

Definitions of Historic Events for IntelliRupterR3

Table 1. Event Categories and Codes

Category Name	Category Code
DAT	1
BMS	2
DNP	3
LOG	4
SUM	5
DPX	6
DPR	7
RTD	8
BMM	9
IPM	10
CFM	11
ATX	12
IMS	13
IPM2	14
ACW	15
WFC	16
PNG	17
OCF	18
MSC	19
PRO	20
C2H	21
IIM	22
WFM	23
UTL	24
LRM	25
NET	27
EVT	30
RTL	31
SUP	32
ECM	33
GOS	34
PMU	35

Table 2. Types of Additional Data Items for Historic Events (357 items)

Data Type Name	Represented As	Type Information									
AbnormalRestartCode	UINT16	Abnormal restart details: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RestrtTooOft</td> <td>Restarts occurs too frequently</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	RestrtTooOft	Restarts occurs too frequently
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Definitions of Historic Events

		2	TSrcNoRTCGPS	Time source is not RTC or GPS at abnormal restart																																																																					
		3	InvalidInitStatus	Invalid Init Status																																																																					
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ActiveURBEClassMask	UINT16	<p>Bit mask - zero or more of the following OR-ed 0x02 - class 1 active 0x04 - class 2 active 0x08 - class 3 active</p> <table border="1"> <thead> <tr><th colspan="3">Enumeration</th></tr> <tr><th>Binary</th><th>Value</th><th>Description</th></tr> </thead> <tbody> <tr><td>0</td><td>None</td><td>No URBE</td></tr> <tr><td>2</td><td>Cls1Active</td><td>Class 1 active</td></tr> <tr><td>4</td><td>Cls2Active</td><td>Class 2 active</td></tr> <tr><td>6</td><td>Cls12Active</td><td>Class 1 and 2 active</td></tr> <tr><td>8</td><td>Cls3Active</td><td>Class 3 active</td></tr> <tr><td>10</td><td>Cls13Active</td><td>Class 1 and 3 active</td></tr> <tr><td>12</td><td>Cls23Active</td><td>Class 2 and 3 active</td></tr> <tr><td>14</td><td>Cls123Active</td><td>Class 1 and 2 and 3 active</td></tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	None	No URBE	2	Cls1Active	Class 1 active	4	Cls2Active	Class 2 active	6	Cls12Active	Class 1 and 2 active	8	Cls3Active	Class 3 active	10	Cls13Active	Class 1 and 3 active	12	Cls23Active	Class 2 and 3 active	14	Cls123Active	Class 1 and 2 and 3 active
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ClearPRBlocker	UINT16	<table border="1"> <thead> <tr><th colspan="3">Enumeration</th></tr> <tr><th>Binary</th><th>Value</th><th>Description</th></tr> </thead> <tbody> <tr><td>0</td><td>MasterBlks</td><td>Master Blocks</td></tr> <tr><td>1</td><td>SetptBlks</td><td>Setpoint Blocks</td></tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	MasterBlks	Master Blocks	1	SetptBlks	Setpoint Blocks															
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Definitions of Historic Events

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42	HotLineTag	HotLineTag																																																																																													
43	TstBackfeed	TstBackfeed																																																																																													
44	ReplacePrf	ReplacePrf																																																																																													
45	EnablePrf	EnablePrf																																																																																													
47	SetPrf	SetPrf																																																																																													
48	ElementEn	ElementEn																																																																																													
49	LoadLog	Load Log																																																																																													
50	ClearMan	Clear Man																																																																																													
51	SetRmtOffAlert	Set Remote Off Alert																																																																																													
52	ClrOCTripStatus	Clear O/C Trip Statuses																																																																																													

Definitions of Historic Events

		<table border="1"> <tbody> <tr><td>53</td><td>SetWIFI</td><td>Set WIFI</td></tr> <tr><td>54</td><td>SetBatAlert</td><td>Set Bat Alert</td></tr> <tr><td>55</td><td>ITIIReady</td><td>ITII Ready</td></tr> <tr><td>56</td><td>ResetOC</td><td>Reset OC</td></tr> <tr><td>57</td><td>LoopsReady</td><td>Loops Ready</td></tr> <tr><td>58</td><td>SetClearErr</td><td>SetClearErr</td></tr> <tr><td>59</td><td>CECShift</td><td>CEC Shift</td></tr> <tr><td>60</td><td>ClearLatchOC</td><td>Clear Latched OC</td></tr> <tr><td>61</td><td>InformMode</td><td>Inform Mode</td></tr> <tr><td>62</td><td>ClearWarnings</td><td>Clear Warnings</td></tr> <tr><td>63</td><td>ClearAlarms</td><td>Clear Alarms</td></tr> <tr><td>64</td><td>OpenPoles</td><td>Open Poles</td></tr> <tr><td>65</td><td>ClosePoles</td><td>Close Poles</td></tr> <tr><td>66</td><td>SinglePhOper</td><td>Block 1-phase Ops</td></tr> <tr><td>67</td><td>ClrLeakCnt</td><td>Clear Leakage Time Accum</td></tr> <tr><td>68</td><td>ManLevrCls</td><td>Manual Lever Close</td></tr> <tr><td>69</td><td>ManLevrOpn</td><td>Manual Lever Open</td></tr> <tr><td>72</td><td>GOOSEAction</td><td>GOOSE Action</td></tr> <tr><td>73</td><td>ClearSectFault</td><td>Clear Sectionalizing Fault</td></tr> <tr><td>112</td><td>ATXRun</td><td>ATX Run</td></tr> <tr><td>113</td><td>ATXHold</td><td>ATX Hold</td></tr> <tr><td>114</td><td>FullStatusUpdate</td><td>Full Status Update</td></tr> </tbody> </table>	53	SetWIFI	Set WIFI	54	SetBatAlert	Set Bat Alert	55	ITIIReady	ITII Ready	56	ResetOC	Reset OC	57	LoopsReady	Loops Ready	58	SetClearErr	SetClearErr	59	CECShift	CEC Shift	60	ClearLatchOC	Clear Latched OC	61	InformMode	Inform Mode	62	ClearWarnings	Clear Warnings	63	ClearAlarms	Clear Alarms	64	OpenPoles	Open Poles	65	ClosePoles	Close Poles	66	SinglePhOper	Block 1-phase Ops	67	ClrLeakCnt	Clear Leakage Time Accum	68	ManLevrCls	Manual Lever Close	69	ManLevrOpn	Manual Lever Open	72	GOOSEAction	GOOSE Action	73	ClearSectFault	Clear Sectionalizing Fault	112	ATXRun	ATX Run	113	ATXHold	ATX Hold	114	FullStatusUpdate	Full Status Update
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CommandsFlush	UINT16	<p>Counter of MCU commands have been flushed after DSP restart</p> <table border="1"> <thead> <tr><th colspan="2">Numeric Type, Range: 0-100</th></tr> <tr><th>Action</th><th>Value</th></tr> </thead> <tbody> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </tbody> </table>	Numeric Type, Range: 0-100		Action	Value	Multiplier	1	Adder	0																																																										
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CommErrorCode	UINT16	<p>Communications error code</p> <table border="1"> <thead> <tr><th colspan="2">Numeric Type, Range: 0-65535</th></tr> <tr><th>Action</th><th>Value</th></tr> </thead> <tbody> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																																																										
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2	CIDIInternalDNP	CID IInternal DNP																																																																		

3	CIDCoach	CID Coach
4	CIDRunner	CID Runner
5	CIDContractAgt	CID Contract Agent
6	CIDNetlistXfer	CID Netlist Xfer
7	CIDCoraAlleyOop	CID CoraAlley Oop
8	CIDIT2Events	CID IT2 Events
9	CIDProtection	CID Protection
10	CIDDATLoadMgmt	CID DAT Load Mgmt
11	CIDCECSignal	CID CEC Signal
12	CIDDIag	CID Diag
13	CIDRemoteXmit	CID Remote Xmit
16	CIDNETObjMgmt	CID NET Object Mgmt
17	CIDNETRunner0	CID NET Runner 0
18	CIDNETRunner1	CID NET Runner 1
19	CIDNETRunner2	CID NET Runner 2
20	CIDNETRunner3	CID NET Runner 3
21	CIDNETRunner4	CID NET Runner 4
22	CIDNETRunner5	CID NET Runner 5
23	CIDNETRunner6	CID NET Runner 6
24	CIDNETRunner7	CID NET Runner 7
25	CIDNETRunner8	CID NET Runner 8
26	CIDNETRunner9	CID NET Runner 9
27	CIDNETRunner10	CID NET Runner 10
28	CIDNETRunner11	CID NET Runner 11
29	CIDNETRunner12	CID NET Runner 12
30	CIDNETRunner13	CID NET Runner 13
31	CIDNETRunner14	CID NET Runner 14
32	CIDNETRunner15	CID NET Runner 15

ContractState

UINT16

Contract State.

Enumeration		
Binary	Value	Description
1	CActive	Contract state active
2	CReqPend	Contract state request pending
3	CReqUnsent	Contract state request unsent
4	CReqTrav	Contract state request traveling
5	CReqAccept	Contract state request accepted
6	CReqDecline	Contract state request declined
7	CReqDeclContd	Contract state request decline continuing
8	CDslveStart	Contract state dissolve start
9	CDslveContd	Contract state dissolve continue
10	CMaintStart	Contract state maintenance start
11	CMaintTickl	Contract state maintenance tickle
12	CMaintTrav	Contract state maintenance travel
13	CMTravNoFind	Contract state maintenance travel not found
14	CMTrRetNoFnd	Contract state maint travel return not found

