSv.instMag.i[MX]		E02BPU	Differential.TCTR	

Table 67. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/02/Overcurrent
- SampledMeasurements.Current:hlx_Cardiff/E/02/CT/CT

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

Table 68. SMV Message :SMV Configuration

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

Table 69. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/02/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/02/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Cardiff/E/02/VT	ATVTR1.VolSv.instMag.i[MX]	Cardiff/E/02/Measurement	A.TVTR.2
U2 sv	Cardiff/E/02/VT	BTVTR2.VolSv.instMag.i[MX]	Cardiff/E/02/Measurement	B.TVTR.12
U3 sv	Cardiff/E/02/VT	CTVTR3.VolSv.instMag.i[MX]	Cardiff/E/02/Measurement	C.TVTR.14
U Neut sv	Cardiff/E/02/VT	NTVTR4.VolSv.instMag.i[MX]	Cardiff/E/02/Measurement	N.TVTR.3

Table 70. SMV Message :SMV Configuration

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

Table 71. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/03/Measurement
- SampledMeasurements.Current:hlx_Cardiff/E/03/CT/CT

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I1 sv	Cardiff/E/03/CT	ATCTR1.AmpSv.instMag.i[MX]	Cardiff/E/03/Measurement	A.TCTR.5
I2 sv	Cardiff/E/03/CT	BTCTR2.AmpSv.instMag.f[MX]	Cardiff/E/03/Measurement	B.TCTR.1

Signal Name	Sending function	Data	Receiving function	Receiving logical node
I3 sv	Cardiff/E/03/CT	CTCTR3.AmpSv.instMag.i[MX]	Cardiff/E/03/Measurement	C.TCTR.4
I Neut sv	Cardiff/E/03/CT	NTCTR4.AmpSv.instMag.i[MX]	Cardiff/E/03/Measurement	N.TCTR.6

Table 72. SMV Message :SMV Configuration

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

Table 73. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/03/Distance
- SampledMeasurements.Current:hlx_Cardiff/E/03/CT/CT

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

Table 74. SMV Message :SMV Configuration

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

Table 75. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/03/Overcurrent
- SampledMeasurements.Current:hlx_Cardiff/E/03/CT/CT

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

Table 76. SMV Message :SMV Configuration

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

Table 77. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/03/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/03/Measurement

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

Table 78. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute;	Sampled Value Control Block:	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]E03PIU		null.ATVTR1.VolSv.instMag.i[MX]		E03BCU	Measurement.TVTR	
VolSv.instMag.i[MX]E03PIU		null.BTVTR2.VolSv.instMag.i[MX]		E03BCU	Measurement.TVTR	
VolSv.instMag.i[MX]E03PIU		null.CTVTR3.VolSv.instMag.i[MX]		E03BCU	Measurement.TVTR	
VolSv.instMag.i[MX]E03PIU		null.NTVTR4.VolSv.instMag.i[MX]		E03BCU	Measurement.TVTR	

Table 79. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/03/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/03/Distance

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

Table 80. SMV Message :SMV Configuration

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

Signal Name	Publisher	Data Attribute;	Sampled Value Control Block;	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]	E03PIU	null.NTVTR4.VolSv.instMag.i[MX]		E03BPU	LD0.LLN0	

Table 81. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/04/Measurement
- SampledMeasurements.Current:hlx_Cardiff/E/04/CT/CT

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

Table 82. SMV Message :SMV Configuration

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

Table 83. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/04/Distance
- SampledMeasurements.Current:hlx_Cardiff/E/04/CT/CT

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

Table 84. SMV Message :SMV Configuration

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

Table 85. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/04/Overcurrent
- SampledMeasurements.Current:hlx_Cardiff/E/04/CT/CT

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

Table 86. SMV Message :SMV Configuration

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

Table 87. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/04/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/04/Measurement

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Cardiff/E/04/VT	ATVTR1.VolSv.instMag.i[MX]	Cardiff/E/04/Measurement	A.TVTR.2
U2 sv	Cardiff/E/04/VT	BTVTR2.VolSv.instMag.i[MX]	Cardiff/E/04/Measurement	B.TVTR.12
U3 sv	Cardiff/E/04/VT	CTVTR3.VolSv.instMag.i[MX]	Cardiff/E/04/Measurement	C.TVTR.14
U Neut sv	Cardiff/E/04/VT	NTVTR4.VolSv.instMag.i[MX]	Cardiff/E/04/Measurement	N.TVTR.3

Table 88. SMV Message :SMV Configuration

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

Table 89. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/04/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/04/Distance

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Cardiff/E/04/VT	ATVTR1.VolSv.instMag.i[MX]	Cardiff/E/04/Distance	A.TVTR.7
U2 sv	Cardiff/E/04/VT	BTVTR2.VolSv.instMag.i[MX]	Cardiff/E/04/Distance	B.TVTR.8

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U3 sv	Cardiff/E/04/VT	CTVTR3.VolSv.instMag.i[MX]	Cardiff/E/04/Distance	C.TVTR.4
U Neut sv	Cardiff/E/04/VT	NTVTR4.VolSv.instMag.i[MX]	Cardiff/E/04/Distance	N.TVTR.1

Table 90. SMV Message :SMV Configuration

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

Table 91. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/05/Measurement
- SampledMeasurements.Current:hlx_Cardiff/E/05/CT/CT

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

Table 92. SMV Message :SMV Configuration

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

Table 93. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/05/Differential
- SampledMeasurements.Current:hlx_Cardiff/E/05/CT/CT

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

Table 94. SMV Message :SMV Configuration

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

Table 95. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/05/Overcurrent
- SampledMeasurements.Current:hlx_Cardiff/E/05/CT/CT

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

Table 96. SMV Message :SMV Configuration

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

Table 97. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/05/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/05/Measurement

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

Table 98. SMV Message :SMV Configuration

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

Signal Name	Publisher	Data Attribute;	Sampled Value Control Block;	Subscriber	Client LN	Internal Routing
VolSv.instMag.i[MX]	E05PIU	null.NTVTR4.VolSv.instMag.i[MX]		E05BCU	Master.GGIO	

Table 99. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/06/Measurement
- SampledMeasurements.Current:hlx_Cardiff/E/06/CT/CT

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

Table 100. SMV Message :SMV Configuration

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

Table 101. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/06/Distance
- SampledMeasurements.Current:hlx_Cardiff/E/06/CT/CT

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

Table 102. SMV Message :SMV Configuration

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

Table 103. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.CurrentSubscriber:hlx_Cardiff/E/06/Overcurrent
- SampledMeasurements.Current:hlx_Cardiff/E/06/CT/CT

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

Table 104. SMV Message :SMV Configuration

Signal Name	Publisher	Data Attribute;	Sampled Value Control Block;	Subscriber	Client LN	Internal Routing
AmpSv.instMag.i[MX]	E06PIU	null.ATCTR1.AmpSv.instMag.i[MX]		E06BUP	System.GGIO	
AmpSv.instMag.f[MX]	E06PIU	null.BTCTR2.AmpSv.instMag.f[MX]		E06BUP	System.GGIO	
AmpSv.instMag.i[MX]	E06PIU	null.CTCTR3.AmpSv.instMag.i[MX]		E06BUP	System.GGIO	
AmpSv.instMag.i[MX]	E06PIU	null.NTCTR4.AmpSv.instMag.i[MX]		E06BUP	System.GGIO	

Table 105. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/06/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/06/Measurement

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

Table 106. SMV Message :SMV Configuration

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

Table 107. SMV Message :SMV Configuration

Instance details

- SampledMeasurements.Voltage:hlx_Cardiff/E/06/VT/VT
- SampledMeasurements.VoltageSubscriber:hlx_Cardiff/E/06/Distance

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U1 sv	Cardiff/E/06/VT	ATVTR1.VolSv.instMag.i[MX]	Cardiff/E/06/Distance	A.TVTR.7
U2 sv	Cardiff/E/06/VT	BTVTR2.VolSv.instMag.i[MX]	Cardiff/E/06/Distance	B.TVTR.8

Signal Name	Sending function	Data	Receiving function	Receiving logical node
U3 sv	Cardiff/E/06/VT	CTVTR3.VolSv.instMag.i[MX]	Cardiff/E/06/Distance	C.TVTR.4
U Neut sv	Cardiff/E/06/VT	NTVTR4.VolSv.instMag.i[MX]	Cardiff/E/06/Distance	N.TVTR.1

Table 108. SMV Message :SMV Configuration

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

Table 109. SMV Message :SMV Configuration

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Cardiff/E/01	TripPTRC1.Tr.general[ST]	Cardiff/E/01/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]	E01PIU	null.TripPTRC1.Tr.general[ST]		E01BCU	BreakerFailure1.RBRF	

Table 111. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Internal	Cardiff/E/01	RBRF1.OpIn.general[ST]	Cardiff/E/01/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]	E01BCU	BreakerFailure1.RBRF1.OpIn.general[ST]	Set_f1	E01PIU	null.null	

Table 113. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 114. 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 115. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 116. 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 117. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 118. GOOSE Message :Fast GOOSE Priority: High

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

Table 119. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 120. 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]	ST_f1			

Table 121. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 122. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E04BCU	BreakerFailure.RBRF1.OpEx.general[ST]	STb_f1	E02PIU	QA0Interface.XCBR	

Table 123. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 124. GOOSE Message :Fast GOOSE Priority: High

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

Table 125. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 126. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpIn.general[ST]	E04BCU	BreakerFailure.RBRF1.OpIn.general[ST]	STb_f1			

Table 127. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Cardiff/E/05/BreakerFailure1
- BreakerFailureLine.CBREExternTrip:hlx_Cardiff/E/02/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/05	RBRF1.OpEx.general[ST]	Cardiff/E/02/QA0/Interface	QA0.XCBR.1

Table 128. 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]	STbCB01	E02PIU	QA0Interface.XCBR	

Table 129. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Cardiff/E/01/BreakerFailure
- BreakerFailureLine.CBREExternTrip:hlx_Cardiff/E/05/QA0/Interface

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

Table 130. 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]	STB_f1	E05PIU	QA0Interface.XCBR	

Table 131. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureLine.BreakerFailure:hlx_Cardiff/E/02/BreakerFailure1
- BreakerFailureLine.CBRExternTrip:hlx_Cardiff/E/05/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/02	RBRF1.OpEx.general[ST]	Cardiff/E/05/QA0/Interface	QA0.XCBR.1

Table 132. 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]	STB_CB01	E05PIU	QA0Interface.XCBR	

Table 133. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 134. 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]	STB_f1	E05PIU	QA0Interface.XCBR	

Table 135. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 136. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
OpEx.general[ST]	E04BCU	BreakerFailure.RBRF1.OpEx.general[ST]	STB_f1	E05PIU	QA0Interface.XCBR	

Table 137. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/06	RBRF1.OpEx.general[ST]	Cardiff/E/02/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]	E06BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	ST_f1	E02PIU	QA0Interface.XCBR	

Table 139. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 140. 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]	ST_f1	E05PIU	QA0Interface.XCBR	

Table 141. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 142. GOOSE Message :Fast GOOSE Priority: High

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

Table 143. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate Internal	Cardiff/E/06	RBRF1.OpIn.general[ST]	Cardiff/E/06/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
OpIn.general[ST]	E06BCU	BreakerFailure1.RBRF1.OpIn.general[ST]	ST_f1			

Table 145. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/02/BreakerFailure1
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/01/QA0/Interface

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

Table 146. 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]	STCB02	E01PIU	null.null	

Table 147. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/02/BreakerFailure1
- BreakerFailureTrafo.Trip:hlx_Cardiff/E/02/Trip

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Cardiff/E/02	TripPTRC1.Tr.general[ST]	Cardiff/E/02/BreakerFailure1	RBRF.1

Table 148. 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_fl	E02BCU	Master.GGIO	

Table 149. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.InternalCBR:hlx_Cardiff/E/02/QA0/Interface
- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/02/BreakerFailure1

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

Table 150. 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]	STCB02	E02PIU	QA0Interface.XCBBR	

Table 151. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/03/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/01/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/03	RBRF1.OpEx.general[ST]	Cardiff/E/01/QA0/Interface	QA0.XCBBR.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]	E03BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	STCB_f2	E01PIU	null.null	

Table 153. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/01/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/03/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/01	RBRF1.OpEx.general[ST]	Cardiff/E/03/QA0/Interface	QA0.XCBBR.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]	E01BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	ST_f2			

Table 155. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/02/BreakerFailure1
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/03/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/02	RBRF1.OpEx.general[ST]	Cardiff/E/03/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]	E02BCU	BreakerFailure.RBRF1.OpEx.general[ST]	ST_CB02			

Table 157. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/04/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/01/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/04/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/03/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/01/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/04/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/01	RBRF1.OpEx.general[ST]	Cardiff/E/04/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]	E01BCU	BreakerFailure1.RBRF1.OpEx.general[ST]	ST_f2			

Table 159. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/02/BreakerFailure1
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/04/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/02	RBRF1.OpEx.general[ST]	Cardiff/E/04/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]	E02BCU	BreakerFailure.RBRF1.OpEx.general[ST]	ST_CB02			

Table 161. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/03/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/04/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/05/BreakerFailure1
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/01/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/05/BreakerFailure1
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/03/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/05/BreakerFailure1
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/04/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/05/BreakerFailure1
- BreakerFailureTrafo.Trip:hlx_Cardiff/E/05/Trip