Definitions of Historic Events

		<table border="1"> <tr> <td>15</td> <td>CMTicklNoFind</td> <td>Contract state maintenance tickle not found</td> </tr> <tr> <td>16</td> <td>CMTiRetNoFnd</td> <td>Contract state maint tickle return not found</td> </tr> <tr> <td>17</td> <td>CMaintReact</td> <td>Contract state maintenance reactivate contract</td> </tr> <tr> <td>18</td> <td>CMNoReact</td> <td>Contract state maint don't reactivate here - continue</td> </tr> <tr> <td>19</td> <td>CChk2ndFld</td> <td>Contract state request - check 2nd field</td> </tr> </table>	15	CMTicklNoFind	Contract state maintenance tickle not found	16	CMTiRetNoFnd	Contract state maint tickle return not found	17	CMaintReact	Contract state maintenance reactivate contract	18	CMNoReact	Contract state maint don't reactivate here - continue	19	CChk2ndFld	Contract state request - check 2nd field						
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19	CChk2ndFld	Contract state request - check 2nd field																					
ControlCode	UINT16	<p>Control Number</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-15</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-15		Action	Value	Multiplier	1	Adder	0													
Numeric Type, Range: 0-15																							
Action	Value																						
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Core2Exceptions	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>FlashMemECCError</td> <td>Flash Memory ECC Error</td> </tr> <tr> <td>2</td> <td>IntlRAMECCParErr</td> <td>Internal RAM ECC_Parity Error</td> </tr> <tr> <td>4</td> <td>Core2BadInstruct</td> <td>Core2 Illegal Ins</td> </tr> <tr> <td>8</td> <td>Core2HeartbeatStop</td> <td>Core2 Heartbeat Stopped</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	FlashMemECCError	Flash Memory ECC Error	2	IntlRAMECCParErr	Internal RAM ECC_Parity Error	4	Core2BadInstruct	Core2 Illegal Ins	8	Core2HeartbeatStop	Core2 Heartbeat Stopped			
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Binary	Value	Description																					
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2	IntlRAMECCParErr	Internal RAM ECC_Parity Error																					
4	Core2BadInstruct	Core2 Illegal Ins																					
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Core2Health	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Healthy</td> <td>Healthy</td> </tr> <tr> <td>2</td> <td>InitFail</td> <td>Init Fail</td> </tr> <tr> <td>3</td> <td>CatastrophicErr</td> <td>Catastrophic Core2 Error</td> </tr> <tr> <td>5</td> <td>MissedHeartBeat</td> <td>Missed HeartBeat</td> </tr> <tr> <td>6</td> <td>PendingReset</td> <td>Pending Reset</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	Healthy	Healthy	2	InitFail	Init Fail	3	CatastrophicErr	Catastrophic Core2 Error	5	MissedHeartBeat	Missed HeartBeat	6	PendingReset	Pending Reset
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CurrentCycle	UINT16	<p>Current position of the sequential file to be written</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0													
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CurrentDirection	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>XtoY</td> <td>X->Y</td> </tr> <tr> <td>2</td> <td>YtoX</td> <td>Y->X</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	XtoY	X->Y	2	YtoX	Y->X									
Enumeration																							
Binary	Value	Description																					
1	XtoY	X->Y																					
2	YtoX	Y->X																					
CycleNumber	UINT16	<p>Cycle number</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0													
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DataLength	UINT16	<p>Length of the data</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0													
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DataReadStatus	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>DataReadGood</td> <td>Data Read Good</td> </tr> <tr> <td>1</td> <td>DataReadError</td> <td>Data Read Error</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	DataReadGood	Data Read Good	1	DataReadError	Data Read Error			
Enumeration																	
Binary	Value	Description															
0	DataReadGood	Data Read Good															
1	DataReadError	Data Read Error															
DATARNR	UINT16	<p>Data runnes working within the time limits</p> <table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NETXDATRNR</td> <td>Runners are working within timeouts when set</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	NETXDATRNR	Runners are working within timeouts when set						
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Numeric Type, Range: 0-65535																	
Action	Value																
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DefProfileCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Normal</td> <td>Normal</td> </tr> <tr> <td>2</td> <td>Alternate</td> <td>Alternate</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	Normal	Normal	2	Alternate	Alternate			
Enumeration																	
Binary	Value	Description															
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DestinationIndex	UINT16	<p>Destination Index</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0							
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Action	Value																
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DestNodeID	UINT16	<p>NET Destination Node ID</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0							
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Enumeration																	
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Definitions of Historic Events

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0	None	No Term												
1	TermX	Term X												
2	TermY	Term Y												
3	BothTerm	Both Term												
dev	UINT16	<p>Device Type, either a substation or not a substation</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0				
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DeviceIndex	UINT16	<p>local device number of the FN Runner Source Device</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0				
Numeric Type, Range: 0-65535														
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DeviceNumber	UINT16	<p>Working runner source list in the Runner Source Control</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0				
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Multiplier	1													
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DeviceWirepairs	UINT16	<p>Number of Device-Wire pairs from prep function</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0				
Numeric Type, Range: 0-65535														
Action	Value													
Multiplier	1													
Adder	0													
DiagTestType	UINT16	<p>Type of diagnostic test</p> <table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Scheduled</td> <td>Scheduled</td> </tr> <tr> <td>1</td> <td>Quick</td> <td>Quick</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Scheduled	Scheduled	1	Quick	Quick
Enumeration														
Binary	Value	Description												
0	Scheduled	Scheduled												
1	Quick	Quick												
Direction	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Forward</td> <td>Forward</td> </tr> <tr> <td>2</td> <td>Reverse</td> <td>Reverse</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	Forward	Forward	2	Reverse	Reverse
Enumeration														
Binary	Value	Description												
1	Forward	Forward												
2	Reverse	Reverse												
DivBy10	UINT16	<p>Divide by 10</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>0.1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	0.1	Adder	0				
Numeric Type, Range: 0-65535														
Action	Value													
Multiplier	0.1													
Adder	0													
DNPAddress	UINT16	<p>Values represented in hexadecimal code</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 1-65519</th> </tr> </thead> </table>	Numeric Type, Range: 1-65519											
Numeric Type, Range: 1-65519														

		<table border="1"> <thead> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Presentation</th> </tr> </thead> <tbody> <tr> <td>Binary {0:X2}</td> </tr> </tbody> </table>	Action	Value	Multiplier	1	Adder	0	Presentation	Binary {0:X2}							
Action	Value																
Multiplier	1																
Adder	0																
Presentation																	
Binary {0:X2}																	
DNPAppControl	UINT16	<p>DNP application control byte</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-255</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-255		Action	Value	Multiplier	1	Adder	0							
Numeric Type, Range: 0-255																	
Action	Value																
Multiplier	1																
Adder	0																
DNPAppFunctionCode	UINT16	<p>DNP Application Function Code</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-255</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-255		Action	Value	Multiplier	1	Adder	0							
Numeric Type, Range: 0-255																	
Action	Value																
Multiplier	1																
Adder	0																
DNPDLAction	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RecReinit</td> <td>record reinit</td> </tr> <tr> <td>2</td> <td>ResetSeqOnly</td> <td>reset seq num only</td> </tr> <tr> <td>3</td> <td>NewPeer</td> <td>new peer added</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	RecReinit	record reinit	2	ResetSeqOnly	reset seq num only	3	NewPeer	new peer added
Enumeration																	
Binary	Value	Description															
1	RecReinit	record reinit															
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DNPObjectType	UINT16	<p>DNP Object Type</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-255</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-255		Action	Value	Multiplier	1	Adder	0							
Numeric Type, Range: 0-255																	
Action	Value																
Multiplier	1																
Adder	0																
DNPObjectVariation	UINT16	<p>DNP Object Variation</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-255</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-255		Action	Value	Multiplier	1	Adder	0							
Numeric Type, Range: 0-255																	
Action	Value																
Multiplier	1																
Adder	0																
DNPOutputBlockStatusCode	UINT16	<p>DNP Output Block Status Code</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-255</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-255		Action	Value	Multiplier	1	Adder	0							
Numeric Type, Range: 0-255																	
Action	Value																
Multiplier	1																
Adder	0																
DNPPointCode	UINT16	<p>Internal DNP point code</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0							
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DNPPointType	UINT16	<table border="1"> <thead> <tr> <th colspan="2">Enumeration</th> </tr> </thead> <tbody> </tbody> </table>	Enumeration														
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Definitions of Historic Events

		<table border="1"> <thead> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Binary</td> <td>binary</td> </tr> <tr> <td>2</td> <td>Analog</td> <td>analog</td> </tr> <tr> <td>3</td> <td>Counter</td> <td>counter</td> </tr> </tbody> </table>	Binary	Value	Description	1	Binary	binary	2	Analog	analog	3	Counter	counter														
Binary	Value	Description																										
1	Binary	binary																										
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DNPTranspFunctionCode	UINT16	<p>DNP transport function code</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-255</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-255		Action	Value	Multiplier	1	Adder	0																		
Numeric Type, Range: 0-255																												
Action	Value																											
Multiplier	1																											
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DNPTransportHeader	UINT16	<p>DNP transport header byte</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-255</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-255		Action	Value	Multiplier	1	Adder	0																		
Numeric Type, Range: 0-255																												
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DPRError	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SeqNum</td> <td>Seq Num</td> </tr> <tr> <td>2</td> <td>BufferFull</td> <td>Buffer Full</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	SeqNum	Seq Num	2	BufferFull	Buffer Full														
Enumeration																												
Binary	Value	Description																										
1	SeqNum	Seq Num																										
2	BufferFull	Buffer Full																										
DriverValue	UINT16	<table border="1"> <thead> <tr> <th colspan="2">Union</th> </tr> <tr> <th>Value</th> <th>Data Type</th> </tr> </thead> <tbody> <tr> <td>OvVolt</td> <td>DriverValueGeneric</td> </tr> <tr> <td>UndVolt</td> <td>DriverValueGeneric</td> </tr> <tr> <td>OvFreq</td> <td>DriverValueGeneric</td> </tr> <tr> <td>UndFreq</td> <td>DriverValueGeneric</td> </tr> <tr> <td>ColdLoad</td> <td>DriverValueGeneric</td> </tr> <tr> <td>OvCurr</td> <td>DriverValueGeneric</td> </tr> <tr> <td>SyncChk</td> <td>DriverValueGeneric</td> </tr> <tr> <td>GoodSrc</td> <td>DriverValueGeneric</td> </tr> <tr> <td>PhLoss</td> <td>DriverValueGeneric</td> </tr> <tr> <td>SEFCntr</td> <td>DriverValueGeneric</td> </tr> <tr> <td>ROCOF</td> <td>DriverValueGenericSigned</td> </tr> </tbody> </table>	Union		Value	Data Type	OvVolt	DriverValueGeneric	UndVolt	DriverValueGeneric	OvFreq	DriverValueGeneric	UndFreq	DriverValueGeneric	ColdLoad	DriverValueGeneric	OvCurr	DriverValueGeneric	SyncChk	DriverValueGeneric	GoodSrc	DriverValueGeneric	PhLoss	DriverValueGeneric	SEFCntr	DriverValueGeneric	ROCOF	DriverValueGenericSigned
Union																												
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ROCOF	DriverValueGenericSigned																											
DriverValueCurrent	UINT16	<p>A</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																		
Numeric Type, Range: 0-65535																												
Action	Value																											
Multiplier	1																											
Adder	0																											
DriverValueFrequency	INT16	<p>Hz</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: -32768-32767</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>0.001953125</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: -32768-32767		Action	Value	Multiplier	0.001953125	Adder	0																		
Numeric Type, Range: -32768-32767																												
Action	Value																											
Multiplier	0.001953125																											
Adder	0																											
DriverValueGeneric	UINT16	This type is a union of DriverValueCurrent and DriverValueVoltage and DriverValueFrequency																										