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Trip	Cardiff/E/05	TripPTRC1.Tr.general[ST]	Cardiff/E/05/BreakerFailure1	RBRF.1

Table 162. 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	Master.GGIO	

Table 163. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.InternalCBR:hlx_Cardiff/E/05/QA0/Interface
- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/05/BreakerFailure1

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

Table 164. 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]	OpCB02	E05PIU	QA0Interface.XCBR	

Table 165. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/06/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/01/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/06/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/03/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/06/BreakerFailure

- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/04/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/01/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/06/QA0/Interface

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Operate External	Cardiff/E/01	RBRF1.OpEx.general[ST]	Cardiff/E/06/QA0/Interface	QA0.XCBR.1

Table 166. 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]	gcb_f2			

Table 167. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/02/BreakerFailure1
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/06/QA0/Interface

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

Table 168. 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]	gcb02			

Table 169. GOOSE Message :Fast GOOSE Priority: High

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/03/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/06/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/04/BreakerFailure
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/06/QA0/Interface

Instance details

- BreakerFailureTrafo.RBRF:hlx_Cardiff/E/05/BreakerFailure1
- BreakerFailureTrafo.ExternalCBR:hlx_Cardiff/E/06/QA0/Interface

Instance details

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

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

Table 170. 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	null.null	

Table 171. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Cardiff/E/01	OCPTRC1.Op.general[ST]	Cardiff/E/01/Trip	Trip.PTRC.1

Table 172. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E01BUP	Overcurrent.OCPTRC1.Op.general[ST]	gcb01	E01PIU	null.null	

Table 173. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Diff Operate	Cardiff/E/02	DIFFPTRC1.Op.general[ST]	Cardiff/E/02/Trip	Trip.PTRC.1

Table 174. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E02BPU	Differential.DIFFPTRC1.Op.general[ST]	gcb_f1	E02PIU	Trip.PTRC	

Table 175. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Cardiff/E/02	OCPTRC1.Op.general[ST]	Cardiff/E/02/Trip	Trip.PTRC.1

Table 176. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E02BUP	Overcurrent.OCPTRC1.Op.general[ST]	gcb_f1	E02PIU	Trip.PTRC	

Table 177. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 178. 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			

Table 179. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Cardiff/E/03	OCPTRC1.Op.general[ST]	Cardiff/E/03/Trip	Trip.PTRC.1

Table 180. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E03BUP	Overcurrent.OCPTRC1.Op.general[ST]	gcb01			

Table 181. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 182. 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			

Table 183. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Cardiff/E/04	OCPTRC1.Op.general[ST]	Cardiff/E/04/Trip	Trip.PTRC.1

Table 184. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E04BUP	Overcurrent.OCPTRC1.Op.general[ST]	gcb01			

Table 185. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
Diff Operate	Cardiff/E/05	DIFFPTRC1.Op.general[ST]	Cardiff/E/05/Trip	Trip.PTRC.1

Table 186. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E05BPU	Differential.DIFFPTRC1.Op.general[ST]	gcb_f1	E05PIU	Trip.PTRC	

Table 187. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Cardiff/E/05	OCPTRC1.Op.general[ST]	Cardiff/E/05/Trip	Trip.PTRC.1

Table 188. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E05BUP	Overcurrent.OCPTRC1.Op.general[ST]	gcb_f1	E05PIU	Trip.PTRC	

Table 189. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

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

Table 190. 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			

Table 191. GOOSE Message :Fast GOOSE Priority: High

Instance details

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

Signal Name	Sending Function	Data	Receiving Function	Receiving Lnode
OC Operate	Cardiff/E/06	OCPTRC1.Op.general[ST]	Cardiff/E/06/Trip	Trip.PTRC.1

Table 192. GOOSE Message :Fast GOOSE Priority: High

Signal Name	Publisher	Data Attribute	Goose Control Block	Subscriber	Client LN	Internal Routing
Op.general[ST]	E06BUP	Overcurrent.OCPTRC1.Op.general[ST]	gcb01			

Table 193. GOOSE Message :Fast GOOSE Priority: High

3.3. Voltage Level Cardiff/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
03	Busbar-	-
04	Busbar-	-

Bay Name	Description	IEDs
05	-	BCU: E05BCU C60, BPU: E05BPU 7UT85, BUP: E05BUP 7SJ85, PIU: E05PIU 6MU8
06	Busbar-	-

3.3.1. Bus Bar Cardiff/E/BB

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

3.3.2. Bay Cardiff/E/01

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

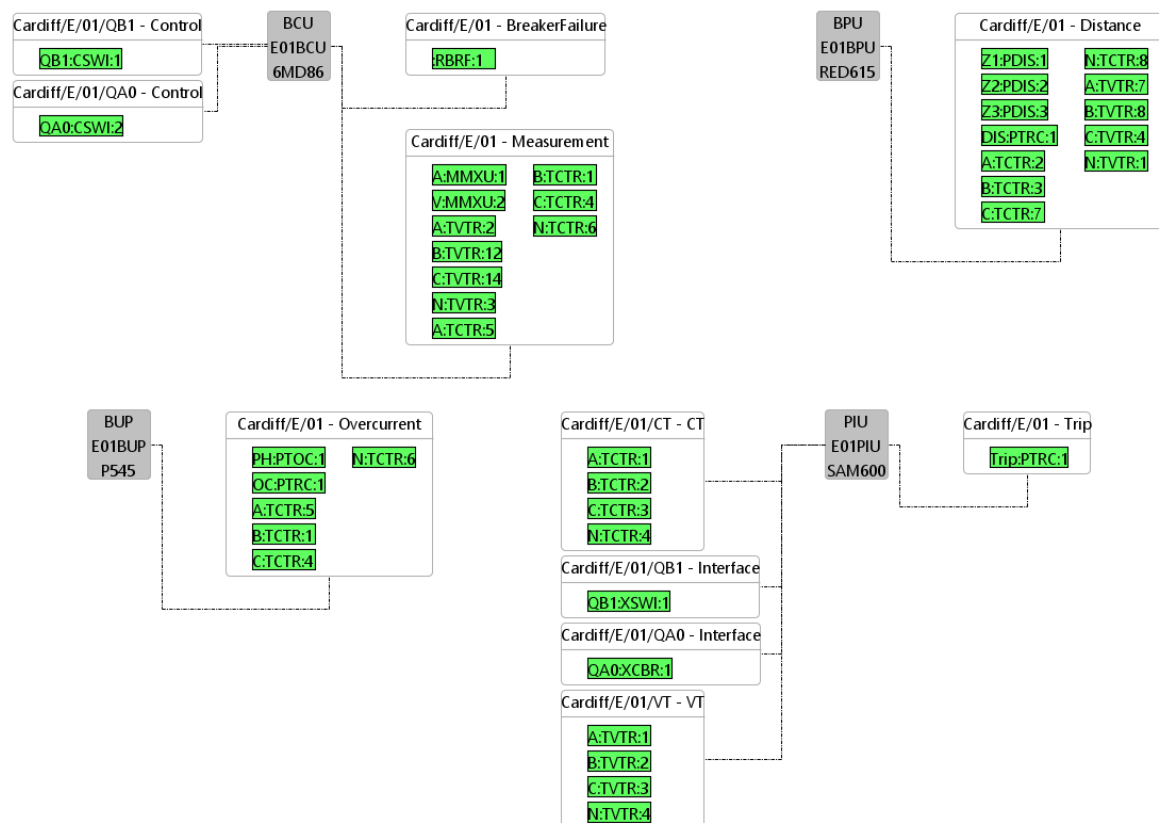


Figure 2. Bay Function Diagram of bay: 01

Role	Name	Type	Description
BCU	E01BCU	6MD86	-

Table 194. Specification for BCU

Role	Name	Type	Description
BPU	E01BPU	RED615	-

Table 195. Specification for BPU

Role	Name	Type	Description
BUP	E01BUP	P545	-

Table 196. Specification for BUP

Role	Name	Type	Description
PIU	E01PIU	SAM600	-

Table 197. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measurement	I1	Cardiff/E/01/ AMMXU1.A.phsA.cVal.mag.f[MX]	E01BCUMeasurement/ A.MMXU.1	No Link
Measurement	I2	Cardiff/E/01/ AMMXU1.A.phsB.cVal.mag.f[MX]	E01BCUMeasurement/ A.MMXU.1	No Link
Measurement	I3	Cardiff/E/01/ AMMXU1.A.phsC.cVal.mag.f[MX]	E01BCUMeasurement/ A.MMXU.1	No Link
Measurement	I Neut	Cardiff/E/01/ AMMXU1.A.neut.cVal.mag.f[MX]	E01BCUMeasurement/ A.MMXU.1	No Link
Measurement	U1	Cardiff/E/01/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E01BCUMeasurement/ V.MMXU.2	No Link
Measurement	U2	Cardiff/E/01/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E01BCUMeasurement/ V.MMXU.2	No Link
Measurement	U3	Cardiff/E/01/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E01BCUMeasurement/ V.MMXU.2	No Link
Measurement	U Neut	Cardiff/E/01/ VMMXU2.PhV.net.cVal.mag.f[MX]	E01BCUMeasurement/ V.MMXU.2	No Link
Measurement	U1 sv	Cardiff/E/01/ ATVTR2.VolSv.instMag.i[MX]	E01BCUMeasurement/ A.TVTR.2	No Link
Measurement	U2 sv	Cardiff/E/01/ BTVTR12.VolSv.instMag.i[MX]	E01BCUMeasurement/ B.TVTR.12	No Link
Measurement	U3 sv	Cardiff/E/01/ CTVTR14.VolSv.instMag.i[MX]	E01BCUMeasurement/ C.TVTR.14	No Link
Measurement	U Neut sv	Cardiff/E/01/ NTVTR3.VolSv.instMag.i[MX]	E01BCUMeasurement/ N.TVTR.3	No Link
Measurement	I1 sv	Cardiff/E/01/ ATCTR5.AmpSv.instMag.i[MX]	E01BCUMeasurement/ A.TCTR.5	No Link
Measurement	I2 sv	Cardiff/E/01/ BTCTR1.AmpSv.instMag.f[MX]	E01BCUMeasurement/ B.TCTR.1	No Link
Measurement	I3 sv	Cardiff/E/01/ CTCTR4.AmpSv.instMag.i[MX]	E01BCUMeasurement/ C.TCTR.4	No Link
Measurement	I Neut sv	Cardiff/E/01/ NTCTR6.AmpSv.instMag.i[MX]	E01BCUMeasurement/ N.TCTR.6	No Link
Distance	Start Z1	Cardiff/E/01/Z1PDIS1.Str.general[ST]	E01BPULD0/Z1.PDIS.1	No Link
Distance	Operate Z1	Cardiff/E/01/Z1PDIS1.Op.general[ST]	E01BPULD0/Z1.PDIS.1	No Link
Distance	Start Z2	Cardiff/E/01/Z2PDIS2.Str.general[ST]	E01BPULD0/Z2.PDIS.2	No Link
Distance	Operate Z2	Cardiff/E/01/Z2PDIS2.Op.general[ST]	E01BPULD0/Z2.PDIS.2	No Link
Distance	Start Z3	Cardiff/E/01/Z3PDIS3.Str.general[ST]	E01BPULD0/Z3.PDIS.3	No Link
Distance	Operate Z3	Cardiff/E/01/Z3PDIS3.Op.general[ST]	E01BPULD0/Z3.PDIS.3	No Link
Distance	DIS Operate	Cardiff/E/01/ DISPTRC1.Op.general[ST]	E01BPULD0/DIS.PTRC.1	No Link
Distance	I1 sv	Cardiff/E/01/ ATCTR2.AmpSv.instMag.i[MX]	E01BPULD0/A.TCTR.2	No Link
Distance	I2 sv	Cardiff/E/01/ BTCTR3.AmpSv.instMag.f[MX]	E01BPULD0/B.TCTR.3	No Link
Distance	I3 sv	Cardiff/E/01/ CTCTR7.AmpSv.instMag.i[MX]	E01BPULD0/C.TCTR.7	No Link
Distance	I Neut sv	Cardiff/E/01/ NTCTR8.AmpSv.instMag.i[MX]	E01BPULD0/N.TCTR.8	No Link

Function	Process Name	Functional Name	Logical Device	Description
Distance	U1 sv	Cardiff/E/01/ ATVTR7.VolSv.instMag.i[MX]	E01BPULD0/A.TVTR.7	No Link
Distance	U2 sv	Cardiff/E/01/ BTVTR8.VolSv.instMag.i[MX]	E01BPULD0/B.TVTR.8	No Link
Distance	U3 sv	Cardiff/E/01/ CTVTR4.VolSv.instMag.i[MX]	E01BPULD0/C.TVTR.4	No Link
Distance	U Neut sv	Cardiff/E/01/ NTVTR1.VolSv.instMag.i[MX]	E01BPULD0/N.TVTR.1	No Link
Overcurrent	OC Start	Cardiff/E/01/PHPTOC1.Str.general[ST]	E01BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/01/ PHPTOC1.Op.general[ST]	E01BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/01/ OCPTRC1.Op.general[ST]	E01BUPOvercurrent/ OC.PTRC.1	No Link
Overcurrent	I1 sv	Cardiff/E/01/ ATCTR5.AmpSv.instMag.i[MX]	E01BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Cardiff/E/01/ BTCTR1.AmpSv.instMag.f[MX]	E01BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Cardiff/E/01/ CTCTR4.AmpSv.instMag.i[MX]	E01BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Cardiff/E/01/ NTCTR6.AmpSv.instMag.i[MX]	E01BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Cardiff/E/01/ TripPTRC1.Tr.general[ST]	E01PIUTrip/Trip.PTRC.1	No Link
BreakerFailure	BF Start	Cardiff/E/01/RBRF1.Str.general[ST]	E01BCUBreakerFailure1/ RBRF.1	No Link
BreakerFailure	Operate External	Cardiff/E/01/RBRF1.OpEx.general[ST]	E01BCUBreakerFailure1/ RBRF.1	No Link
BreakerFailure	Operate Internal	Cardiff/E/01/RBRF1.OpIn.general[ST]	E01BCUBreakerFailure1/ RBRF.1	No Link
Interface	Local Operation	Cardiff/E/01/QB1/ QB1XSWI1.Loc.stVal[ST]	E01PIUQB1Interface/ QB1.XSWI.1	No Link
Interface	Switch Position	Cardiff/E/01/QB1/ QB1XSWI1.Pos.stVal[ST]	E01PIUQB1Interface/ QB1.XSWI.1	No Link
Control	Switch Command	Cardiff/E/01/QB1/ QB1CSWI1.Pos.Oper.ctlVal[CO]	E01BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Open	Cardiff/E/01/QB1/ QB1CSWI1.OpOpn.general[ST]	E01BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Close	Cardiff/E/01/QB1/ QB1CSWI1.OpCls.general[ST]	E01BCUQB1Control/ QB1.CSWI.1	No Link
Control	QB1 Position	Cardiff/E/01/QB1/ QB1CSWI1.Pos.stVal[ST]	E01BCUQB1Control/ QB1.CSWI.1	No Link
Interface	Local Operation	Cardiff/E/01/QA0/ QA0XCBR1.Loc.stVal[ST]	E01PIUQA0Interface/ QA0.XCBR.1	No Link
Interface	Switch Position	Cardiff/E/01/QA0/ QA0XCBR1.Pos.stVal[ST]	E01PIUQA0Interface/ QA0.XCBR.1	No Link
Control	Switch Command	Cardiff/E/01/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E01BCUQA0Control/ QA0.CSWI.2	No Link
Control	Operate Open	Cardiff/E/01/QA0/ QA0CSWI2.OpOpn.general[ST]	E01BCUQA0Control/ QA0.CSWI.2	No Link

Function	Process Name	Functional Name	Logical Device	Description
Contr ol	Operate Close	Cardiff/E/01/QA0/QA0CSWI2.OpCls.general[ST]	E01BCUQA0Control/QA0.CSWI.2	No Link
Contr ol	QA0 Position	Cardiff/E/01/QA0/QA0CSWI2.Pos.stVal[ST]	E01BCUQA0Control/QA0.CSWI.2	No Link
L1	I1 sv	Cardiff/E/01/CT/ATCTR1.AmpSv.instMag.i[MX]	E01PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Cardiff/E/01/CT/BTCTR2.AmpSv.instMag.f[MX]	E01PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Cardiff/E/01/CT/CTCTR3.AmpSv.instMag.i[MX]	E01PIUCTCT/C.TCTR.3	No Link
L4	I Neut sv	Cardiff/E/01/CT/NTCTR4.AmpSv.instMag.i[MX]	E01PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Cardiff/E/01/VT/ATVTR1.VolSv.instMag.i[MX]	E01PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Cardiff/E/01/VT/BTVTR2.VolSv.instMag.i[MX]	E01PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Cardiff/E/01/VT/CTVTR3.VolSv.instMag.i[MX]	E01PIUVTVT/C.TVTR.3	No Link
L4	U Neut sv	Cardiff/E/01/VT/NTVTR4.VolSv.instMag.i[MX]	E01PIUVTVT/N.TVTR.4	No Link

Table 198. Signals of 01

3.3.3. Bay Cardiff/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 199. Specification for BCU

Role	Name	Type	Description
BPU	E02BPU	7UT85	-

Table 200. Specification for BPU

Role	Name	Type	Description
BUP	E02BUP	7SJ85	-

Table 201. Specification for BUP

Role	Name	Type	Description
PIU	E02PIU	6MU85	-

Table 202. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measu remen t	I1	Cardiff/E/02/AMMXU1.A.phsA.cVal.mag.f[MX]	E02BCUMeasurement/A.MMXU.1	No Link
Measu remen t	I2	Cardiff/E/02/AMMXU1.A.phsB.cVal.mag.f[MX]	E02BCUMeasurement/A.MMXU.1	No Link
Measu remen t	I3	Cardiff/E/02/AMMXU1.A.phsC.cVal.mag.f[MX]	E02BCUMeasurement/A.MMXU.1	No Link
Measu remen t	I Neut	Cardiff/E/02/AMMXU1.A.neut.cVal.mag.f[MX]	E02BCUMeasurement/A.MMXU.1	No Link
Measu remen t	U1	Cardiff/E/02/VMMXU2.PhV.phsA.cVal.mag.f[MX]	E02BCUMeasurement/V.MMXU.2	No Link

Function	Process Name	Functional Name	Logical Device	Description
Measurement	U2	Cardiff/E/02/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E02BCUMeasurement/ V.MMXU.2	No Link
Measurement	U3	Cardiff/E/02/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E02BCUMeasurement/ V.MMXU.2	No Link
Measurement	U Neut	Cardiff/E/02/ VMMXU2.PhV.net.cVal.mag.f[MX]	E02BCUMeasurement/ V.MMXU.2	No Link
Measurement	U1 sv	Cardiff/E/02/ ATVTR2.VolSv.instMag.i[MX]	E02BCUMeasurement/ A.TVTR.2	No Link
Measurement	U2 sv	Cardiff/E/02/ BTVTR12.VolSv.instMag.i[MX]	E02BCUMeasurement/ B.TVTR.12	No Link
Measurement	U3 sv	Cardiff/E/02/ CTVTR14.VolSv.instMag.i[MX]	E02BCUMeasurement/ C.TVTR.14	No Link
Measurement	U Neut sv	Cardiff/E/02/ NTVTR3.VolSv.instMag.i[MX]	E02BCUMeasurement/ N.TVTR.3	No Link
Measurement	I1 sv	Cardiff/E/02/ ATCTR5.AmpSv.instMag.i[MX]	E02BCUMeasurement/ A.TCTR.5	No Link
Measurement	I2 sv	Cardiff/E/02/ BTCTR1.AmpSv.instMag.f[MX]	E02BCUMeasurement/ B.TCTR.1	No Link
Measurement	I3 sv	Cardiff/E/02/ CTCTR4.AmpSv.instMag.i[MX]	E02BCUMeasurement/ C.TCTR.4	No Link
Measurement	I Neut sv	Cardiff/E/02/ NTCTR6.AmpSv.instMag.i[MX]	E02BCUMeasurement/ N.TCTR.6	No Link
Differential	Diff Operate	Cardiff/E/02/PDIF1.Op.general[ST]	E02BPUDifferential/PDIF.1	No Link
Differential	Diff Operate	Cardiff/E/02/ DIFFPTRC1.Op.general[ST]	E02BPUDifferential/ DIFF.PTRC.1	No Link
Differential	I1 sv	Cardiff/E/02/ ATCTR2.AmpSv.instMag.i[MX]	E02BPUDifferential/A.TCTR.2	No Link
Differential	I2 sv	Cardiff/E/02/ BTCTR3.AmpSv.instMag.f[MX]	E02BPUDifferential/B.TCTR.3	No Link
Differential	I3 sv	Cardiff/E/02/ CTCTR1.AmpSv.instMag.i[MX]	E02BPUDifferential/C.TCTR.1	No Link
Differential	I Neut sv	Cardiff/E/02/ NTCTR4.AmpSv.instMag.i[MX]	E02BPUDifferential/N.TCTR.4	No Link
Differential	I1 sv	Cardiff/E/02/ ATCTR5.AmpSv.instMag.i[MX]	E02BPUDifferential/A.TCTR.5	No Link
Differential	I2 sv	Cardiff/E/02/ BTCTR6.AmpSv.instMag.f[MX]	E02BPUDifferential/B.TCTR.6	No Link
Differential	I3 sv	Cardiff/E/02/ CTCTR7.AmpSv.instMag.i[MX]	E02BPUDifferential/C.TCTR.7	No Link
Differential	I Neut sv	Cardiff/E/02/ NTCTR8.AmpSv.instMag.i[MX]	E02BPUDifferential/N.TCTR.8	No Link
Overcurrent	OC Start	Cardiff/E/02/PHPTOC1.Str.general[ST]	E02BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/02/ PHPTOC1.Op.general[ST]	E02BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/02/ OCPTRC1.Op.general[ST]	E02BUPOvercurrent/ OC.PTRC.1	No Link
Overcurrent	I1 sv	Cardiff/E/02/ ATCTR5.AmpSv.instMag.i[MX]	E02BUPOvercurrent/A.TCTR.5	No Link

Function	Process Name	Functional Name	Logical Device	Description
Overcurrent	I2 sv	Cardiff/E/02/BTCTR1.AmpSv.instMag.f[MX]	E02BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Cardiff/E/02/CTCTR4.AmpSv.instMag.i[MX]	E02BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Cardiff/E/02/NTCTR6.AmpSv.instMag.i[MX]	E02BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Cardiff/E/02/TripPTRC1.Tr.general[ST]	E02PIUTrip/Trip.PTRC.1	No Link
BreakerFailure1	BF Start	Cardiff/E/02/RBRF1.Str.general[ST]	E02BCUBreakerFailure/RBRF.1	No Link
BreakerFailure1	Operate External	Cardiff/E/02/RBRF1.OpEx.general[ST]	E02BCUBreakerFailure/RBRF.1	No Link
BreakerFailure1	Operate Internal	Cardiff/E/02/RBRF1.OpIn.general[ST]	E02BCUBreakerFailure/RBRF.1	No Link
Interface	Local Operation	Cardiff/E/02/QB1/QB1XSWI1.Loc.stVal[ST]	E02PIUQB1Interface/QB1.XSWI.1	No Link
Interface	Switch Position	Cardiff/E/02/QB1/QB1XSWI1.Pos.stVal[ST]	E02PIUQB1Interface/QB1.XSWI.1	No Link
Control	Switch Command	Cardiff/E/02/QB1/QB1CSWI1.Pos.Oper.ctlVal[CO]	E02BCUQB1Control/QB1.CSWI.1	No Link
Control	Operate Open	Cardiff/E/02/QB1/QB1CSWI1.OpOpn.general[ST]	E02BCUQB1Control/QB1.CSWI.1	No Link
Control	Operate Close	Cardiff/E/02/QB1/QB1CSWI1.OpCls.general[ST]	E02BCUQB1Control/QB1.CSWI.1	No Link
Control	QB1 Position	Cardiff/E/02/QB1/QB1CSWI1.Pos.stVal[ST]	E02BCUQB1Control/QB1.CSWI.1	No Link
Interface	Local Operation	Cardiff/E/02/QA0/QA0XCBR1.Loc.stVal[ST]	E02PIUQA0Interface/QA0.XCBR.1	No Link
Interface	Switch Position	Cardiff/E/02/QA0/QA0XCBR1.Pos.stVal[ST]	E02PIUQA0Interface/QA0.XCBR.1	No Link
Control	Switch Command	Cardiff/E/02/QA0/QA0CSWI2.Pos.Oper.ctlVal[CO]	E02BCUQA0Control/QA0.CSWI.2	No Link
Control	Operate Open	Cardiff/E/02/QA0/QA0CSWI2.OpOpn.general[ST]	E02BCUQA0Control/QA0.CSWI.2	No Link
Control	Operate Close	Cardiff/E/02/QA0/QA0CSWI2.OpCls.general[ST]	E02BCUQA0Control/QA0.CSWI.2	No Link
Control	QA0 Position	Cardiff/E/02/QA0/QA0CSWI2.Pos.stVal[ST]	E02BCUQA0Control/QA0.CSWI.2	No Link
L1	I1 sv	Cardiff/E/02/CT/ATCTR1.AmpSv.instMag.i[MX]	E02PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Cardiff/E/02/CT/BTCTR2.AmpSv.instMag.f[MX]	E02PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Cardiff/E/02/CT/CTCTR3.AmpSv.instMag.i[MX]	E02PIUCTCT/C.TCTR.3	No Link
L4	I Neut sv	Cardiff/E/02/CT/NTCTR4.AmpSv.instMag.i[MX]	E02PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Cardiff/E/02/VT/ATVTR1.VolSv.instMag.i[MX]	E02PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Cardiff/E/02/VT/BTVTR2.VolSv.instMag.i[MX]	E02PIUVTVT/B.TVTR.2	No Link

Function	Process Name	Functional Name	Logical Device	Description
L3	U3 sv	Cardiff/E/02/VT/ CTVTR3.VolSv.instMag.i[MX]	E02PIUVTVT/C.TVTR.3	No Link
L4	U Neut sv	Cardiff/E/02/VT/ NTVTR4.VolSv.instMag.i[MX]	E02PIUVTVT/N.TVTR.4	No Link