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DriverValueGenericSigned	INT16	<p>This type is a union of DriverValueCurrent and DriverValueVoltage and DriverValueFrequency, signed for ROCOF</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: -32768-32767</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: -32768-32767		Action	Value	Multiplier	1	Adder	0																			
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Action	Value																												
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DriverValueVoltage	UINT16	<p>V</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																			
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DSPTimeSource	UINT16	<table border="1"> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> <tr> <td>0</td> <td>IntlDSPOsc</td> <td>internal DSP oscillator</td> </tr> <tr> <td>1</td> <td>MCUintIOsc</td> <td>MCU internal oscillator</td> </tr> <tr> <td>2</td> <td>MCURTC</td> <td>MCU RTC</td> </tr> <tr> <td>3</td> <td>MCUGPS</td> <td>MCU GPS</td> </tr> <tr> <td>4</td> <td>IEEE1588</td> <td>IEEE-1588</td> </tr> </table>	Enumeration			Binary	Value	Description	0	IntlDSPOsc	internal DSP oscillator	1	MCUintIOsc	MCU internal oscillator	2	MCURTC	MCU RTC	3	MCUGPS	MCU GPS	4	IEEE1588	IEEE-1588						
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Binary	Value	Description																											
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3	MCUGPS	MCU GPS																											
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ECCMemoryError	UINT16	<table border="1"> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> <tr> <td>1</td> <td>Warning</td> <td>Warning</td> </tr> <tr> <td>2</td> <td>Severe</td> <td>Severe</td> </tr> </table>	Enumeration			Binary	Value	Description	1	Warning	Warning	2	Severe	Severe															
Enumeration																													
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ECMFatalError	UINT16	<table border="1"> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> <tr> <td>1</td> <td>IllegalState</td> <td>Illegal State</td> </tr> <tr> <td>2</td> <td>IPCInit</td> <td>IPC Init</td> </tr> <tr> <td>3</td> <td>IPCDeinit</td> <td>IPC Deinit</td> </tr> <tr> <td>4</td> <td>WiFiStateSnd</td> <td>WiFi State Send</td> </tr> <tr> <td>5</td> <td>DataRetrveSnd</td> <td>Data Retrieve Send</td> </tr> <tr> <td>6</td> <td>ACKSend</td> <td>ACK Send</td> </tr> <tr> <td>7</td> <td>FatalCallback</td> <td>Fatal Callback</td> </tr> </table>	Enumeration			Binary	Value	Description	1	IllegalState	Illegal State	2	IPCInit	IPC Init	3	IPCDeinit	IPC Deinit	4	WiFiStateSnd	WiFi State Send	5	DataRetrveSnd	Data Retrieve Send	6	ACKSend	ACK Send	7	FatalCallback	Fatal Callback
Enumeration																													
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ElemDisabledByDE	UINT16	<table border="1"> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> <tr> <td>0</td> <td>Pole1TermX</td> <td>Pole1TermX</td> </tr> <tr> <td>1</td> <td>Pole2TermX</td> <td>Pole2TermX</td> </tr> <tr> <td>2</td> <td>Pole3TermX</td> <td>based on phase torques</td> </tr> <tr> <td>3</td> <td>GrndTermX</td> <td>phase points to Y, no pick up</td> </tr> <tr> <td>4</td> <td>NegTermX</td> <td>based on phase torques</td> </tr> </table>	Enumeration			Binary	Value	Description	0	Pole1TermX	Pole1TermX	1	Pole2TermX	Pole2TermX	2	Pole3TermX	based on phase torques	3	GrndTermX	phase points to Y, no pick up	4	NegTermX	based on phase torques						
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Definitions of Historic Events

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EnabledDisabled	UINT16	<table border="1"> <thead> <tr><th colspan="3">Enumeration</th></tr> <tr><th>Binary</th><th>Value</th><th>Description</th></tr> </thead> <tbody> <tr><td>0</td><td>Disabled</td><td>Disabled</td></tr> <tr><td>1</td><td>Enabled</td><td>Enabled</td></tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Disabled	Disabled	1	Enabled	Enabled																																	
Enumeration																																															
Binary	Value	Description																																													
0	Disabled	Disabled																																													
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EncoderReading	INT16	<p>Encoder Reading</p> <table border="1"> <thead> <tr><th colspan="2">Numeric Type, Range: -500-500</th></tr> <tr><th>Action</th><th>Value</th></tr> </thead> <tbody> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </tbody> </table>	Numeric Type, Range: -500-500		Action	Value	Multiplier	1	Adder	0																																					
Numeric Type, Range: -500-500																																															
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EntryPointDevice	UINT16	<p>Indication that this control is the Entry Point Device</p> <table border="1"> <thead> <tr><th colspan="2">Numeric Type, Range: 0-65535</th></tr> <tr><th>Action</th><th>Value</th></tr> </thead> <tbody> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																																					
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EOSErrorCode	UINT16	<p>EOS Error Code for the CF operations</p> <table border="1"> <thead> <tr><th colspan="2">Numeric Type, Range: 0-256</th></tr> <tr><th>Action</th><th>Value</th></tr> </thead> <tbody> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </tbody> </table>	Numeric Type, Range: 0-256		Action	Value	Multiplier	1	Adder	0																																					
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ErrorCodeNETX	UINT16	<p>Error code for the Netx system</p> <table border="1"> <thead> <tr><th colspan="3">Enumeration</th></tr> <tr><th>Binary</th><th>Value</th><th>Description</th></tr> </thead> <tbody> </tbody> </table>	Enumeration			Binary	Value	Description																																							
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		<table border="1"> <tr><td>0</td><td>NETX_SUCCESS</td><td>Netx is successful</td></tr> <tr><td>1</td><td>NETX_NO_NETVW</td><td>Netx has no Net view</td></tr> <tr><td>2</td><td>NETX_NO_RTU</td><td>No RTU was found for NETX</td></tr> <tr><td>3</td><td>NETX_BAD_NETVW</td><td>Netx has a bad Net view</td></tr> <tr><td>4</td><td>NETX_OBJ_FAIL</td><td>Netx object has failed</td></tr> <tr><td>5</td><td>NETX_FAIL</td><td>Netx has failed</td></tr> <tr><td>6</td><td>NETX_OBJ_QUED</td><td>Netx object has been qued</td></tr> <tr><td>7</td><td>NETX_NOT_RSD</td><td>Netx has not RSD</td></tr> <tr><td>8</td><td>NETX_BAD_CRC</td><td>Netx has a bad CRC</td></tr> <tr><td>9</td><td>NETX_NOTACTV</td><td>Netx is not active</td></tr> <tr><td>10</td><td>NETX_NOT_FOUND</td><td>Netx is not found</td></tr> <tr><td>11</td><td>NETX_OUT_OF_MEM</td><td>Netx is out of memory</td></tr> <tr><td>256</td><td>NETXDUPLCHACKCAP</td><td>Netx duplicate hack capacity</td></tr> </table>	0	NETX_SUCCESS	Netx is successful	1	NETX_NO_NETVW	Netx has no Net view	2	NETX_NO_RTU	No RTU was found for NETX	3	NETX_BAD_NETVW	Netx has a bad Net view	4	NETX_OBJ_FAIL	Netx object has failed	5	NETX_FAIL	Netx has failed	6	NETX_OBJ_QUED	Netx object has been qued	7	NETX_NOT_RSD	Netx has not RSD	8	NETX_BAD_CRC	Netx has a bad CRC	9	NETX_NOTACTV	Netx is not active	10	NETX_NOT_FOUND	Netx is not found	11	NETX_OUT_OF_MEM	Netx is out of memory	256	NETXDUPLCHACKCAP	Netx duplicate hack capacity
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Binary	Value	Description																																							
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ExpressNetViewRow	UINT16	<p>Number of entries in row, one for device,one for wire</p> <table border="1"> <tr><th colspan="2">Numeric Type, Range: 0-65535</th></tr> <tr><th>Action</th><th>Value</th></tr> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																															
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ExtCommandArgument1	UINT16	<table border="1"> <tr><th colspan="2">Union</th></tr> <tr><th>Value</th><th>Data Type</th></tr> <tr><td>MaintMode</td><td>MaintModeState</td></tr> <tr><td>GTBCommand</td><td>GTBState</td></tr> <tr><td>HLT</td><td>HLTState</td></tr> </table>	Union		Value	Data Type	MaintMode	MaintModeState	GTBCommand	GTBState	HLT	HLTState																													
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ExtCommandArgument2	UINT16	<table border="1"> <tr><th colspan="2">Union</th></tr> <tr><th>Value</th><th>Data Type</th></tr> <tr><td>Close</td><td>ProfileNumber</td></tr> </table>	Union		Value	Data Type	Close	ProfileNumber																																	
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ExtCommandArgument3	UINT16	<table border="1"> <tr><th colspan="2">Union</th></tr> <tr><th>Value</th><th>Data Type</th></tr> <tr><td>HLT</td><td>HLTSrc</td></tr> </table>	Union		Value	Data Type	HLT	HLTSrc																																	
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ExtCommandCode	UINT16	<table border="1"> <tr><th colspan="3">Enumeration</th></tr> <tr><th>Binary</th><th>Value</th><th>Description</th></tr> <tr><td>170</td><td>MaintMode</td><td>MaintMode</td></tr> <tr><td>245</td><td>Trip</td><td>Trip</td></tr> <tr><td>37</td><td>Open</td><td>Open</td></tr> <tr><td>39</td><td>Close</td><td>Close</td></tr> <tr><td>32</td><td>GTBCommand</td><td>GTBCommand</td></tr> </table>	Enumeration			Binary	Value	Description	170	MaintMode	MaintMode	245	Trip	Trip	37	Open	Open	39	Close	Close	32	GTBCommand	GTBCommand																		
Enumeration																																									
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245	Trip	Trip																																							
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32	GTBCommand	GTBCommand																																							

Definitions of Historic Events

		42	HLT	HLT																					
ExternalOutput	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>122</td> <td>Open</td> <td>Open</td> </tr> <tr> <td>123</td> <td>Closed</td> <td>Closed</td> </tr> <tr> <td>124</td> <td>HLT</td> <td>HotLineTag</td> </tr> <tr> <td>125</td> <td>GTB</td> <td>GdTripBlock</td> </tr> <tr> <td>126</td> <td>MMode</td> <td>MaintMode</td> </tr> </tbody> </table>			Enumeration			Binary	Value	Description	122	Open	Open	123	Closed	Closed	124	HLT	HotLineTag	125	GTB	GdTripBlock	126	MMode	MaintMode
Enumeration																									
Binary	Value	Description																							
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126	MMode	MaintMode																							
ExtTripCommand	UINT16	<table border="1"> <thead> <tr> <th colspan="2">Union</th> </tr> <tr> <th>Value</th> <th>Data Type</th> </tr> </thead> <tbody> <tr> <td>Open</td> <td>PoleStatus</td> </tr> <tr> <td>Closed</td> <td>PoleStatus</td> </tr> <tr> <td>HLT</td> <td>HLTSource</td> </tr> <tr> <td>GTB</td> <td>GTBSource</td> </tr> <tr> <td>MMode</td> <td>MMode</td> </tr> </tbody> </table>			Union		Value	Data Type	Open	PoleStatus	Closed	PoleStatus	HLT	HLTSource	GTB	GTBSource	MMode	MMode							
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MMode	MMode																								
FeederNetCRC	UINT16	CRC of this Feeder Net <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>			Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0													
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FeederNetID	UINT16	Feeder Net ID <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>			Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0													
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FeederNetObjectFlags	UINT16	Incoming Feeder Net Flages from ITD <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>			Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0													
Numeric Type, Range: 0-65535																									
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FeederNetObjType	UINT16	Type of netlist distribution <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>			Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0													
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FixQuality	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> </thead> </table>			Enumeration																				
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		<table border="1"> <thead> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>NoSignal</td> <td>No Signal</td> </tr> <tr> <td>1</td> <td>GPS</td> <td>GPS</td> </tr> <tr> <td>2</td> <td>DGPS</td> <td>DGPS</td> </tr> <tr> <td>3</td> <td>PPS</td> <td>PPS</td> </tr> <tr> <td>4</td> <td>RealTmKinematic</td> <td>Real Time Kinematic</td> </tr> <tr> <td>5</td> <td>FloatRTK</td> <td>Float RTK</td> </tr> <tr> <td>6</td> <td>Estimated</td> <td>Estimated</td> </tr> <tr> <td>7</td> <td>MnlInputMode</td> <td>Manual Input Mode</td> </tr> <tr> <td>8</td> <td>SimulatMode</td> <td>Simulation Mode</td> </tr> </tbody> </table>	Binary	Value	Description	0	NoSignal	No Signal	1	GPS	GPS	2	DGPS	DGPS	3	PPS	PPS	4	RealTmKinematic	Real Time Kinematic	5	FloatRTK	Float RTK	6	Estimated	Estimated	7	MnlInputMode	Manual Input Mode	8	SimulatMode	Simulation Mode
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FreqTrip	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>NoTrip</td> <td>No Trip</td> </tr> <tr> <td>1</td> <td>FreqTrip</td> <td>Freq Trip</td> </tr> <tr> <td>2</td> <td>NA</td> <td>Not Applicable</td> </tr> <tr> <td>255</td> <td>NotProgrammed</td> <td>Not Programmed</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	NoTrip	No Trip	1	FreqTrip	Freq Trip	2	NA	Not Applicable	255	NotProgrammed	Not Programmed												
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FreqTripType	UINT16	<p>Over Under Freq. Trip</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 1-2</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 1-2		Action	Value	Multiplier	1	Adder	0																						
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good_sourceRelayArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>TermX</td> <td>TermX</td> </tr> <tr> <td>1</td> <td>TermY</td> <td>TermY</td> </tr> <tr> <td>2</td> <td>TermXY</td> <td>TermXY</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	TermX	TermX	1	TermY	TermY	2	TermXY	TermXY															
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GooseActionCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Shift</td> <td>Shift</td> </tr> <tr> <td>2</td> <td>Unshift</td> <td>Unshift</td> </tr> <tr> <td>3</td> <td>DirTrans Trip</td> <td>DTT</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	Shift	Shift	2	Unshift	Unshift	3	DirTrans Trip	DTT															
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Binary	Value	Description																														
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GooseCommLossReason	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Unknown</td> <td>Unknown</td> </tr> <tr> <td>1</td> <td>Quality</td> <td>Quality</td> </tr> <tr> <td>2</td> <td>NoSubscriptionRcvd</td> <td>No Subscription Received</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Unknown	Unknown	1	Quality	Quality	2	NoSubscriptionRcvd	No Subscription Received															
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Binary	Value	Description																														
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GooseConfigFile	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Unknown</td> <td>Unknown</td> </tr> <tr> <td>1</td> <td>GOOSEICD</td> <td>GOOSE ICD</td> </tr> <tr> <td>2</td> <td>GOOSEActionLogic</td> <td>GOOSE Action Logic</td> </tr> <tr> <td>3</td> <td>GOOSECombined</td> <td>GOOSE Combined</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Unknown	Unknown	1	GOOSEICD	GOOSE ICD	2	GOOSEActionLogic	GOOSE Action Logic	3	GOOSECombined	GOOSE Combined												
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Binary	Value	Description																														
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GooseConfigInvalid	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> </thead> </table>	Enumeration																													
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Definitions of Historic Events

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GooseDeactivationSource	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Unknown</td> <td>Unknown</td> </tr> <tr> <td>1</td> <td>License</td> <td>License</td> </tr> <tr> <td>2</td> <td>Configuration</td> <td>Configuration</td> </tr> <tr> <td>3</td> <td>Enable</td> <td>Enable</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Unknown	Unknown	1	License	License	2	Configuration	Configuration	3	Enable	Enable															
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Definitions of Historic Events

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InternalCode	UINT16	<p>Internal code for troubleshooting.</p> <table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CCircRsrcOK</td> <td>Contract circuit resources are adequate</td> </tr> <tr> <td>2</td> <td>CLineSegReqHi</td> <td>Contract line segment request above limit</td> </tr> <tr> <td>3</td> <td>CLoadCapReqHi</td> <td>Contract load capacity request above limit</td> </tr> </tbody> </table>			Enumeration			Binary	Value	Description	1	CCircRsrcOK	Contract circuit resources are adequate	2	CLineSegReqHi	Contract line segment request above limit	3	CLoadCapReqHi	Contract load capacity request above limit															
Enumeration																																		
Binary	Value	Description																																
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Definitions of Historic Events

		4	SrcSubSwVloss	SourceSub Switch has detected voltage loss																								
InternalCode2	UINT16	Internal event-specific code																										
		<table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>			Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																
Numeric Type, Range: 0-65535																												
Action	Value																											
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IntTempSensor	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sensor1</td> <td>Sensor 1</td> </tr> <tr> <td>2</td> <td>Sensor2</td> <td>Sensor 2</td> </tr> </tbody> </table>			Enumeration			Binary	Value	Description	1	Sensor1	Sensor 1	2	Sensor2	Sensor 2												
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IPMState	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Charge</td> <td>CHARGE</td> </tr> <tr> <td>1</td> <td>Discharge</td> <td>DISCHARGE</td> </tr> <tr> <td>2</td> <td>Operation</td> <td>OPERATON</td> </tr> <tr> <td>3</td> <td>FullCharge</td> <td>FULLCHARGE</td> </tr> <tr> <td>4</td> <td>NoPower</td> <td>NO POWER</td> </tr> <tr> <td>255</td> <td>Undefined</td> <td>UNDEF</td> </tr> </tbody> </table>			Enumeration			Binary	Value	Description	0	Charge	CHARGE	1	Discharge	DISCHARGE	2	Operation	OPERATON	3	FullCharge	FULLCHARGE	4	NoPower	NO POWER	255	Undefined	UNDEF
Enumeration																												
Binary	Value	Description																										
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IRPosition	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Unknown</td> <td>Unknown</td> </tr> <tr> <td>1</td> <td>Closed</td> <td>Closed</td> </tr> <tr> <td>2</td> <td>Open</td> <td>Open</td> </tr> <tr> <td>3</td> <td>Pulsed</td> <td>Pulsed</td> </tr> <tr> <td>4</td> <td>Misaligned</td> <td>Misaligned</td> </tr> <tr> <td>5</td> <td>MechError</td> <td>Mechanism Error</td> </tr> </tbody> </table>			Enumeration			Binary	Value	Description	0	Unknown	Unknown	1	Closed	Closed	2	Open	Open	3	Pulsed	Pulsed	4	Misaligned	Misaligned	5	MechError	Mechanism Error
Enumeration																												
Binary	Value	Description																										
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ITIIReadyCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>ITIINotRdy</td> <td>not ready</td> </tr> <tr> <td>1</td> <td>ITIIReady</td> <td>ready</td> </tr> </tbody> </table>			Enumeration			Binary	Value	Description	0	ITIINotRdy	not ready	1	ITIIReady	ready												
Enumeration																												
Binary	Value	Description																										
0	ITIINotRdy	not ready																										
1	ITIIReady	ready																										
ITIssueCode	UINT16	Return to initial trip settings issue code																										
		<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>NoIssue</td> <td>No Issue</td> </tr> <tr> <td>1</td> <td>OCTiming</td> <td>There are timed OC elements</td> </tr> <tr> <td>2</td> <td>MiscTiming</td> <td>There are timed voltage/frequency elements</td> </tr> <tr> <td>3</td> <td>OCTrip</td> <td>OC element trip</td> </tr> <tr> <td>4</td> <td>MiscTrip</td> <td>Voltage or frequency element trip</td> </tr> </tbody> </table>			Enumeration			Binary	Value	Description	0	NoIssue	No Issue	1	OCTiming	There are timed OC elements	2	MiscTiming	There are timed voltage/frequency elements	3	OCTrip	OC element trip	4	MiscTrip	Voltage or frequency element trip			
Enumeration																												
Binary	Value	Description																										
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4	MiscTrip	Voltage or frequency element trip																										
LeakageCurrent	INT16	Leakage Current in amps																										
		<table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-1000</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> </tbody> </table>			Numeric Type, Range: 0-1000		Action	Value	Multiplier	1																		
Numeric Type, Range: 0-1000																												
Action	Value																											
Multiplier	1																											