Table 203. Signals of 02

3.3.4. Bay Cardiff/E/03

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

Role	Name	Type	Description
BCU	E03BCU	6MD86	-

Table 204. Specification for BCU

Role	Name	Type	Description
BPU	E03BPU	RED615	-

Table 205. Specification for BPU

Role	Name	Type	Description
BUP	E03BUP	P545	-

Table 206. Specification for BUP

Role	Name	Type	Description
PIU	E03PIU	SAM600	-

Table 207. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measu remen t	I1	Cardiff/E/03/ AMMXU1.A.phsA.cVal.mag.f[MX]	E03BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I2	Cardiff/E/03/ AMMXU1.A.phsB.cVal.mag.f[MX]	E03BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I3	Cardiff/E/03/ AMMXU1.A.phsC.cVal.mag.f[MX]	E03BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	I Neut	Cardiff/E/03/ AMMXU1.A.neut.cVal.mag.f[MX]	E03BCUMeasurement/ A.MMXU.1	No Link
Measu remen t	U1	Cardiff/E/03/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E03BCUMeasurement/ V.MMXU.2	No Link
Measu remen t	U2	Cardiff/E/03/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E03BCUMeasurement/ V.MMXU.2	No Link
Measu remen t	U3	Cardiff/E/03/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E03BCUMeasurement/ V.MMXU.2	No Link
Measu remen t	U Neut	Cardiff/E/03/ VMMXU2.PhV.net.cVal.mag.f[MX]	E03BCUMeasurement/ V.MMXU.2	No Link
Measu remen t	U1 sv	Cardiff/E/03/ ATVTR2.VolSv.instMag.i[MX]	E03BCUMeasurement/ A.TVTR.2	No Link
Measu remen t	U2 sv	Cardiff/E/03/ BTVTR12.VolSv.instMag.i[MX]	E03BCUMeasurement/ B.TVTR.12	No Link
Measu remen t	U3 sv	Cardiff/E/03/ CTVTR14.VolSv.instMag.i[MX]	E03BCUMeasurement/ C.TVTR.14	No Link
Measu remen t	U Neut sv	Cardiff/E/03/ NTVTR3.VolSv.instMag.i[MX]	E03BCUMeasurement/ N.TVTR.3	No Link
Measu remen t	I1 sv	Cardiff/E/03/ ATCTR5.AmpSv.instMag.i[MX]	E03BCUMeasurement/ A.TCTR.5	No Link

Function	Process Name	Functional Name	Logical Device	Description
Measurement	I2 sv	Cardiff/E/03/ BTCTR1.AmpSv.instMag.f[MX]	E03BCUMeasurement/ B.TCTR.1	No Link
Measurement	I3 sv	Cardiff/E/03/ CTCTR4.AmpSv.instMag.i[MX]	E03BCUMeasurement/ C.TCTR.4	No Link
Measurement	I Neut sv	Cardiff/E/03/ NTCTR6.AmpSv.instMag.i[MX]	E03BCUMeasurement/ N.TCTR.6	No Link
Distance	Start Z1	Cardiff/E/03/Z1PDIS1.Str.general[ST]	E03BPULD0/Z1.PDIS.1	No Link
Distance	Operate Z1	Cardiff/E/03/Z1PDIS1.Op.general[ST]	E03BPULD0/Z1.PDIS.1	No Link
Distance	Start Z2	Cardiff/E/03/Z2PDIS2.Str.general[ST]	E03BPULD0/Z2.PDIS.2	No Link
Distance	Operate Z2	Cardiff/E/03/Z2PDIS2.Op.general[ST]	E03BPULD0/Z2.PDIS.2	No Link
Distance	Start Z3	Cardiff/E/03/Z3PDIS3.Str.general[ST]	E03BPULD0/Z3.PDIS.3	No Link
Distance	Operate Z3	Cardiff/E/03/Z3PDIS3.Op.general[ST]	E03BPULD0/Z3.PDIS.3	No Link
Distance	DIS Operate	Cardiff/E/03/ DISPTRC1.Op.general[ST]	E03BPULD0/DIS.PTRC.1	No Link
Distance	I1 sv	Cardiff/E/03/ ATCTR2.AmpSv.instMag.i[MX]	E03BPULD0/A.TCTR.2	No Link
Distance	I2 sv	Cardiff/E/03/ BTCTR3.AmpSv.instMag.f[MX]	E03BPULD0/B.TCTR.3	No Link
Distance	I3 sv	Cardiff/E/03/ CTCTR7.AmpSv.instMag.i[MX]	E03BPULD0/C.TCTR.7	No Link
Distance	I Neut sv	Cardiff/E/03/ NTCTR8.AmpSv.instMag.i[MX]	E03BPULD0/N.TCTR.8	No Link
Distance	U1 sv	Cardiff/E/03/ ATVTR7.VolSv.instMag.i[MX]	E03BPULD0/A.TVTR.7	No Link
Distance	U2 sv	Cardiff/E/03/ BTVTR8.VolSv.instMag.i[MX]	E03BPULD0/B.TVTR.8	No Link
Distance	U3 sv	Cardiff/E/03/ CTVTR4.VolSv.instMag.i[MX]	E03BPULD0/C.TVTR.4	No Link
Distance	U Neut sv	Cardiff/E/03/ NTVTR1.VolSv.instMag.i[MX]	E03BPULD0/N.TVTR.1	No Link
Overcurrent	OC Start	Cardiff/E/03/PHPTOC1.Str.general[ST]	E03BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/03/ PHPTOC1.Op.general[ST]	E03BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/03/ OCPTRC1.Op.general[ST]	E03BUPOvercurrent/ OC.PTRC.1	No Link
Overcurrent	I1 sv	Cardiff/E/03/ ATCTR5.AmpSv.instMag.i[MX]	E03BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Cardiff/E/03/ BTCTR1.AmpSv.instMag.f[MX]	E03BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Cardiff/E/03/ CTCTR4.AmpSv.instMag.i[MX]	E03BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Cardiff/E/03/ NTCTR6.AmpSv.instMag.i[MX]	E03BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Cardiff/E/03/ TripPTRC1.Tr.general[ST]	E03PIUTrip/Trip.PTRC.1	No Link
BreakerFailure	BF Start	Cardiff/E/03/RBRF1.Str.general[ST]	E03BCUBreakerFailure1/ RBRF.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Break erFailure	Operate External	Cardiff/E/03/RBRF1.OpEx.general[ST]	E03BCUBreakerFailure1/RBRF.1	No Link
Break erFailure	Operate Internal	Cardiff/E/03/RBRF1.OpIn.general[ST]	E03BCUBreakerFailure1/RBRF.1	No Link
Inter face	Local Operation	Cardiff/E/03/QB1/QB1XSWI1.Loc.stVal[ST]	E03PIUQB1Interface/QB1.XSWI.1	No Link
Inter face	Switch Position	Cardiff/E/03/QB1/QB1XSWI1.Pos.stVal[ST]	E03PIUQB1Interface/QB1.XSWI.1	No Link
Contr ol	Switch Command	Cardiff/E/03/QB1/QB1CSWI1.Pos.Oper.ctlVal[CO]	E03BCUQB1Control/QB1.CSWI.1	No Link
Contr ol	Operate Open	Cardiff/E/03/QB1/QB1CSWI1.OpOpn.general[ST]	E03BCUQB1Control/QB1.CSWI.1	No Link
Contr ol	Operate Close	Cardiff/E/03/QB1/QB1CSWI1.OpCls.general[ST]	E03BCUQB1Control/QB1.CSWI.1	No Link
Contr ol	QB1 Position	Cardiff/E/03/QB1/QB1CSWI1.Pos.stVal[ST]	E03BCUQB1Control/QB1.CSWI.1	No Link
Inter face	Local Operation	Cardiff/E/03/QA0/QA0XCBR1.Loc.stVal[ST]	E03PIUQA0Interface/QA0.XCBR.1	No Link
Inter face	Switch Position	Cardiff/E/03/QA0/QA0XCBR1.Pos.stVal[ST]	E03PIUQA0Interface/QA0.XCBR.1	No Link
Contr ol	Switch Command	Cardiff/E/03/QA0/QA0CSWI2.Pos.Oper.ctlVal[CO]	E03BCUQA0Control/QA0.CSWI.2	No Link
Contr ol	Operate Open	Cardiff/E/03/QA0/QA0CSWI2.OpOpn.general[ST]	E03BCUQA0Control/QA0.CSWI.2	No Link
Contr ol	Operate Close	Cardiff/E/03/QA0/QA0CSWI2.OpCls.general[ST]	E03BCUQA0Control/QA0.CSWI.2	No Link
Contr ol	QA0 Position	Cardiff/E/03/QA0/QA0CSWI2.Pos.stVal[ST]	E03BCUQA0Control/QA0.CSWI.2	No Link
L1	I1 sv	Cardiff/E/03/CT/ATCTR1.AmpSv.instMag.i[MX]	E03PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Cardiff/E/03/CT/BTCTR2.AmpSv.instMag.f[MX]	E03PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Cardiff/E/03/CT/CTCTR3.AmpSv.instMag.i[MX]	E03PIUCTCT/C.TCTR.3	No Link
L4	I Neut sv	Cardiff/E/03/CT/NTCTR4.AmpSv.instMag.i[MX]	E03PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Cardiff/E/03/VT/ATVTR1.VolSv.instMag.i[MX]	E03PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Cardiff/E/03/VT/BTVTR2.VolSv.instMag.i[MX]	E03PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Cardiff/E/03/VT/CTVTR3.VolSv.instMag.i[MX]	E03PIUVTVT/C.TVTR.3	No Link
L4	U Neut sv	Cardiff/E/03/VT/NTVTR4.VolSv.instMag.i[MX]	E03PIUVTVT/N.TVTR.4	No Link

Table 208. Signals of 03

3.3.5. Bay Cardiff/E/04

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

Role	Name	Type	Description
BCU	E04BCU	MyType	-

Table 209. Specification for BCU

Role	Name	Type	Description
BPU	E04BPU	RED615	-

Table 210. Specification for BPU

Role	Name	Type	Description
BUP	E04BUP	P545	-

Table 211. Specification for BUP

Role	Name	Type	Description
PIU	E04PIU	SAM600	-

Table 212. Specification for PIU

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

Function	Process Name	Functional Name	Logical Device	Description
Distance	Start Z2	Cardiff/E/04/Z2PDIS2.Str.general[ST]	E04BPULD0/Z2.PDIS.2	No Link
Distance	Operate Z2	Cardiff/E/04/Z2PDIS2.Op.general[ST]	E04BPULD0/Z2.PDIS.2	No Link
Distance	Start Z3	Cardiff/E/04/Z3PDIS3.Str.general[ST]	E04BPULD0/Z3.PDIS.3	No Link
Distance	Operate Z3	Cardiff/E/04/Z3PDIS3.Op.general[ST]	E04BPULD0/Z3.PDIS.3	No Link
Distance	DIS Operate	Cardiff/E/04/ DISPTRC1.Op.general[ST]	E04BPULD0/DIS.PTRC.1	No Link
Distance	I1 sv	Cardiff/E/04/ ATCTR2.AmpSv.instMag.i[MX]	E04BPULD0/A.TCTR.2	No Link
Distance	I2 sv	Cardiff/E/04/ BTCTR3.AmpSv.instMag.f[MX]	E04BPULD0/B.TCTR.3	No Link
Distance	I3 sv	Cardiff/E/04/ CTCTR7.AmpSv.instMag.i[MX]	E04BPULD0/C.TCTR.7	No Link
Distance	I Neut sv	Cardiff/E/04/ NTCTR8.AmpSv.instMag.i[MX]	E04BPULD0/N.TCTR.8	No Link
Distance	U1 sv	Cardiff/E/04/ ATVTR7.VolSv.instMag.i[MX]	E04BPULD0/A.TVTR.7	No Link
Distance	U2 sv	Cardiff/E/04/ BTVTR8.VolSv.instMag.i[MX]	E04BPULD0/B.TVTR.8	No Link
Distance	U3 sv	Cardiff/E/04/ CTVTR4.VolSv.instMag.i[MX]	E04BPULD0/C.TVTR.4	No Link
Distance	U Neut sv	Cardiff/E/04/ NTVTR1.VolSv.instMag.i[MX]	E04BPULD0/N.TVTR.1	No Link
Overcurrent	OC Start	Cardiff/E/04/PHPTOC1.Str.general[ST]	E04BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/04/ PHPTOC1.Op.general[ST]	E04BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/04/ OCPTRC1.Op.general[ST]	E04BUPOvercurrent/ OC.PTRC.1	No Link
Overcurrent	I1 sv	Cardiff/E/04/ ATCTR5.AmpSv.instMag.i[MX]	E04BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Cardiff/E/04/ BTCTR1.AmpSv.instMag.f[MX]	E04BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Cardiff/E/04/ CTCTR4.AmpSv.instMag.i[MX]	E04BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Cardiff/E/04/ NTCTR6.AmpSv.instMag.i[MX]	E04BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Cardiff/E/04/ TripPTRC1.Tr.general[ST]	E04PIUTrip/Trip.PTRC.1	No Link
BreakerFailure	BF Start	Cardiff/E/04/RBRF1.Str.general[ST]	E04BCUBreakerFailure/RBRF.1	No Link
BreakerFailure	Operate External	Cardiff/E/04/RBRF1.OpEx.general[ST]	E04BCUBreakerFailure/RBRF.1	No Link
BreakerFailure	Operate Internal	Cardiff/E/04/RBRF1.OpIn.general[ST]	E04BCUBreakerFailure/RBRF.1	No Link
Interface	Local Operation	Cardiff/E/04/QB1/ QB1XSWI1.Loc.stVal[ST]	E04PIUQB1Interface/ QB1.XSWI.1	No Link
Interface	Switch Position	Cardiff/E/04/QB1/ QB1XSWI1.Pos.stVal[ST]	E04PIUQB1Interface/ QB1.XSWI.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Contr ol	Switch Command	Cardiff/E/04/QB1/ QB1CSWI1.Pos.Oper.ctlVal[CO]	E04BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	Operate Open	Cardiff/E/04/QB1/ QB1CSWI1.OpOpn.general[ST]	E04BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	Operate Close	Cardiff/E/04/QB1/ QB1CSWI1.OpCls.general[ST]	E04BCUQB1Control/ QB1.CSWI.1	No Link
Contr ol	QB1 Position	Cardiff/E/04/QB1/ QB1CSWI1.Pos.stVal[ST]	E04BCUQB1Control/ QB1.CSWI.1	No Link
Inter face	Local Operation	Cardiff/E/04/QA0/ QA0XCBR1.Loc.stVal[ST]	E04PIUQA0Interface/ QA0.XCBR.1	No Link
Inter face	Switch Position	Cardiff/E/04/QA0/ QA0XCBR1.Pos.stVal[ST]	E04PIUQA0Interface/ QA0.XCBR.1	No Link
Contr ol	Switch Command	Cardiff/E/04/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E04BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	Operate Open	Cardiff/E/04/QA0/ QA0CSWI2.OpOpn.general[ST]	E04BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	Operate Close	Cardiff/E/04/QA0/ QA0CSWI2.OpCls.general[ST]	E04BCUQA0Control/ QA0.CSWI.2	No Link
Contr ol	QA0 Position	Cardiff/E/04/QA0/ QA0CSWI2.Pos.stVal[ST]	E04BCUQA0Control/ QA0.CSWI.2	No Link
L1	I1 sv	Cardiff/E/04/CT/ ATCTR1.AmpSv.instMag.i[MX]	E04PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Cardiff/E/04/CT/ BTCTR2.AmpSv.instMag.f[MX]	E04PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Cardiff/E/04/CT/ CTCTR3.AmpSv.instMag.i[MX]	E04PIUCTCT/C.TCTR.3	No Link
L4	I Neut sv	Cardiff/E/04/CT/ NTCTR4.AmpSv.instMag.i[MX]	E04PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Cardiff/E/04/VT/ ATVTR1.VolSv.instMag.i[MX]	E04PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Cardiff/E/04/VT/ BTVTR2.VolSv.instMag.i[MX]	E04PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Cardiff/E/04/VT/ CTVTR3.VolSv.instMag.i[MX]	E04PIUVTVT/C.TVTR.3	No Link
L4	U Neut sv	Cardiff/E/04/VT/ NTVTR4.VolSv.instMag.i[MX]	E04PIUVTVT/N.TVTR.4	No Link