		<table border="1"> <tr> <td>Adder</td> <td>0</td> </tr> <tr> <td colspan="2">Presentation</td> </tr> <tr> <td>Binary</td> <td>#### A</td> </tr> </table>	Adder	0	Presentation		Binary	#### A															
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Presentation																							
Binary	#### A																						
LeakageTrigger	UINT16	<table border="1"> <tr> <td colspan="3">Enumeration</td> </tr> <tr> <td>Binary</td> <td>Value</td> <td>Description</td> </tr> <tr> <td>1</td> <td>x1</td> <td>1x</td> </tr> <tr> <td>4</td> <td>x4</td> <td>4x</td> </tr> </table>	Enumeration			Binary	Value	Description	1	x1	1x	4	x4	4x									
Enumeration																							
Binary	Value	Description																					
1	x1	1x																					
4	x4	4x																					
LineSegLimit	UINT16	<table border="1"> <tr> <td colspan="3">Enumeration</td> </tr> <tr> <td>Binary</td> <td>Value</td> <td>Description</td> </tr> <tr> <td>0</td> <td>LineSegLimit</td> <td>Line Seg Limit</td> </tr> </table>	Enumeration			Binary	Value	Description	0	LineSegLimit	Line Seg Limit												
Enumeration																							
Binary	Value	Description																					
0	LineSegLimit	Line Seg Limit																					
LoadingCurrent	UINT16	<p>1 amperes per count</p> <table border="1"> <tr> <td colspan="2">Numeric Type, Range: 0-655350</td> </tr> <tr> <td>Action</td> <td>Value</td> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-655350		Action	Value	Multiplier	1	Adder	0													
Numeric Type, Range: 0-655350																							
Action	Value																						
Multiplier	1																						
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LOGDiagType	UINT16	<table border="1"> <tr> <td colspan="3">Enumeration</td> </tr> <tr> <td>Binary</td> <td>Value</td> <td>Description</td> </tr> <tr> <td>1</td> <td>Alarm</td> <td>Alarm</td> </tr> <tr> <td>2</td> <td>Warning</td> <td>Warning</td> </tr> <tr> <td>4</td> <td>Error</td> <td>Error</td> </tr> </table>	Enumeration			Binary	Value	Description	1	Alarm	Alarm	2	Warning	Warning	4	Error	Error						
Enumeration																							
Binary	Value	Description																					
1	Alarm	Alarm																					
2	Warning	Warning																					
4	Error	Error																					
LookupTblGenCode	UINT16	<table border="1"> <tr> <td colspan="3">Enumeration</td> </tr> <tr> <td>Binary</td> <td>Value</td> <td>Description</td> </tr> <tr> <td>0</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>1</td> <td>CoeffALimit</td> <td>Coefficient A Limit</td> </tr> <tr> <td>2</td> <td>CoeffBLimit</td> <td>Coefficient B Limit</td> </tr> <tr> <td>3</td> <td>CoeffCLimit</td> <td>Coefficient C Limit</td> </tr> <tr> <td>4</td> <td>CoeffDLimit</td> <td>Coefficient D Limit</td> </tr> </table>	Enumeration			Binary	Value	Description	0	OK	OK	1	CoeffALimit	Coefficient A Limit	2	CoeffBLimit	Coefficient B Limit	3	CoeffCLimit	Coefficient C Limit	4	CoeffDLimit	Coefficient D Limit
Enumeration																							
Binary	Value	Description																					
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LoopsReadyCommandArg	UINT16	<table border="1"> <tr> <td colspan="3">Enumeration</td> </tr> <tr> <td>Binary</td> <td>Value</td> <td>Description</td> </tr> <tr> <td>0</td> <td>LoopsNotRdy</td> <td>not ready</td> </tr> <tr> <td>1</td> <td>LoopsReady</td> <td>ready</td> </tr> </table>	Enumeration			Binary	Value	Description	0	LoopsNotRdy	not ready	1	LoopsReady	ready									
Enumeration																							
Binary	Value	Description																					
0	LoopsNotRdy	not ready																					
1	LoopsReady	ready																					
MaintModeState	UINT16	<table border="1"> <tr> <td colspan="3">Enumeration</td> </tr> <tr> <td>Binary</td> <td>Value</td> <td>Description</td> </tr> <tr> <td>105</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>104</td> <td>OFF</td> <td>OFF</td> </tr> </table>	Enumeration			Binary	Value	Description	105	ON	ON	104	OFF	OFF									
Enumeration																							
Binary	Value	Description																					
105	ON	ON																					
104	OFF	OFF																					
ManOpClrReject	UINT16	<table border="1"> <tr> <td colspan="3">Enumeration</td> </tr> <tr> <td>Binary</td> <td>Value</td> <td>Description</td> </tr> <tr> <td>1</td> <td>DisconnOpen</td> <td>Disconn Open</td> </tr> <tr> <td>2</td> <td>OpenLocked</td> <td>Open Locked</td> </tr> </table>	Enumeration			Binary	Value	Description	1	DisconnOpen	Disconn Open	2	OpenLocked	Open Locked									
Enumeration																							
Binary	Value	Description																					
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Binary	Value	Description																					
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Definitions of Historic Events

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1	ManOpActive	Man Op Active																											
MapNumber	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>BinaryInput</td> <td>binary input</td> </tr> <tr> <td>1</td> <td>AnalogInput</td> <td>analog input</td> </tr> <tr> <td>2</td> <td>Counter</td> <td>counter</td> </tr> <tr> <td>3</td> <td>Control</td> <td>control</td> </tr> <tr> <td>4</td> <td>AnalogOutput</td> <td>analog output</td> </tr> <tr> <td>5</td> <td>DblBinaryInput</td> <td>double binary output</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	BinaryInput	binary input	1	AnalogInput	analog input	2	Counter	counter	3	Control	control	4	AnalogOutput	analog output	5	DblBinaryInput	double binary output			
Enumeration																													
Binary	Value	Description																											
0	BinaryInput	binary input																											
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2	Counter	counter																											
3	Control	control																											
4	AnalogOutput	analog output																											
5	DblBinaryInput	double binary output																											
MaskofDisabledElements	UINT16	<p>Mask of Disabled Elements</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																			
Numeric Type, Range: 0-65535																													
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Master	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Master1</td> <td>Master 1</td> </tr> <tr> <td>2</td> <td>Master2</td> <td>Master 2</td> </tr> <tr> <td>3</td> <td>Master3</td> <td>Master 3</td> </tr> <tr> <td>4</td> <td>Master4</td> <td>Master 4</td> </tr> <tr> <td>5</td> <td>Master5</td> <td>Master 5</td> </tr> <tr> <td>6</td> <td>Master6</td> <td>Master 6</td> </tr> <tr> <td>255</td> <td>NoMaster</td> <td>No Master</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	Master1	Master 1	2	Master2	Master 2	3	Master3	Master 3	4	Master4	Master 4	5	Master5	Master 5	6	Master6	Master 6	255	NoMaster	No Master
Enumeration																													
Binary	Value	Description																											
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3	Master3	Master 3																											
4	Master4	Master 4																											
5	Master5	Master 5																											
6	Master6	Master 6																											
255	NoMaster	No Master																											
MasterRecAddError	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Good</td> <td>good</td> </tr> <tr> <td>1</td> <td>Error</td> <td>error</td> </tr> <tr> <td>2</td> <td>AlrdyInList</td> <td>already in list</td> </tr> <tr> <td>3</td> <td>ListFull</td> <td>list full</td> </tr> <tr> <td>4</td> <td>NotOnList</td> <td>not on list</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Good	good	1	Error	error	2	AlrdyInList	already in list	3	ListFull	list full	4	NotOnList	not on list						
Enumeration																													
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MaxPeersWhen	UINT16	<p>Max Peers Occur During This</p> <table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>WhenTestInit</td> <td>WhenTestInit</td> </tr> <tr> <td>1</td> <td>WhenTestStats</td> <td>WhenTestStats</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	WhenTestInit	WhenTestInit	1	WhenTestStats	WhenTestStats															
Enumeration																													
Binary	Value	Description																											
0	WhenTestInit	WhenTestInit																											
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MCUProfile	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>GenProf1</td> <td>General Profile 1</td> </tr> <tr> <td>1</td> <td>GenProf2</td> <td>General Profile 2</td> </tr> <tr> <td>2</td> <td>GenProf3</td> <td>General Profile 3</td> </tr> <tr> <td>3</td> <td>GenProf4</td> <td>General Profile 4</td> </tr> <tr> <td>4</td> <td>ClosProf1</td> <td>Closing Profile 1</td> </tr> <tr> <td>5</td> <td>ClosProf2</td> <td>Closing Profile 2</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	GenProf1	General Profile 1	1	GenProf2	General Profile 2	2	GenProf3	General Profile 3	3	GenProf4	General Profile 4	4	ClosProf1	Closing Profile 1	5	ClosProf2	Closing Profile 2			
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MechTestCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PulseClose</td> <td>PulseClose</td> </tr> <tr> <td>2</td> <td>Close</td> <td>Close</td> </tr> <tr> <td>3</td> <td>Open</td> <td>Open</td> </tr> <tr> <td>7</td> <td>PulseRepulse</td> <td>PulseRepulse</td> </tr> <tr> <td>8</td> <td>ThreePoleSimulCls</td> <td>ThreePoleSimulClose</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	PulseClose	PulseClose	2	Close	Close	3	Open	Open	7	PulseRepulse	PulseRepulse	8	ThreePoleSimulCls	ThreePoleSimulClose																																							
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MemberWithDoneAndEOL	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Member1</td> <td>Member 1</td> </tr> <tr> <td>2</td> <td>Member2</td> <td>Member 2</td> </tr> <tr> <td>3</td> <td>Member3</td> <td>Member 3</td> </tr> <tr> <td>4</td> <td>Member4</td> <td>Member 4</td> </tr> <tr> <td>5</td> <td>Member5</td> <td>Member 5</td> </tr> <tr> <td>6</td> <td>Member6</td> <td>Member 6</td> </tr> <tr> <td>7</td> <td>Member7</td> <td>Member 7</td> </tr> <tr> <td>8</td> <td>Member8</td> <td>Member 8</td> </tr> <tr> <td>254</td> <td>EndofList</td> <td>EndofList</td> </tr> <tr> <td>256</td> <td>Done</td> <td>Done</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	Member1	Member 1	2	Member2	Member 2	3	Member3	Member 3	4	Member4	Member 4	5	Member5	Member 5	6	Member6	Member 6	7	Member7	Member 7	8	Member8	Member 8	254	EndofList	EndofList	256	Done	Done																								
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miscRelayIndex	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Pole1Over</td> <td>Pole 1 overvoltage</td> </tr> <tr> <td>1</td> <td>Pole2Over</td> <td>Pole 2 overvoltage</td> </tr> <tr> <td>2</td> <td>Pole3Over</td> <td>Pole 3 overvoltage</td> </tr> <tr> <td>3</td> <td>ZSOver</td> <td>Zero Seq</td> </tr> <tr> <td>4</td> <td>NSOver</td> <td>Neg Seq</td> </tr> <tr> <td>9</td> <td>ThreePhOver</td> <td>Three-Phase overvoltage</td> </tr> <tr> <td>5</td> <td>Pole1Uv</td> <td>Pole 1 undervoltage</td> </tr> <tr> <td>6</td> <td>Pole2Uv</td> <td>Pole 2 undervoltage</td> </tr> <tr> <td>7</td> <td>Pole3Uv</td> <td>Pole 3 undervoltage</td> </tr> <tr> <td>8</td> <td>NoSource</td> <td>No Source</td> </tr> <tr> <td>10</td> <td>ThreePhUv</td> <td>Three-Phase undervoltage</td> </tr> <tr> <td>11</td> <td>OverFreq</td> <td>Over Frequency</td> </tr> <tr> <td>12</td> <td>UnderFreq</td> <td>Under Frequency</td> </tr> <tr> <td>13</td> <td>Sect</td> <td>Sectionalizer</td> </tr> <tr> <td>14</td> <td>WattmetricX</td> <td>Wattmetric_X</td> </tr> <tr> <td>15</td> <td>WattmetricY</td> <td>Wattmetric_Y</td> </tr> <tr> <td>16</td> <td>DTAPX</td> <td>DTAP_X</td> </tr> <tr> <td>17</td> <td>DTAPY</td> <td>DTAP_Y</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Pole1Over	Pole 1 overvoltage	1	Pole2Over	Pole 2 overvoltage	2	Pole3Over	Pole 3 overvoltage	3	ZSOver	Zero Seq	4	NSOver	Neg Seq	9	ThreePhOver	Three-Phase overvoltage	5	Pole1Uv	Pole 1 undervoltage	6	Pole2Uv	Pole 2 undervoltage	7	Pole3Uv	Pole 3 undervoltage	8	NoSource	No Source	10	ThreePhUv	Three-Phase undervoltage	11	OverFreq	Over Frequency	12	UnderFreq	Under Frequency	13	Sect	Sectionalizer	14	WattmetricX	Wattmetric_X	15	WattmetricY	Wattmetric_Y	16	DTAPX	DTAP_X	17	DTAPY	DTAP_Y
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Definitions of Historic Events

		<table border="1"> <tr> <td>8</td> <td>Error</td> <td>Error</td> </tr> <tr> <td>255</td> <td>Unknown</td> <td>NoOutput</td> </tr> </table>	8	Error	Error	255	Unknown	NoOutput									
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MoreThanOneDiffFound	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>OneDiffFound</td> <td>Only OneDiff Found</td> </tr> <tr> <td>1</td> <td>TwoOrMoreDiffs</td> <td>Two Or More Diffs</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	OneDiffFound	Only OneDiff Found	1	TwoOrMoreDiffs	Two Or More Diffs			
Enumeration																	
Binary	Value	Description															
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netfragID	UINT16	<p>Net Fragment ID</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0							
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Action	Value																
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NETLISTRNR	UINT16	<p>Number of NETLIST runners in RunnerSource</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0							
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netobuffFree	UINT16	<p>Cumulative free buffer space</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0							
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NETSTE	UINT16	<p>Net state E</p> <table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BACKIDLE</td> <td>Go back to idle</td> </tr> <tr> <td>8</td> <td>RESENDNR</td> <td>Go re-send the runner objects since some failed</td> </tr> <tr> <td>4</td> <td>WAITRT</td> <td>Go wait for returns</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	BACKIDLE	Go back to idle	8	RESENDNR	Go re-send the runner objects since some failed	4	WAITRT	Go wait for returns
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Enumeration																	
Binary	Value	Description															
0	NETVIEWNOTVALID	Net view is not valid															
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NETViewLength	UINT16	<p>The Normal State NetView Length of each row table</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0							
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Multiplier	1																
Adder	0																
NetViewRowNum	UINT16	<p>Runner source row number in nnet</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1									
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NETVSRC	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NETVSRC_NORMAL</td> <td>NETV source is normal</td> </tr> <tr> <td>2</td> <td>NETVSRC_ALTERNATE</td> <td>NETV source is alternate</td> </tr> <tr> <td>3</td> <td>NETVFDR_NOTNORMAL</td> <td>NETV source is not normal</td> </tr> <tr> <td>255</td> <td>NETVSRC_UNDEFINED</td> <td>NETV source is undefined</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	NETVSRC_NORMAL	NETV source is normal	2	NETVSRC_ALTERNATE	NETV source is alternate	3	NETVFDR_NOTNORMAL	NETV source is not normal	255	NETVSRC_UNDEFINED	NETV source is undefined									
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NodeCount	UINT16	<p>Number of appearances in this runner</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																			
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NodeIndex	UINT16	<p>Our position in the Node Index table</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																			
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NodeLists	UINT16	<p>Runner node lists</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																			
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NoMaster	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>MasterExists</td> <td>MasterExists</td> </tr> <tr> <td>1</td> <td>NoMaster</td> <td>No Master</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	MasterExists	MasterExists	1	NoMaster	No Master															
Enumeration																													
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NoPeersWhen	UINT16	<p>Max Peers Occur During This</p> <table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>SchedTest</td> <td>SchedTest</td> </tr> <tr> <td>1</td> <td>QuickTest</td> <td>QuickTest</td> </tr> <tr> <td>2</td> <td>KeepAlive</td> <td>KeepAlive</td> </tr> <tr> <td>3</td> <td>KwikKeepAlive</td> <td>KwikKeepAlive</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	SchedTest	SchedTest	1	QuickTest	QuickTest	2	KeepAlive	KeepAlive	3	KwikKeepAlive	KwikKeepAlive									
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ns_traceInfo	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>32768</td> <td>NotExceed</td> <td>not executed</td> </tr> <tr> <td>0</td> <td>PhaseXnoPU</td> <td>phase points to X, no pick up</td> </tr> <tr> <td>4</td> <td>PhaseXTorque</td> <td>based on phase torques</td> </tr> <tr> <td>2</td> <td>PhaseYnoPU</td> <td>phase points to Y, no pick up</td> </tr> <tr> <td>6</td> <td>PhaseYTorque</td> <td>based on phase torques</td> </tr> <tr> <td>1</td> <td>NegXnoPU</td> <td>neg. points to X, no pick up</td> </tr> <tr> <td>5</td> <td>NegXSeq</td> <td>based on neg. seq.</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	32768	NotExceed	not executed	0	PhaseXnoPU	phase points to X, no pick up	4	PhaseXTorque	based on phase torques	2	PhaseYnoPU	phase points to Y, no pick up	6	PhaseYTorque	based on phase torques	1	NegXnoPU	neg. points to X, no pick up	5	NegXSeq	based on neg. seq.
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Definitions of Historic Events

		<table border="1"> <tr> <td>3</td> <td>NegYnoPU</td> <td>neg. points to Y, no pick up</td> </tr> <tr> <td>7</td> <td>NegYSeq</td> <td>based on neg. seq.</td> </tr> </table>	3	NegYnoPU	neg. points to Y, no pick up	7	NegYSeq	based on neg. seq.		
3	NegYnoPU	neg. points to Y, no pick up								
7	NegYSeq	based on neg. seq.								
nsngl	UINT16	<p>number of device connections present, counter, list len</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
Numeric Type, Range: 0-65535										
Action	Value									
Multiplier	1									
Adder	0									
nt	UINT16	<p>Number of team records</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
Numeric Type, Range: 0-65535										
Action	Value									
Multiplier	1									
Adder	0									
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Numeric Type, Range: 0-3600										
Action	Value									
Multiplier	1									
Adder	0									
NumDataElements	UINT16	<p>Actual number of data elements in DLV</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
Numeric Type, Range: 0-65535										
Action	Value									
Multiplier	1									
Adder	0									
NumDevicesinFN	UINT16	<p>Number of devices in the Feeder Net</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
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Multiplier	1									
Adder	0									
NumNodeID	UINT16	<p>Number of Node IDs in the list</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
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NumNodeIndex	UINT16	<p>Number of indexes in the Node table</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
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Action	Value									
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Adder	0									
NumOfDevices	UINT16	<p>Netview number of devices/switches in DivisionNet</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value				
Numeric Type, Range: 0-65535										
Action	Value									

		<table border="1"> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </table>	Multiplier	1	Adder	0				
Multiplier	1									
Adder	0									
NumOfPowSrc	UINT16	<p>Number of power sources in DivisionNet</p> <table border="1"> <tr><td colspan="2">Numeric Type, Range: 0-65535</td></tr> <tr><td>Action</td><td>Value</td></tr> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
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Action	Value									
Multiplier	1									
Adder	0									
NumOfRows	UINT16	<p>Net Present NetView number of rows in table for DivisionNet</p> <table border="1"> <tr><td colspan="2">Numeric Type, Range: 0-65535</td></tr> <tr><td>Action</td><td>Value</td></tr> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
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NumOfTeams	UINT16	<p>Number of teams</p> <table border="1"> <tr><td colspan="2">Numeric Type, Range: 0-65535</td></tr> <tr><td>Action</td><td>Value</td></tr> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
Numeric Type, Range: 0-65535										
Action	Value									
Multiplier	1									
Adder	0									
NumOfWirePairs	UINT16	<p>Number of entries in the D-W (Device-Wire) tables</p> <table border="1"> <tr><td colspan="2">Numeric Type, Range: 0-65535</td></tr> <tr><td>Action</td><td>Value</td></tr> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
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Action	Value									
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NumPaths	UINT16	<p>Number of paths in this particular Feeder Net</p> <table border="1"> <tr><td colspan="2">Numeric Type, Range: 0-65535</td></tr> <tr><td>Action</td><td>Value</td></tr> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0
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Action	Value									
Multiplier	1									
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Definitions of Historic Events

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Definitions of Historic Events