Table 213. Signals of 04

3.3.6. Bay Cardiff/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 214. Specification for BCU

Role	Name	Type	Description
BPU	E05BPU	7UT85	-

Table 215. Specification for BPU

Role	Name	Type	Description
BUP	E05BUP	7SJ85	-

Table 216. Specification for BUP

Role	Name	Type	Description
PIU	E05PIU	6MU85	-

Table 217. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measurement	I1	Cardiff/E/05/ AMMXU1.A.phsA.cVal.mag.f[MX]	E05BCUMeasurement/ A.MMXU.1	No Link
Measurement	I2	Cardiff/E/05/ AMMXU1.A.phsB.cVal.mag.f[MX]	E05BCUMeasurement/ A.MMXU.1	No Link
Measurement	I3	Cardiff/E/05/ AMMXU1.A.phsC.cVal.mag.f[MX]	E05BCUMeasurement/ A.MMXU.1	No Link
Measurement	I Neut	Cardiff/E/05/ AMMXU1.A.neut.cVal.mag.f[MX]	E05BCUMeasurement/ A.MMXU.1	No Link
Measurement	U1	Cardiff/E/05/ VMMXU2.PhV.phsA.cVal.mag.f[MX]	E05BCUMeasurement/ V.MMXU.2	No Link
Measurement	U2	Cardiff/E/05/ VMMXU2.PhV.phsB.cVal.mag.f[MX]	E05BCUMeasurement/ V.MMXU.2	No Link
Measurement	U3	Cardiff/E/05/ VMMXU2.PhV.phsC.cVal.mag.f[MX]	E05BCUMeasurement/ V.MMXU.2	No Link
Measurement	U Neut	Cardiff/E/05/ VMMXU2.PhV.net.cVal.mag.f[MX]	E05BCUMeasurement/ V.MMXU.2	No Link
Measurement	U1 sv	Cardiff/E/05/ ATVTR2.VolSv.instMag.i[MX]	E05BCUMeasurement/ A.TVTR.2	No Link
Measurement	U2 sv	Cardiff/E/05/ BTVTR12.VolSv.instMag.i[MX]	E05BCUMeasurement/ B.TVTR.12	No Link
Measurement	U3 sv	Cardiff/E/05/ CTVTR14.VolSv.instMag.i[MX]	E05BCUMeasurement/ C.TVTR.14	No Link
Measurement	U Neut sv	Cardiff/E/05/ NTVTR3.VolSv.instMag.i[MX]	E05BCUMeasurement/ N.TVTR.3	No Link
Measurement	I1 sv	Cardiff/E/05/ ATCTR5.AmpSv.instMag.i[MX]	E05BCUMeasurement/ A.TCTR.5	No Link
Measurement	I2 sv	Cardiff/E/05/ BTCTR1.AmpSv.instMag.f[MX]	E05BCUMeasurement/ B.TCTR.1	No Link
Measurement	I3 sv	Cardiff/E/05/ CTCTR4.AmpSv.instMag.i[MX]	E05BCUMeasurement/ C.TCTR.4	No Link
Measurement	I Neut sv	Cardiff/E/05/ NTCTR6.AmpSv.instMag.i[MX]	E05BCUMeasurement/ N.TCTR.6	No Link
Differential	Diff Operate	Cardiff/E/05/PDIF1.Op.general[ST]	E05BPUDifferential/PDIF.1	No Link
Differential	Diff Operate	Cardiff/E/05/ DIFFPTRC1.Op.general[ST]	E05BPUDifferential/ DIFF.PTRC.1	No Link
Differential	I1 sv	Cardiff/E/05/ ATCTR2.AmpSv.instMag.i[MX]	E05BPUDifferential/A.TCTR.2	No Link
Differential	I2 sv	Cardiff/E/05/ BTCTR3.AmpSv.instMag.f[MX]	E05BPUDifferential/B.TCTR.3	No Link
Differential	I3 sv	Cardiff/E/05/ CTCTR1.AmpSv.instMag.i[MX]	E05BPUDifferential/C.TCTR.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Differential	I Neut sv	Cardiff/E/05/ NTCTR4.AmpSv.instMag.i[MX]	E05BPUDifferential/N.TCTR.4	No Link
Differential	I1 sv	Cardiff/E/05/ ATCTR5.AmpSv.instMag.i[MX]	E05BPUDifferential/A.TCTR.5	No Link
Differential	I2 sv	Cardiff/E/05/ BTCTR6.AmpSv.instMag.f[MX]	E05BPUDifferential/B.TCTR.6	No Link
Differential	I3 sv	Cardiff/E/05/ CTCTR7.AmpSv.instMag.i[MX]	E05BPUDifferential/C.TCTR.7	No Link
Differential	I Neut sv	Cardiff/E/05/ NTCTR8.AmpSv.instMag.i[MX]	E05BPUDifferential/N.TCTR.8	No Link
Overcurrent	OC Start	Cardiff/E/05/PHPTOC1.Str.general[ST]	E05BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/05/ PHPTOC1.Op.general[ST]	E05BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/05/ OCPTRC1.Op.general[ST]	E05BUPOvercurrent/ OC.PTRC.1	No Link
Overcurrent	I1 sv	Cardiff/E/05/ ATCTR5.AmpSv.instMag.i[MX]	E05BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Cardiff/E/05/ BTCTR1.AmpSv.instMag.f[MX]	E05BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Cardiff/E/05/ CTCTR4.AmpSv.instMag.i[MX]	E05BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Cardiff/E/05/ NTCTR6.AmpSv.instMag.i[MX]	E05BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Cardiff/E/05/ TripPTRC1.Tr.general[ST]	E05PIUTrip/Trip.PTRC.1	No Link
BreakerFailure1	BF Start	Cardiff/E/05/RBRF1.Str.general[ST]	E05BCUBreakerFailure/RBRF.1	No Link
BreakerFailure1	Operate External	Cardiff/E/05/RBRF1.OpEx.general[ST]	E05BCUBreakerFailure/RBRF.1	No Link
BreakerFailure1	Operate Internal	Cardiff/E/05/RBRF1.OpIn.general[ST]	E05BCUBreakerFailure/RBRF.1	No Link
Interface	Local Operation	Cardiff/E/05/QB1/ QB1XSWI1.Loc.stVal[ST]	E05PIUQB1Interface/ QB1.XSWI.1	No Link
Interface	Switch Position	Cardiff/E/05/QB1/ QB1XSWI1.Pos.stVal[ST]	E05PIUQB1Interface/ QB1.XSWI.1	No Link
Control	Switch Command	Cardiff/E/05/QB1/ QB1CSWI1.Pos.Oper.ctlVal[CO]	E05BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Open	Cardiff/E/05/QB1/ QB1CSWI1.OpOpn.general[ST]	E05BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Close	Cardiff/E/05/QB1/ QB1CSWI1.OpCls.general[ST]	E05BCUQB1Control/ QB1.CSWI.1	No Link
Control	QB1 Position	Cardiff/E/05/QB1/ QB1CSWI1.Pos.stVal[ST]	E05BCUQB1Control/ QB1.CSWI.1	No Link
Interface	Local Operation	Cardiff/E/05/QA0/ QA0XCBR1.Loc.stVal[ST]	E05PIUQA0Interface/ QA0.XCBR.1	No Link
Interface	Switch Position	Cardiff/E/05/QA0/ QA0XCBR1.Pos.stVal[ST]	E05PIUQA0Interface/ QA0.XCBR.1	No Link
Control	Switch Command	Cardiff/E/05/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E05BCUQA0Control/ QA0.CSWI.2	No Link

Function	Process Name	Functional Name	Logical Device	Description
Contr ol	Operate Open	Cardiff/E/05/QA0/QA0CSWI2.OpOpn.general[ST]	E05BCUQA0Control/QA0.CSWI.2	No Link
Contr ol	Operate Close	Cardiff/E/05/QA0/QA0CSWI2.OpCls.general[ST]	E05BCUQA0Control/QA0.CSWI.2	No Link
Contr ol	QA0 Position	Cardiff/E/05/QA0/QA0CSWI2.Pos.stVal[ST]	E05BCUQA0Control/QA0.CSWI.2	No Link
L1	I1 sv	Cardiff/E/05/CT/ATCTR1.AmpSv.instMag.i[MX]	E05PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Cardiff/E/05/CT/BTCTR2.AmpSv.instMag.f[MX]	E05PIUCTCT/B.TCTR.2	No Link
L3	I3 sv	Cardiff/E/05/CT/CTCTR3.AmpSv.instMag.i[MX]	E05PIUCTCT/C.TCTR.3	No Link
L4	I Neut sv	Cardiff/E/05/CT/NTCTR4.AmpSv.instMag.i[MX]	E05PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Cardiff/E/05/VT/ATVTR1.VolSv.instMag.i[MX]	E05PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Cardiff/E/05/VT/BTVTR2.VolSv.instMag.i[MX]	E05PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Cardiff/E/05/VT/CTVTR3.VolSv.instMag.i[MX]	E05PIUVTVT/C.TVTR.3	No Link
L4	U Neut sv	Cardiff/E/05/VT/NTVTR4.VolSv.instMag.i[MX]	E05PIUVTVT/N.TVTR.4	No Link