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PMUDataConcentratorCmd	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Unknown</td> <td>Unknown</td> </tr> <tr> <td>1</td> <td>TurnoffXmitFrames</td> <td>XmitFrames Off Cmd</td> </tr> <tr> <td>2</td> <td>TurnonXmitFrames</td> <td>XmitFrames On Cmd</td> </tr> <tr> <td>3</td> <td>SendHDRFrame</td> <td>Send HDR frame</td> </tr> <tr> <td>4</td> <td>SendCFG1frame</td> <td>Send CFG-1 frame</td> </tr> <tr> <td>5</td> <td>SendCFG2frame</td> <td>Send CFG-2 frame</td> </tr> <tr> <td>6</td> <td>SendCFG3frame</td> <td>Send CFG-3 frame</td> </tr> <tr> <td>7</td> <td>Reserved_7</td> <td>Reserved7</td> </tr> <tr> <td>8</td> <td>Extendedframe</td> <td>Extended frame</td> </tr> <tr> <td>9</td> <td>Reserved_9</td> <td>Reserved9</td> </tr> <tr> <td>10</td> <td>Reserved_10</td> <td>Reserved10</td> </tr> <tr> <td>11</td> <td>Reserved_11</td> <td>Reserved11</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Unknown	Unknown	1	TurnoffXmitFrames	XmitFrames Off Cmd	2	TurnonXmitFrames	XmitFrames On Cmd	3	SendHDRFrame	Send HDR frame	4	SendCFG1frame	Send CFG-1 frame	5	SendCFG2frame	Send CFG-2 frame	6	SendCFG3frame	Send CFG-3 frame	7	Reserved_7	Reserved7	8	Extendedframe	Extended frame	9	Reserved_9	Reserved9	10	Reserved_10	Reserved10	11	Reserved_11	Reserved11
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PMUErrorCode	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>ValidCommand</td> <td>Valid Command</td> </tr> <tr> <td>1</td> <td>InvalidCommand</td> <td>Invalid Command</td> </tr> <tr> <td>2</td> <td>InvalidPMUIDCODE</td> <td>Invalid PMU IDCODE</td> </tr> <tr> <td>3</td> <td>UnknownMsgType</td> <td>Unknown Msg Type</td> </tr> <tr> <td>4</td> <td>ChecksumError</td> <td>Checksum Error</td> </tr> <tr> <td>5</td> <td>DataXmitDisabled</td> <td>Data Xmit Disabled</td> </tr> <tr> <td>6</td> <td>UnsupportedMode</td> <td>Unsupported Mode</td> </tr> <tr> <td>7</td> <td>PMUNotReady</td> <td>PMU Not Ready</td> </tr> <tr> <td>8</td> <td>InvalidPDCIPAddr</td> <td>Invalid PDC IP Addr</td> </tr> <tr> <td>9</td> <td>TransportMismatch</td> <td>Xport Mismatches PMU cfg</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	ValidCommand	Valid Command	1	InvalidCommand	Invalid Command	2	InvalidPMUIDCODE	Invalid PMU IDCODE	3	UnknownMsgType	Unknown Msg Type	4	ChecksumError	Checksum Error	5	DataXmitDisabled	Data Xmit Disabled	6	UnsupportedMode	Unsupported Mode	7	PMUNotReady	PMU Not Ready	8	InvalidPDCIPAddr	Invalid PDC IP Addr	9	TransportMismatch	Xport Mismatches PMU cfg						
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PNGPredictedFeederCurrent	INT16	<p>Predicted feeder current in Amps</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																						
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PortCode	UINT16	<p>Communication port code.</p> <table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>UDP</td> <td>UDP</td> </tr> <tr> <td>1</td> <td>PortA</td> <td>portA</td> </tr> <tr> <td>2</td> <td>PortB</td> <td>portB</td> </tr> <tr> <td>3</td> <td>PortC</td> <td>portC</td> </tr> <tr> <td>4</td> <td>PortD</td> <td>portD</td> </tr> <tr> <td>6</td> <td>TCPV6</td> <td>TCP Virtual Port 6</td> </tr> <tr> <td>7</td> <td>TCPV7</td> <td>TCP Virtual Port 7</td> </tr> <tr> <td>8</td> <td>TCPV8</td> <td>TCP Virtual Port 8</td> </tr> <tr> <td>9</td> <td>TCPV9</td> <td>TCP Virtual Port 9</td> </tr> <tr> <td>10</td> <td>TCPV10</td> <td>TCP Virtual Port 10</td> </tr> <tr> <td>11</td> <td>TCPV11</td> <td>TCP Virtual Port 11</td> </tr> <tr> <td>12</td> <td>TCPV12</td> <td>TCP Virtual Port 12</td> </tr> <tr> <td>13</td> <td>TCPV13</td> <td>TCP Virtual Port 13</td> </tr> <tr> <td>14</td> <td>TCPV14</td> <td>TCP Virtual Port 14</td> </tr> <tr> <td>15</td> <td>TCPV15</td> <td>TCP Virtual Port 15</td> </tr> <tr> <td>16</td> <td>TCPV16</td> <td>TCP Virtual Port 16</td> </tr> <tr> <td>17</td> <td>TCPV17</td> <td>TCP Virtual Port 17</td> </tr> <tr> <td>18</td> <td>TCPV18</td> <td>TCP Virtual Port 18</td> </tr> <tr> <td>19</td> <td>TCPV19</td> <td>TCP Virtual Port 19</td> </tr> <tr> <td>20</td> <td>TCPV20</td> <td>TCP Virtual Port 20</td> </tr> <tr> <td>21</td> <td>TCPV21</td> <td>TCP Virtual Port 21</td> </tr> <tr> <td>22</td> <td>TCPV22</td> <td>TCP Virtual Port 22</td> </tr> <tr> <td>23</td> <td>TCPV23</td> <td>TCP Virtual Port 23</td> </tr> <tr> <td>24</td> <td>TCPV24</td> <td>TCP Virtual Port 24</td> </tr> <tr> <td>25</td> <td>TCPV25</td> <td>TCP Virtual Port 25</td> </tr> <tr> <td>26</td> <td>TCPV26</td> <td>TCP Virtual Port 26</td> </tr> <tr> <td>27</td> <td>TCPV27</td> <td>TCP Virtual Port 27</td> </tr> <tr> <td>28</td> <td>TCPV28</td> <td>TCP Virtual Port 28</td> </tr> <tr> <td>29</td> <td>TCPV29</td> <td>TCP Virtual Port 29</td> </tr> <tr> <td>30</td> <td>TCPV30</td> <td>TCP Virtual Port 30</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	UDP	UDP	1	PortA	portA	2	PortB	portB	3	PortC	portC	4	PortD	portD	6	TCPV6	TCP Virtual Port 6	7	TCPV7	TCP Virtual Port 7	8	TCPV8	TCP Virtual Port 8	9	TCPV9	TCP Virtual Port 9	10	TCPV10	TCP Virtual Port 10	11	TCPV11	TCP Virtual Port 11	12	TCPV12	TCP Virtual Port 12	13	TCPV13	TCP Virtual Port 13	14	TCPV14	TCP Virtual Port 14	15	TCPV15	TCP Virtual Port 15	16	TCPV16	TCP Virtual Port 16	17	TCPV17	TCP Virtual Port 17	18	TCPV18	TCP Virtual Port 18	19	TCPV19	TCP Virtual Port 19	20	TCPV20	TCP Virtual Port 20	21	TCPV21	TCP Virtual Port 21	22	TCPV22	TCP Virtual Port 22	23	TCPV23	TCP Virtual Port 23	24	TCPV24	TCP Virtual Port 24	25	TCPV25	TCP Virtual Port 25	26	TCPV26	TCP Virtual Port 26	27	TCPV27	TCP Virtual Port 27	28	TCPV28	TCP Virtual Port 28	29	TCPV29	TCP Virtual Port 29	30	TCPV30	TCP Virtual Port 30
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		<table border="1"> <tr><td>31</td><td>TCPV31</td><td>TCP Virtual Port 31</td></tr> <tr><td>32</td><td>TCPV32</td><td>TCP Virtual Port 32</td></tr> <tr><td>33</td><td>TCPV33</td><td>TCP Virtual Port 33</td></tr> <tr><td>34</td><td>TCPV34</td><td>TCP Virtual Port 34</td></tr> <tr><td>35</td><td>TCPV35</td><td>TCP Virtual Port 35</td></tr> <tr><td>36</td><td>TCPV36</td><td>TCP Virtual Port 36</td></tr> <tr><td>37</td><td>TCPV37</td><td>TCP Virtual Port 37</td></tr> <tr><td>38</td><td>TCPV38</td><td>TCP Virtual Port 38</td></tr> <tr><td>255</td><td>Undefined</td><td>Undefined</td></tr> <tr><td>20000</td><td>P20000</td><td>20000</td></tr> <tr><td>20001</td><td>P20001</td><td>20001</td></tr> </table>	31	TCPV31	TCP Virtual Port 31	32	TCPV32	TCP Virtual Port 32	33	TCPV33	TCP Virtual Port 33	34	TCPV34	TCP Virtual Port 34	35	TCPV35	TCP Virtual Port 35	36	TCPV36	TCP Virtual Port 36	37	TCPV37	TCP Virtual Port 37	38	TCPV38	TCP Virtual Port 38	255	Undefined	Undefined	20000	P20000	20000	20001	P20001	20001
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38	TCPV38	TCP Virtual Port 38																																	
255	Undefined	Undefined																																	
20000	P20000	20000																																	
20001	P20001	20001																																	
POWFaultCurrent	INT16	<p>Leackage Current in amps</p> <table border="1"> <tr><td colspan="2">Numeric Type, Range: 0-65535</td></tr> <tr><td>Action</td><td>Value</td></tr> <tr><td>Multiplier</td><td>1</td></tr> <tr><td>Adder</td><td>0</td></tr> <tr><td colspan="2">Presentation</td></tr> <tr><td>Binary</td><td>##### A</td></tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0	Presentation		Binary	##### A																					
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ProfileNumber	UINT16	<p>Present range 0-6 due to old profile identification numbers 2 and 3 being reserved</p> <table border="1"> <tr><td colspan="3">Enumeration</td></tr> <tr><td>Binary</td><td>Value</td><td>Description</td></tr> <tr><td>0</td><td>GP1</td><td>General Profile 1</td></tr> <tr><td>1</td><td>GP2</td><td>General Profile 2</td></tr> <tr><td>2</td><td>GP3</td><td>General Profile 3</td></tr> <tr><td>3</td><td>GP4</td><td>General Profile 4</td></tr> <tr><td>4</td><td>CP1</td><td>Closing Profile 1</td></tr> <tr><td>5</td><td>CP2</td><td>Closing Profile 2</td></tr> <tr><td>6</td><td>HLT</td><td>Hot Line Tag Profile</td></tr> </table>	Enumeration			Binary	Value	Description	0	GP1	General Profile 1	1	GP2	General Profile 2	2	GP3	General Profile 3	3	GP4	General Profile 4	4	CP1	Closing Profile 1	5	CP2	Closing Profile 2	6	HLT	Hot Line Tag Profile						
Enumeration																																			
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PRReason	UINT16	<table border="1"> <tr><td colspan="3">Enumeration</td></tr> <tr><td>Binary</td><td>Value</td><td>Description</td></tr> <tr><td>1</td><td>UnderFrequency</td><td>Under Frequency</td></tr> <tr><td>2</td><td>HotLineTag</td><td>Hot Line Tag</td></tr> <tr><td>3</td><td>ManualOperation</td><td>Manual Operation</td></tr> <tr><td>4</td><td>LocalCommand</td><td>Local Command</td></tr> <tr><td>5</td><td>AuxInput</td><td>Aux Input</td></tr> <tr><td>6</td><td>StateMismatch</td><td>State Mismatch</td></tr> <tr><td>7</td><td>SCADAMaster</td><td>SCADA Master</td></tr> </table>	Enumeration			Binary	Value	Description	1	UnderFrequency	Under Frequency	2	HotLineTag	Hot Line Tag	3	ManualOperation	Manual Operation	4	LocalCommand	Local Command	5	AuxInput	Aux Input	6	StateMismatch	State Mismatch	7	SCADAMaster	SCADA Master						
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7	SCADAMaster	SCADA Master																																	
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Numeric Type, Range: -16384-16383.5																																			
Action	Value																																		
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Definitions of Historic Events

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Binary	#####.#													
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Action	Value													
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Adder	0													
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Binary	##.#####													
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Action	Value													
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Adder	0													
Presentation														
Binary	##.#####													
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Action	Value													
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Adder	0													
Presentation														
Binary	###.#													
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Action	Value													
Multiplier	0.0001220703125													
Adder	0													
Presentation														
Binary	##.#####													
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Numeric Type, Range: -2-1.99993896484375														
Action	Value													
Multiplier	0.000061035													
Adder	0													
Presentation														
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Numeric Type, Range: -1-0.999969482421875														
Action	Value													
Multiplier	0.000030517578125													
Adder	0													