Table 218. Signals of 05

3.3.7. Bay Cardiff/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 219. Specification for BCU

Role	Name	Type	Description
BPU	E06BPU	RED615	-

Table 220. Specification for BPU

Role	Name	Type	Description
BUP	E06BUP	P545	-

Table 221. Specification for BUP

Role	Name	Type	Description
PIU	E06PIU	SAM600	-

Table 222. Specification for PIU

Function	Process Name	Functional Name	Logical Device	Description
Measu remen t	I1	Cardiff/E/06/AMMXU1.A.phsA.cVal.mag.f[MX]	E06BCUMeasurement/A.MMXU.1	No Link
Measu remen t	I2	Cardiff/E/06/AMMXU1.A.phsB.cVal.mag.f[MX]	E06BCUMeasurement/A.MMXU.1	No Link
Measu remen t	I3	Cardiff/E/06/AMMXU1.A.phsC.cVal.mag.f[MX]	E06BCUMeasurement/A.MMXU.1	No Link
Measu remen t	I Neut	Cardiff/E/06/AMMXU1.A.neut.cVal.mag.f[MX]	E06BCUMeasurement/A.MMXU.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Measurement	U1	Cardiff/E/06/VMMXU2.PhV.phsA.cVal.mag.f[MX]	E06BCUMeasurement/V.MMXU.2	No Link
Measurement	U2	Cardiff/E/06/VMMXU2.PhV.phsB.cVal.mag.f[MX]	E06BCUMeasurement/V.MMXU.2	No Link
Measurement	U3	Cardiff/E/06/VMMXU2.PhV.phsC.cVal.mag.f[MX]	E06BCUMeasurement/V.MMXU.2	No Link
Measurement	U Neut	Cardiff/E/06/VMMXU2.PhV.net.cVal.mag.f[MX]	E06BCUMeasurement/V.MMXU.2	No Link
Measurement	U1 sv	Cardiff/E/06/ATVTR2.VolSv.instMag.i[MX]	E06BCUMeasurement/A.TVTR.2	No Link
Measurement	U2 sv	Cardiff/E/06/BTVTR12.VolSv.instMag.i[MX]	E06BCUMeasurement/B.TVTR.12	No Link
Measurement	U3 sv	Cardiff/E/06/CTVTR14.VolSv.instMag.i[MX]	E06BCUMeasurement/C.TVTR.14	No Link
Measurement	U Neut sv	Cardiff/E/06/NTVTR3.VolSv.instMag.i[MX]	E06BCUMeasurement/N.TVTR.3	No Link
Measurement	I1 sv	Cardiff/E/06/ATCTR5.AmpSv.instMag.i[MX]	E06BCUMeasurement/A.TCTR.5	No Link
Measurement	I2 sv	Cardiff/E/06/BTCTR1.AmpSv.instMag.f[MX]	E06BCUMeasurement/B.TCTR.1	No Link
Measurement	I3 sv	Cardiff/E/06/CTCTR4.AmpSv.instMag.i[MX]	E06BCUMeasurement/C.TCTR.4	No Link
Measurement	I Neut sv	Cardiff/E/06/NTCTR6.AmpSv.instMag.i[MX]	E06BCUMeasurement/N.TCTR.6	No Link
Distance	Start Z1	Cardiff/E/06/Z1PDIS1.Str.general[ST]	E06BPULD0/Z1.PDIS.1	No Link
Distance	Operate Z1	Cardiff/E/06/Z1PDIS1.Op.general[ST]	E06BPULD0/Z1.PDIS.1	No Link
Distance	Start Z2	Cardiff/E/06/Z2PDIS2.Str.general[ST]	E06BPULD0/Z2.PDIS.2	No Link
Distance	Operate Z2	Cardiff/E/06/Z2PDIS2.Op.general[ST]	E06BPULD0/Z2.PDIS.2	No Link
Distance	Start Z3	Cardiff/E/06/Z3PDIS3.Str.general[ST]	E06BPULD0/Z3.PDIS.3	No Link
Distance	Operate Z3	Cardiff/E/06/Z3PDIS3.Op.general[ST]	E06BPULD0/Z3.PDIS.3	No Link
Distance	DIS Operate	Cardiff/E/06/DISPTRC1.Op.general[ST]	E06BPULD0/DIS.PTRC.1	No Link
Distance	I1 sv	Cardiff/E/06/ATCTR2.AmpSv.instMag.i[MX]	E06BPULD0/A.TCTR.2	No Link
Distance	I2 sv	Cardiff/E/06/BTCTR3.AmpSv.instMag.f[MX]	E06BPULD0/B.TCTR.3	No Link
Distance	I3 sv	Cardiff/E/06/CTCTR7.AmpSv.instMag.i[MX]	E06BPULD0/C.TCTR.7	No Link
Distance	I Neut sv	Cardiff/E/06/NTCTR8.AmpSv.instMag.i[MX]	E06BPULD0/N.TCTR.8	No Link
Distance	U1 sv	Cardiff/E/06/ATVTR7.VolSv.instMag.i[MX]	E06BPULD0/A.TVTR.7	No Link
Distance	U2 sv	Cardiff/E/06/BTVTR8.VolSv.instMag.i[MX]	E06BPULD0/B.TVTR.8	No Link
Distance	U3 sv	Cardiff/E/06/CTVTR4.VolSv.instMag.i[MX]	E06BPULD0/C.TVTR.4	No Link
Distance	U Neut sv	Cardiff/E/06/NTVTR1.VolSv.instMag.i[MX]	E06BPULD0/N.TVTR.1	No Link

Function	Process Name	Functional Name	Logical Device	Description
Overcurrent	OC Start	Cardiff/E/06/PHPTOC1.Str.general[ST]	E06BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/06/ PHPTOC1.Op.general[ST]	E06BUPOvercurrent/ PH.PTOC.1	No Link
Overcurrent	OC Operate	Cardiff/E/06/ OCPTRC1.Op.general[ST]	E06BUPOvercurrent/ OC.PTRC.1	No Link
Overcurrent	I1 sv	Cardiff/E/06/ ATCTR5.AmpSv.instMag.i[MX]	E06BUPOvercurrent/A.TCTR.5	No Link
Overcurrent	I2 sv	Cardiff/E/06/ BTCTR1.AmpSv.instMag.f[MX]	E06BUPOvercurrent/B.TCTR.1	No Link
Overcurrent	I3 sv	Cardiff/E/06/ CTCTR4.AmpSv.instMag.i[MX]	E06BUPOvercurrent/C.TCTR.4	No Link
Overcurrent	I Neut sv	Cardiff/E/06/ NTCTR6.AmpSv.instMag.i[MX]	E06BUPOvercurrent/N.TCTR.6	No Link
Trip	Trip	Cardiff/E/06/ TripPTRC1.Tr.general[ST]	E06PIUTrip/Trip.PTRC.1	No Link
BreakerFailure	BF Start	Cardiff/E/06/RBRF1.Str.general[ST]	E06BCUBreakerFailure1/ RBRF.1	No Link
BreakerFailure	Operate External	Cardiff/E/06/RBRF1.OpEx.general[ST]	E06BCUBreakerFailure1/ RBRF.1	No Link
BreakerFailure	Operate Internal	Cardiff/E/06/RBRF1.OpIn.general[ST]	E06BCUBreakerFailure1/ RBRF.1	No Link
Interface	Local Operation	Cardiff/E/06/QB1/ QB1XSWI1.Loc.stVal[ST]	E06PIUQB1Interface/ QB1.XSWI.1	No Link
Interface	Switch Position	Cardiff/E/06/QB1/ QB1XSWI1.Pos.stVal[ST]	E06PIUQB1Interface/ QB1.XSWI.1	No Link
Control	Switch Command	Cardiff/E/06/QB1/ QB1CSWI1.Pos.Oper.ctlVal[CO]	E06BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Open	Cardiff/E/06/QB1/ QB1CSWI1.OpOpn.general[ST]	E06BCUQB1Control/ QB1.CSWI.1	No Link
Control	Operate Close	Cardiff/E/06/QB1/ QB1CSWI1.OpCls.general[ST]	E06BCUQB1Control/ QB1.CSWI.1	No Link
Control	QB1 Position	Cardiff/E/06/QB1/ QB1CSWI1.Pos.stVal[ST]	E06BCUQB1Control/ QB1.CSWI.1	No Link
Interface	Local Operation	Cardiff/E/06/QA0/ QA0XCBR1.Loc.stVal[ST]	E06PIUQA0Interface/ QA0.XCBR.1	No Link
Interface	Switch Position	Cardiff/E/06/QA0/ QA0XCBR1.Pos.stVal[ST]	E06PIUQA0Interface/ QA0.XCBR.1	No Link
Control	Switch Command	Cardiff/E/06/QA0/ QA0CSWI2.Pos.Oper.ctlVal[CO]	E06BCUQA0Control/ QA0.CSWI.2	No Link
Control	Operate Open	Cardiff/E/06/QA0/ QA0CSWI2.OpOpn.general[ST]	E06BCUQA0Control/ QA0.CSWI.2	No Link
Control	Operate Close	Cardiff/E/06/QA0/ QA0CSWI2.OpCls.general[ST]	E06BCUQA0Control/ QA0.CSWI.2	No Link
Control	QA0 Position	Cardiff/E/06/QA0/ QA0CSWI2.Pos.stVal[ST]	E06BCUQA0Control/ QA0.CSWI.2	No Link
L1	I1 sv	Cardiff/E/06/CT/ ATCTR1.AmpSv.instMag.i[MX]	E06PIUCTCT/A.TCTR.1	No Link
L2	I2 sv	Cardiff/E/06/CT/ BTCTR2.AmpSv.instMag.f[MX]	E06PIUCTCT/B.TCTR.2	No Link

Function	Process Name	Functional Name	Logical Device	Description
L3	I3 sv	Cardiff/E/06/CT/ CTCTR3.AmpSv.instMag.i[MX]	E06PIUCTCT/C.TCTR.3	No Link
L4	I Neut sv	Cardiff/E/06/CT/ NTCTR4.AmpSv.instMag.i[MX]	E06PIUCTCT/N.TCTR.4	No Link
L1	U1 sv	Cardiff/E/06/VT/ ATVTR1.VolSv.instMag.i[MX]	E06PIUVTVT/A.TVTR.1	No Link
L2	U2 sv	Cardiff/E/06/VT/ BTVTR2.VolSv.instMag.i[MX]	E06PIUVTVT/B.TVTR.2	No Link
L3	U3 sv	Cardiff/E/06/VT/ CTVTR3.VolSv.instMag.i[MX]	E06PIUVTVT/C.TVTR.3	No Link
L4	U Neut sv	Cardiff/E/06/VT/ NTVTR4.VolSv.instMag.i[MX]	E06PIUVTVT/N.TVTR.4	No Link

Table 223. 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	-			

4. System Communication Diagram

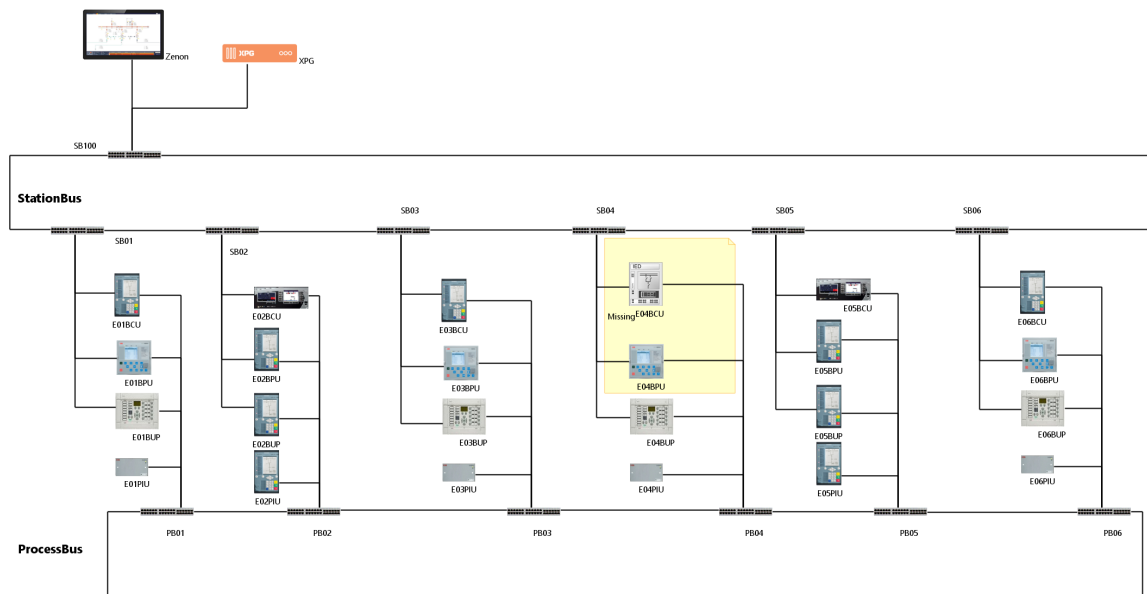


Figure 3. System Diagram

4.1. Subnetwork

Name		Type		
StationBus		8-MMS		

IED	Access Point	IP Address	IP Subnet	IP Gateway
Zenon	S1	10.10.0.1	255.255.255.0	10.10.0.1
XPG	AP1	10.10.0.2	255.255.255.0	10.10.0.1
E01BCU	E	172.24.7.111	255.255.255.0	172.24.7.1
E01BPU	AP1	192.168.0.254	255.255.255.0	192.168.2.1
E02BPU	E	10.16.60.65	255.255.255.0	0.0.0.0
E02BUP	E	10.16.60.65	255.255.255.0	0.0.0.0
E01BUP	AP1	10.10.0.1	255.255.255.0	0.0.0.0
E03BCU	E	192.168.0.1	255.255.255.0	10.10.0.1
E03BPU	AP1	192.168.0.2	255.255.255.0	10.10.0.1
E03BUP	AP1	192.168.0.3	255.255.255.0	10.10.0.1
E05BPU	E	192.168.0.5	255.255.255.0	10.10.0.1
E05BUP	E	192.168.0.6	255.255.255.0	10.10.0.1
E04BUP	AP1	192.168.0.9	255.255.255.0	10.10.0.1
E06BCU	E	192.168.0.10	255.255.255.0	10.10.0.1
E06BPU	AP1	192.168.0.11	255.255.255.0	10.10.0.1
E06BUP	AP1	192.168.0.12	255.255.255.0	10.10.0.1
E05BCU	S1	192.168.0.4	255.255.255.0	10.10.0.1
E02BCU	S1	127.0.0.1	255.255.255.0	127.0.0.0
E04BPU	AP1	192.168.0.254	255.255.255.0	192.168.2.1

IED	Access Point	IP Address	IP Subnet	IP Gateway
E04BCU	AP1	192.168.0.7	255.255.255.0	10.10.0.1

Table 224. 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
E02PIU	E	192.168.100.103	255.255.255.0	192.168.100.1
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
E03BPU	AP2	10.10.0.8	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
E05PIU	E	10.10.0.14	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
E05BCU	S2	10.10.0.11	255.255.255.0	10.10.0.1
E02BCU	S2	127.0.0.1	255.255.255.0	127.0.0.0
E01PIU	S1	10.10.0.1	255.255.255.0	0.0.0.0
E03PIU	S1	10.10.0.17	255.255.255.0	0.0.0.0
E04PIU	S1	10.10.0.16	255.255.255.0	0.0.0.0
E06PIU	S1	10.10.0.15	255.255.255.0	0.0.0.0
E04BPU	AP2	10.10.0.10	255.255.255.0	10.10.0.1
E04BCU	AP2	10.10.0.18	255.255.255.0	10.10.0.1

Table 225. Connected Access Points

4.2. IED Overview

4.2.1. IED Summary

Name	IED Type	Manufacturer	Used in Bays
XPG	gateway	no manufacturer	Cardiff
Zenon	ZENON	Copa-Data	Cardiff
E01BCU	6MD86	SIEMENS	01
E02PIU	6MU85	SIEMENS	02
E01BPU	RED615	ABB	01
E02BPU	7UT85	SIEMENS	02
E02BUP	7SJ85	SIEMENS	02

Name	IED Type	Manufacturer	Used in Bays
E01BUP	P545	ALSTOM	01
E03BUP	P545	ALSTOM	03
E03BCU	6MD86	SIEMENS	03
E03BPU	RED615	ABB	03
E04BUP	P545	ALSTOM	04
E05BPU	7UT85	SIEMENS	05
E05PIU	6MU85	SIEMENS	05
E05BUP	7SJ85	SIEMENS	05
E06BUP	P545	ALSTOM	06
E06BCU	6MD86	SIEMENS	06
E06BPU	RED615	ABB	06
E05BCU	C60	GE Multilin	05
E02BCU	C60	GE Multilin	02
E01PIU	SAM600	ABB	01
E03PIU	SAM600	ABB	03
E04PIU	SAM600	ABB	04
E06PIU	SAM600	ABB	06
E04BPU	RED615	ABB	04
E04BCU	MyType	Helinks	04

Table 226. 26 IEDs

4.3. Communication

4.3.1. Reports

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
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
E01BCUQA0Control/QA0CSWI2.Pos[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_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
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: E02PIUTrip/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02PIU	Logical Device	Trip	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
E02PIUTrip/TripPTRC1.Tr[ST]	Zenon, Zenon

Report Control: E01BPULD0/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BPU	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
E01BPULD0/DISPTRC1.Op[ST]	Zenon, Zenon
E01BPULD0/Z1PDIS1.Op[ST]	Zenon, Zenon
E01BPULD0/Z1PDIS1.Str[ST]	Zenon, Zenon
E01BPULD0/Z2PDIS2.Op[ST]	Zenon, Zenon
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/Z2PDIS2.Op[ST]	XPG, XPG
E01BPULD0/Z3PDIS3.Op[ST]	XPG, XPG

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/DIFFPTRC1.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/DIFFPTRC1.Op[ST]	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
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/OCPTRC1.Op[ST]	Zenon, Zenon
E02BUPOvercurrent/PHPTOC1.Op[ST]	Zenon, Zenon
E02BUPOvercurrent/PHPTOC1.Str[ST]	Zenon, Zenon

Report Control: E02BUPOvercurrent/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BUP	Logical Device	Overcurrent	Data Set	ds_brcb2
buffered	true	buffered Time	100	report confRev	10000
intg Pd	100	rpt ID	brcbb	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
E02BUPOvercurrent/OCPTRC1.Op[ST]	XPG, XPG
E02BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG

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
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/OCPTRC1.Op[ST]	Zenon, Zenon
E01BUPOvercurrent/PHPTOC1.Op[ST]	Zenon, Zenon
E01BUPOvercurrent/PHPTOC1.Str[ST]	Zenon, Zenon

Report Control: E01BUPSystem/LLN0.RCB.brcbB

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BUP	Logical Device	System	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
E01BUPOvercurrent/OCPTRC1.Op[ST]	XPG, XPG
E01BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG

Report Control: E03BUPSystem/LLN0.RCB.brcbA

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BUP	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

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

Source Data Attribute	Client
E03BUPOvercurrent/OCPTTC1.Op[ST]	Zenon, Zenon
E03BUPOvercurrent/PHPTOC1.Op[ST]	Zenon, Zenon
E03BUPOvercurrent/PHPTOC1.Str[ST]	Zenon, Zenon

Report Control: E03BUPSystem/LLN0.RCB.brcbB

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BUP	Logical Device	System	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
E03BUPOvercurrent/OCPTTC1.Op[ST]	XPG, XPG
E03BUPOvercurrent/PHPTOC1.Op[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
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

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
E03BCUQA0Control/QA0CSWI2.Pos[ST]	XPG, XPG
E03BCUQB1Control/QB1CSWI1.Pos[ST]	XPG, XPG

Report Control: E03BCUMeasurement/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	Logical Device	Measurement	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
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_urbc2
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: 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

Attribute	Value	Attribute	Value	Attribute	Value
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
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
E03BPULD0/DISPTRC1.Op[ST]	XPG, XPG
E03BPULD0/Z1PDIS1.Op[ST]	XPG, XPG
E03BPULD0/Z2PDIS2.Op[ST]	XPG, XPG
E03BPULD0/Z3PDIS3.Op[ST]	XPG, XPG

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/OCPTRC1.Op[ST]	Zenon, Zenon
E04BUPOvercurrent/PHPTOC1.Op[ST]	Zenon, Zenon
E04BUPOvercurrent/PHPTOC1.Str[ST]	Zenon, Zenon

Report Control: E04BUPSystem/LLN0.RCB.brcbB

Attribute	Value	Attribute	Value	Attribute	Value
IED	E04BUP	Logical Device	System	Data Set	ds_brcb2

Attribute	Value	Attribute	Value	Attribute	Value
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
E04BUPOvercurrent/OCPTRC1.Op[ST]	XPG, XPG
E04BUPOvercurrent/PHPTOC1.Op[ST]	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/DIFFPTRC1.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/DIFFPTRC1.Op[ST]	XPG, XPG

Report Control: E05PIUTrip/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05PIU	Logical Device	Trip	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

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

Source Data Attribute	Client
E05PIUTrip/TripPTRC1.Tr[ST]	Zenon, Zenon

Report Control: E05BUPOvercurrent/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BUP	Logical Device	Overcurrent	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
E05BUPOvercurrent/OCPTRC1.Op[ST]	Zenon, Zenon
E05BUPOvercurrent/PHPTOC1.Op[ST]	Zenon, Zenon
E05BUPOvercurrent/PHPTOC1.Str[ST]	Zenon, Zenon

Report Control: E05BUPOvercurrent/LLN0.RCB.brcbb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BUP	Logical Device	Overcurrent	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
E05BUPOvercurrent/OCPTRC1.Op[ST]	XPG, XPG
E05BUPOvercurrent/PHPTOC1.Op[ST]	XPG, XPG

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/OCPTRC1.Op[ST]	Zenon, Zenon
E06BUPOvercurrent/PHPTOC1.Op[ST]	Zenon, Zenon
E06BUPOvercurrent/PHPTOC1.Str[ST]	Zenon, Zenon

Report Control: E06BUPSystem/LLN0.RCB.brcbB

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BUP	Logical Device	System	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
E06BUPOvercurrent/OCPTRC1.Op[ST]	XPG, XPG
E06BUPOvercurrent/PHPTOC1.Op[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
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
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

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

Source Data Attribute	Client
E06BCUQA0Control/QA0CSWI2.Pos[ST]	XPG, XPG
E06BCUQB1Control/QB1CSWI1.Pos[ST]	XPG, XPG

Report Control: E06BCUMeasurement/LLN0.RCB.urbca

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	Logical Device	Measurement	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
E06BCUMeasurement/AMMXU1.A[MX]	Zenon, Zenon
E06BCUMeasurement/VMMXU2.PhV[MX]	Zenon, Zenon

Report Control: E06BCUMeasurement/LLN0.RCB.urbcb

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	Logical Device	Measurement	Data Set	ds_urbc2
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
E06BCUMeasurement/AMMXU1.A[MX]	XPG, XPG
E06BCUMeasurement/VMMXU2.PhV[MX]	XPG, XPG

Report Control: E06BPULD0/LLN0.RCB.brcba

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BPU	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
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/Z2PDIS2.Op[ST]	XPG, XPG
E06BPULD0/Z3PDIS3.Op[ST]	XPG, XPG

Report Control: E05BCUMaster/LLN0.RCB.BRCB01

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	Logical Device	Master	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
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: E05BCUMaster/LLN0.RCB.BRCB02

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	Logical Device	Master	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
E05BCUQA0Control/QA0CSWI2.Pos.stVal[ST]	XPG, XPG
E05BCUQB1Control/QB1CSWI1.Pos.stVal[ST]	XPG, XPG

Report Control: E05BCUMaster/LLN0.RCB.URCB01

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	Logical Device	Master	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: E05BCUMaster/LLN0.RCB.URCB02

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	Logical Device	Master	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: E02BCUMaster/LLN0.RCB.BRCB01

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	Logical Device	Master	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
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: E02BCUMaster/LLN0.RCB.BRCB02

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	Logical Device	Master	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
E02BCUQA0Control/QA0CSWI2.Pos.stVal[ST]	XPG, XPG
E02BCUQB1Control/QB1CSWI1.Pos.stVal[ST]	XPG, XPG

Report Control: E02BCUMaster/LLN0.RCB.URCB01

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	Logical Device	Master	Data Set	ds_urcb1

Attribute	Value	Attribute	Value	Attribute	Value
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
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: E02BCUMaster/LLN0.RCB.URCB02

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	Logical Device	Master	Data Set	ds_urb2
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: 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

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
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/Z2PDIS2.Op[ST]	XPG, XPG
E04BPULD0/Z3PDIS3.Op[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
Entry ID	false	Reason Code	false	Seq Num	true
Time Stamp	true	-	-	-	-

Source Data Attribute	Client
E04BCUQA0Control/QA0CSWI2.OpCls[ST]	Zenon, Zenon
E04BCUQA0Control/QA0CSWI2.OpOpn[ST]	Zenon, Zenon
E04BCUQA0Control/QA0CSWI2.Pos[ST]	Zenon, Zenon
E04BCUQB1Control/QB1CSWI1.OpCls[ST]	Zenon, Zenon

Source Data Attribute	Client
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
E04BCUQA0Control/QA0CSWI2.Pos[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_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
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

4.3.2. Unused Report Control Blocks

IED Name	Logical Device	Report ID	Buffered
E01BUP	System	urcbA	false
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
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	brcbC	true
E01BUP	System	brcbD	true
E01BUP	System	brcbE	true
E01BUP	System	brcbF	true
E01BUP	System	brcbG	true
E01BUP	System	brcbH	true
E03BUP	System	urcbA	false
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	brcbC	true
E03BUP	System	brcbD	true

IED Name	Logical Device	Report ID	Buffered
E03BUP	System	brcbE	true
E03BUP	System	brcbF	true
E03BUP	System	brcbG	true
E03BUP	System	brcbH	true
E04BUP	System	urcbA	false
E04BUP	System	urcbB	false
E04BUP	System	urcbC	false
E04BUP	System	urcbD	false
E04BUP	System	urcbE	false
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	brcbC	true
E04BUP	System	brcbD	true
E04BUP	System	brcbE	true
E04BUP	System	brcbF	true
E04BUP	System	brcbG	true
E04BUP	System	brcbH	true
E06BUP	System	urcbA	false
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

IED Name	Logical Device	Report ID	Buffered
E06BUP	System	urcbP	false
E06BUP	System	brcbC	true
E06BUP	System	brcbD	true
E06BUP	System	brcbE	true
E06BUP	System	brcbF	true
E06BUP	System	brcbG	true
E06BUP	System	brcbH	true
E05BCU	Master	BRCB03	true
E05BCU	Master	BRCB04	true
E05BCU	Master	BRCB05	true
E05BCU	Master	BRCB06	true
E05BCU	Master	BRCB07	true
E05BCU	Master	BRCB08	true
E05BCU	Master	BRCB09	true
E05BCU	Master	BRCB10	true
E05BCU	Master	BRCB11	true
E05BCU	Master	BRCB12	true
E05BCU	Master	BRCB13	true
E05BCU	Master	BRCB14	true
E05BCU	Master	BRCB15	true
E05BCU	Master	BRCB16	true
E05BCU	Master	BRCB17	true
E05BCU	Master	BRCB18	true
E05BCU	Master	BRCB19	true
E05BCU	Master	BRCB20	true
E05BCU	Master	URCB03	false
E05BCU	Master	URCB04	false
E05BCU	Master	URCB05	false
E05BCU	Master	URCB06	false
E05BCU	Master	URCB07	false
E05BCU	Master	URCB08	false
E05BCU	Master	URCB09	false
E05BCU	Master	URCB10	false
E05BCU	Master	URCB11	false
E05BCU	Master	URCB12	false
E05BCU	Master	URCB13	false
E05BCU	Master	URCB14	false
E02BCU	Master	BRCB03	true
E02BCU	Master	BRCB04	true
E02BCU	Master	BRCB05	true
E02BCU	Master	BRCB06	true

IED Name	Logical Device	Report ID	Buffered
E02BCU	Master	BRCB07	true
E02BCU	Master	BRCB08	true
E02BCU	Master	BRCB09	true
E02BCU	Master	BRCB10	true
E02BCU	Master	BRCB11	true
E02BCU	Master	BRCB12	true
E02BCU	Master	BRCB13	true
E02BCU	Master	BRCB14	true
E02BCU	Master	BRCB15	true
E02BCU	Master	BRCB16	true
E02BCU	Master	BRCB17	true
E02BCU	Master	BRCB18	true
E02BCU	Master	BRCB19	true
E02BCU	Master	BRCB20	true
E02BCU	Master	URCB03	false
E02BCU	Master	URCB04	false
E02BCU	Master	URCB05	false
E02BCU	Master	URCB06	false
E02BCU	Master	URCB07	false
E02BCU	Master	URCB08	false
E02BCU	Master	URCB09	false
E02BCU	Master	URCB10	false
E02BCU	Master	URCB11	false
E02BCU	Master	URCB12	false
E02BCU	Master	URCB13	false
E02BCU	Master	URCB14	false

4.3.3. Goose Messages

Publisher	GOOSE ID	Subscribers
E01BCU	gcb_f1	E02PIU, E05PIU
E01BCU	gcb_f2	E02PIU, E05PIU
E01BCU	gcb_l1	E02PIU, E05PIU
E01BCU	gcb_l2	E02PIU, E05PIU
E02PIU	gcb_f1	E02BCU
E02PIU	gcb_l1	E02BCU
E02PIU	gcb_l2	E02BCU
E01BPU	gcb_f1	
E02BPU	gcb_f1	E02PIU
E02BUP	gcb_f1	E02PIU
E01BUP	gcb01	
E03BUP	gcb01	
E03BCU	gcb_f1	E02PIU, E05PIU

Publisher	GOOSE ID	Subscribers
E03BCU	gcb_f2	E02PIU, E05PIU
E03BCU	gcb_l1	E02PIU, E05PIU
E03BCU	gcb_l2	E02PIU, E05PIU
E03BPU	gcb_f1	
E04BUP	gcb01	
E05BPU	gcb_f1	E05PIU
E05PIU	gcb_f1	E05BCU
E05PIU	gcb_l1	E05BCU
E05PIU	gcb_l2	E05BCU
E05BUP	gcb_f1	E05PIU
E06BUP	gcb01	
E06BCU	gcb_f1	E02PIU, E05PIU
E06BCU	gcb_l1	E02PIU, E05PIU
E06BCU	gcb_l2	E02PIU, E05PIU
E06BPU	gcb_f1	
E05BCU	GoCB01	E02PIU, E05PIU
E05BCU	GoCB02	E02PIU, E05PIU
E05BCU	GoCB03	E02PIU, E05PIU
E05BCU	GoCB04	E02PIU, E05PIU
E02BCU	GoCB01	E05PIU, E02PIU
E02BCU	GoCB02	E05PIU, E02PIU
E02BCU	GoCB03	E05PIU, E02PIU
E02BCU	GoCB04	E05PIU, E02PIU
E04BPU	gcb_f1	
E04BCU	gcb_f1	E02PIU, E05PIU
E04BCU	gcb_l1	E02PIU, E05PIU
E04BCU	gcb_l2	E02PIU, E05PIU

Table 227. GOOSE Messages Overview

GOOSE Message Details

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	
E02PIUQA0Interface/QA0.XCBR.1				-	
E05PIUQA0Interface/QA0.XCBR.1				-	

Table 228. Subscribers to: E01BCU

Subscribers to: E01BCUBreakerFailure1/RBRF1.OpIn.general[ST]	Internal Address
No subscriber for this data	NA

Table 229. Subscribers to: E01BCU

Goose Control:E01BCUMeasurement/LLN0.GCB.gcb_f2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E01BCU	DataSet	ds_gcb_f2	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E01BCUMeasurement/LLN0gcb_f2
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
No subscriber for this data	NA

Table 230. 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
No subscriber for this data	NA

Table 231. Subscribers to: E01BCU

Subscribers to: E01BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
No subscriber for this data	NA

Table 232. 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
No subscriber for this data	NA

Table 233. Subscribers to: E01BCU

Subscribers to: E01BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
No subscriber for this data	NA

Table 234. Subscribers to: E01BCU

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
E02BCUMaster/GGIO.3	-

Table 235. 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
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
E02BCUMaster/GGIO.3	-

Table 236. 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
E02BCUMaster/GGIO.3	-

Table 237. 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

Attribute	Value	Attribute	Value	Attribute	Value
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E01BPULD0/DISPTRC1.Op.general[ST]	Internal Address
No subscriber for this data	NA

Table 238. 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/DIFFPTRC1.Op.general[ST]	Internal Address
E02PIUTrip/Trip.PTRC.1	-

Table 239. 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/OCPTRC1.Op.general[ST]	Internal Address
E02PIUTrip/Trip.PTRC.1	-

Table 240. Subscribers to: E02BUP

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/OCPTRC1.Op.general[ST]	Internal Address
No subscriber for this data	NA

Table 241. Subscribers to: E01BUP

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/OCPTRC1.Op.general[ST]	Internal Address
No subscriber for this data	NA

Table 242. 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
E02PIUQA0Interface/QA0.XCBBR.1	-
E05PIUQA0Interface/QA0.XCBBR.1	-

Table 243. Subscribers to: E03BCU

Subscribers to: E03BCUBreakerFailure1/RBRF1.OpIn.general[ST]	Internal Address
No subscriber for this data	NA

Table 244. Subscribers to: E03BCU

Goose Control:E03BCUMeasurement/LLN0.GCB.gcb_f2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E03BCU	DataSet	ds_gcb_f2	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E03BCUMeasurement/ LLN0gcb_f2
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
No subscriber for this data	NA

Table 245. 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

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: E03BCUQA0Control/QA0CSWI2.OpCls.general[ST]	Internal Address
No subscriber for this data	NA

Table 246. Subscribers to: E03BCU

Subscribers to: E03BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
No subscriber for this data	NA

Table 247. 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
No subscriber for this data	NA

Table 248. Subscribers to: E03BCU

Subscribers to: E03BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
No subscriber for this data	NA

Table 249. Subscribers to: E03BCU

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
No subscriber for this data	NA

Table 250. Subscribers to: E03BPU

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

Attribute	Value	Attribute	Value	Attribute	Value
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E04BUPOvercurrent/OCPTRC1.Op.general[ST]	Internal Address
No subscriber for this data	NA

Table 251. Subscribers to: E04BUP

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/DIFFPTRC1.Op.general[ST]	Internal Address
E05PIUTrip/Trip.PTRC.1	-

Table 252. Subscribers to: E05BPU

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
E05BCUMaster/GGIO.3	-

Table 253. 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
E05BCUMaster/GGIO.3	-

Table 254. 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

Attribute	Value	Attribute	Value	Attribute	Value
Logical Device	Trip	DataSet Description	-	Goose appID	E05PIUTrip/LLN0gcb_l2
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	500	VLAN Priority	4

Subscribers to: E05PIUQB1Interface/QB1XSWI1.Pos.stVal[ST]	Internal Address
E05BCUMaster/GGIO.3	-

Table 255. Subscribers to: E05PIU

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/OCPTRC1.Op.general[ST]	Internal Address
E05PIUTrip/Trip.PTRC.1	-

Table 256. Subscribers to: E05BUP

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/OCPTRC1.Op.general[ST]	Internal Address
No subscriber for this data	NA

Table 257. 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
E02PIUQA0Interface/QA0.XCBR.1	-
E05PIUQA0Interface/QA0.XCBR.1	-

Table 258. Subscribers to: E06BCU

Subscribers to: E06BCUBreakerFailure1/RBRF1.OpIn.general[ST]	Internal Address
No subscriber for this data	NA

Table 259. 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_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E06BCUMeasurement/LLN0gcb_l1
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
No subscriber for this data	NA

Table 260. Subscribers to: E06BCU

Subscribers to: E06BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
No subscriber for this data	NA

Table 261. Subscribers to: E06BCU

Goose Control:E06BCUMeasurement/LLN0.GCB.gcb_l2

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E06BCU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	Measurement	DataSet Description	-	Goose appID	E06BCUMeasurement/LLN0gcb_l2
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
No subscriber for this data	NA

Table 262. Subscribers to: E06BCU

Subscribers to: E06BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
No subscriber for this data	NA

Table 263. Subscribers to: E06BCU

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
No subscriber for this data	NA

Table 264. Subscribers to: E06BPU

Goose Control:E05BCUMaster/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	Master	DataSet Description	-	Goose appID	E05BCUMaster/ 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
E05PIUQA0Interface/QA0.XCBR.1	-

Table 265. Subscribers to: E05BCU

Goose Control:E05BCUMaster/LLN0.GCB.GoCB02

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	DataSet	ds_gcb_f2	MAC Address	01-0C-CD-01-00-00
Logical Device	Master	DataSet Description	-	Goose appID	E05BCUMaster/ LLN0GoCB02
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

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

Table 266. Subscribers to: E05BCU

Goose Control:E05BCUMaster/LLN0.GCB.GoCB03

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	DataSet	ds_gcb_l1	MAC Address	01-0C-CD-01-00-00
Logical Device	Master	DataSet Description	-	Goose appID	E05BCUMaster/ LLN0GoCB03
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

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

Table 267. Subscribers to: E05BCU

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

Table 268. Subscribers to: E05BCU

Goose Control:E05BCUMaster/LLN0.GCB.GoCB04

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E05BCU	DataSet	ds_gcb_l2	MAC Address	01-0C-CD-01-00-00
Logical Device	Master	DataSet Description	-	Goose appID	E05BCUMaster/ LLN0GoCB04
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E05BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Internal Address
E05PIUQB1Interface/QB1.XSWI.1	-
E05PIUQA0Interface/QA0.XCBR.1	-

Table 269. Subscribers to: E05BCU

Subscribers to: E05BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
E05PIUQB1Interface/QB1.XSWI.1	-
E05PIUQA0Interface/QA0.XCBR.1	-

Table 270. Subscribers to: E05BCU

Goose Control:E02BCUMaster/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	Master	DataSet Description	-	Goose appID	E02BCUMaster/ 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
E05PIUQA0Interface/QA0.XCBR.1	-

Table 271. Subscribers to: E02BCU

Goose Control:E02BCUMaster/LLN0.GCB.GoCB02

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	DataSet	ds_gcb_f2	MAC Address	01-0C-CD-01-00-00
Logical Device	Master	DataSet Description	-	Goose appID	E02BCUMaster/ LLN0GoCB02
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
No subscriber for this data	NA

Table 272. Subscribers to: E02BCU

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

Table 273. Subscribers to: E02BCU

Goose Control:E02BCUMaster/LLN0.GCB.GoCB03

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	DataSet	ds_gcb_11	MAC Address	01-0C-CD-01-00-00
Logical Device	Master	DataSet Description	-	Goose appID	E02BCUMaster/ LLN0GoCB03
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

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

Table 274. Subscribers to: E02BCU

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

Table 275. Subscribers to: E02BCU

Goose Control:E02BCUMaster/LLN0.GCB.GoCB04

Helinks default Goose Control Block

Attribute	Value	Attribute	Value	Attribute	Value
IED	E02BCU	DataSet	ds_gcb_12	MAC Address	01-0C-CD-01-00-00
Logical Device	Master	DataSet Description	-	Goose appID	E02BCUMaster/ LLN0GoCB04
confRev	10000	Max duration (ms)	10000	VLAN ID	000
GSE appID	0000	Min duration (ms)	5	VLAN Priority	4

Subscribers to: E02BCUQB1Control/QB1CSWI1.OpCls.general[ST]	Internal Address
E02PIUQB1Interface/QB1.XSWI.1	-
E02PIUQA0Interface/QA0.XCBR.1	-

Table 276. Subscribers to: E02BCU

Subscribers to: E02BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
E02PIUQB1Interface/QB1.XSWI.1	-
E02PIUQA0Interface/QA0.XCBR.1	-

Table 277. Subscribers to: E02BCU

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
No subscriber for this data	NA

Table 278. Subscribers to: E04BPU

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: E04BCUBreakerFailure/RBRF1.OpEx.general[ST]	Internal Address
E02PIUQA0Interface/QA0.XCBR.1	-
E05PIUQA0Interface/QA0.XCBR.1	-

Table 279. Subscribers to: E04BCU

Subscribers to: E04BCUBreakerFailure/RBRF1.OpIn.general[ST]	Internal Address
No subscriber for this data	NA

Table 280. 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
No subscriber for this data	NA

Table 281. Subscribers to: E04BCU

Subscribers to: E04BCUQA0Control/QA0CSWI2.OpOpn.general[ST]	Internal Address
No subscriber for this data	NA

Table 282. 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
No subscriber for this data	NA

Table 283. Subscribers to: E04BCU

Subscribers to: E04BCUQB1Control/QB1CSWI1.OpOpn.general[ST]	Internal Address
No subscriber for this data	NA

Table 284. Subscribers to: E04BCU