		<table border="1"> <tr><th colspan="2">Presentation</th></tr> <tr><td>Binary</td><td>##.#####</td></tr> </table>	Presentation		Binary	##.#####								
Presentation														
Binary	##.#####													
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Action	Value													
Multiplier	0.25													
Adder	0													
Presentation														
Binary	#####.													
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Action	Value													
Multiplier	0.125													
Adder	0													
Presentation														
Binary	####.###													
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Action	Value													
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Adder	0													
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Q5	INT16	<p>Q5</p> <table border="1"> <tr><th colspan="2">Numeric Type, Range: -1024-1023.96875</th></tr> <tr><th>Action</th><th>Value</th></tr> <tr><td>Multiplier</td><td>0.03125</td></tr> <tr><td>Adder</td><td>0</td></tr> </table> <table border="1"> <tr><th colspan="2">Presentation</th></tr> <tr><td>Binary</td><td>####.#####</td></tr> </table>	Numeric Type, Range: -1024-1023.96875		Action	Value	Multiplier	0.03125	Adder	0	Presentation		Binary	####.#####
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Action	Value													
Multiplier	0.03125													
Adder	0													
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Q6	INT16	<p>Q6</p> <table border="1"> <tr><th colspan="2">Numeric Type, Range: -512-511.984375</th></tr> <tr><th>Action</th><th>Value</th></tr> <tr><td>Multiplier</td><td>0.015625</td></tr> <tr><td>Adder</td><td>0</td></tr> </table> <table border="1"> <tr><th colspan="2">Presentation</th></tr> <tr><td>Binary</td><td>####.#####</td></tr> </table>	Numeric Type, Range: -512-511.984375		Action	Value	Multiplier	0.015625	Adder	0	Presentation		Binary	####.#####
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Action	Value													
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Q6V	INT16	<p>Q6</p> <table border="1"> <tr><th colspan="2">Numeric Type, Range: -512-511.984375</th></tr> <tr><th>Action</th><th>Value</th></tr> </table>	Numeric Type, Range: -512-511.984375		Action	Value								
Numeric Type, Range: -512-511.984375														
Action	Value													

Definitions of Historic Events

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Adder	0													
Presentation														
Binary	### V													
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Action	Value													
Multiplier	0.0078125													
Adder	0													
Presentation														
Binary	###.#####													
Q8	INT16	<p>Q8</p> <table border="1"> <tr> <td colspan="2">Numeric Type, Range: -128-127.99609375</td> </tr> <tr> <td>Action</td> <td>Value</td> </tr> <tr> <td>Multiplier</td> <td>0.00390625</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> <tr> <td colspan="2">Presentation</td> </tr> <tr> <td>Binary</td> <td>###.#####</td> </tr> </table>	Numeric Type, Range: -128-127.99609375		Action	Value	Multiplier	0.00390625	Adder	0	Presentation		Binary	###.#####
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Action	Value													
Multiplier	0.00390625													
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Definitions of Historic Events

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RTUAddress	UINT16	<p>DNP address</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0										
Numeric Type, Range: 0-65535																				
Action	Value																			
Multiplier	1																			
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RTUlists	UINT16	<p>Runner RTU lists</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0										
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Action	Value																			
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RunnerIndex	UINT16	<p>Local runner index number</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0										
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Action	Value																			
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RunnerNumber	UINT16	<p>Runner Number</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0										
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Definitions of Historic Events

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Multiplier	1																																																										
Adder	0																																																										
RunnerQuantity	UINT16	<p>Next data collection runner's quantity</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																																																	
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RunnerSize	UINT16	<p>Size of recieved runner in BYTES</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																																																	
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SBOTimerValue	UINT16	<p>Timer value for Select-Before-Operate. Unit = 0.1 sec.</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-6553.5</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>0.1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-6553.5		Action	Value	Multiplier	0.1	Adder	0																																																	
Numeric Type, Range: 0-6553.5																																																											
Action	Value																																																										
Multiplier	0.1																																																										
Adder	0																																																										
SecondaryEvent	UINT16	<p>Secondary Event Flag for WFC capture</p>																																																									

		<table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-1</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-1		Action	Value	Multiplier	1	Adder	0										
Numeric Type, Range: 0-1																				
Action	Value																			
Multiplier	1																			
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SectState	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Undefined</td> <td>State undefined</td> </tr> <tr> <td>1</td> <td>Fault</td> <td>Fault State</td> </tr> <tr> <td>2</td> <td>LOV</td> <td>Loss of voltage state</td> </tr> <tr> <td>3</td> <td>NoLOV</td> <td>Not in Loss of voltage state</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Undefined	State undefined	1	Fault	Fault State	2	LOV	Loss of voltage state	3	NoLOV	Not in Loss of voltage state
Enumeration																				
Binary	Value	Description																		
0	Undefined	State undefined																		
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SEEPErrorCode	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>CRCBad</td> <td>CRC Error</td> </tr> <tr> <td>1</td> <td>DataBad</td> <td>Data Error</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	CRCBad	CRC Error	1	DataBad	Data Error						
Enumeration																				
Binary	Value	Description																		
0	CRCBad	CRC Error																		
1	DataBad	Data Error																		
SetBatAlertCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>AlertOff</td> <td>Alert Off</td> </tr> <tr> <td>1</td> <td>AlertOn</td> <td>Alert On</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	AlertOff	Alert Off	1	AlertOn	Alert On						
Enumeration																				
Binary	Value	Description																		
0	AlertOff	Alert Off																		
1	AlertOn	Alert On																		
SetClearErrCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Clear</td> <td>Clear</td> </tr> <tr> <td>1</td> <td>Set</td> <td>Set</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Clear	Clear	1	Set	Set						
Enumeration																				
Binary	Value	Description																		
0	Clear	Clear																		
1	Set	Set																		
SetPrfCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>NormalGen</td> <td>Normal Gen</td> </tr> <tr> <td>1</td> <td>AltGen</td> <td>Alternate Gen</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	NormalGen	Normal Gen	1	AltGen	Alternate Gen						
Enumeration																				
Binary	Value	Description																		
0	NormalGen	Normal Gen																		
1	AltGen	Alternate Gen																		
SetRemoteOffAlertCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>AlertOff</td> <td>Alert Off</td> </tr> <tr> <td>1</td> <td>AlertOn</td> <td>Alert On</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	AlertOff	Alert Off	1	AlertOn	Alert On						
Enumeration																				
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0	AlertOff	Alert Off																		
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SettingsShiftStatus	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Success</td> <td>Success</td> </tr> <tr> <td>1</td> <td>OCSStillPres</td> <td>Overcurrent still present</td> </tr> <tr> <td>2</td> <td>BadTestSeqNo</td> <td>Bad test sequence number</td> </tr> <tr> <td>3</td> <td>BadRelayMask</td> <td>Invalid relay mask specified</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Success	Success	1	OCSStillPres	Overcurrent still present	2	BadTestSeqNo	Bad test sequence number	3	BadRelayMask	Invalid relay mask specified
Enumeration																				
Binary	Value	Description																		
0	Success	Success																		
1	OCSStillPres	Overcurrent still present																		
2	BadTestSeqNo	Bad test sequence number																		
3	BadRelayMask	Invalid relay mask specified																		
SetWIFICommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>WIFIOff</td> <td>WIFI Off</td> </tr> <tr> <td>1</td> <td>WIFION1</td> <td>WIFI On 1</td> </tr> <tr> <td>2</td> <td>WIFION2</td> <td>WIFI On 2</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	WIFIOff	WIFI Off	1	WIFION1	WIFI On 1	2	WIFION2	WIFI On 2			
Enumeration																				
Binary	Value	Description																		
0	WIFIOff	WIFI Off																		
1	WIFION1	WIFI On 1																		
2	WIFION2	WIFI On 2																		
ShiftDirection	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> </thead> </table>	Enumeration																	
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Definitions of Historic Events

		<table border="1"> <thead> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Direction1</td> <td>Direction1</td> </tr> <tr> <td>2</td> <td>Direction2</td> <td>Direction2</td> </tr> </tbody> </table>	Binary	Value	Description	1	Direction1	Direction1	2	Direction2	Direction2									
Binary	Value	Description																		
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ShiftState	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RequestActive</td> <td>Request Active</td> </tr> <tr> <td>2</td> <td>RequestCanceled</td> <td>Request Canceled</td> </tr> <tr> <td>3</td> <td>CEC</td> <td>CEC</td> </tr> <tr> <td>4</td> <td>GOOSE</td> <td>GOOSE</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	RequestActive	Request Active	2	RequestCanceled	Request Canceled	3	CEC	CEC	4	GOOSE	GOOSE
Enumeration																				
Binary	Value	Description																		
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ShiftType	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>TestSequence</td> <td>Test Sequence</td> </tr> <tr> <td>2</td> <td>SequenceCoord</td> <td>Sequence Coordination</td> </tr> <tr> <td>3</td> <td>CEC</td> <td>CEC</td> </tr> <tr> <td>4</td> <td>GOOSE</td> <td>GOOSE</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	TestSequence	Test Sequence	2	SequenceCoord	Sequence Coordination	3	CEC	CEC	4	GOOSE	GOOSE
Enumeration																				
Binary	Value	Description																		
1	TestSequence	Test Sequence																		
2	SequenceCoord	Sequence Coordination																		
3	CEC	CEC																		
4	GOOSE	GOOSE																		
short	INT16	<p>INT16</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: -32768-32767</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: -32768-32767		Action	Value	Multiplier	1	Adder	0										
Numeric Type, Range: -32768-32767																				
Action	Value																			
Multiplier	1																			
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SideInfo	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>SIDEUNKOWN</td> <td>Side information is unkown</td> </tr> <tr> <td>1</td> <td>SIDE1</td> <td>This team member is on side 1 of the switch</td> </tr> <tr> <td>2</td> <td>SIDE2</td> <td>This team member is on side of the switch</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	SIDEUNKOWN	Side information is unkown	1	SIDE1	This team member is on side 1 of the switch	2	SIDE2	This team member is on side of the switch			
Enumeration																				
Binary	Value	Description																		
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SinglePhOperCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Enabled</td> <td>Enabled</td> </tr> <tr> <td>2</td> <td>Blocked</td> <td>Blocked</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	1	Enabled	Enabled	2	Blocked	Blocked						
Enumeration																				
Binary	Value	Description																		
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2	Blocked	Blocked																		
SizeOfObject	UINT16	<p>Size of the arriving object in bytes, also a flag/signal of arrival to State machine A</p> <table border="1"> <thead> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </tbody> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0										
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SpecExtWFCCCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Disabled</td> <td>Disabled</td> </tr> <tr> <td>1</td> <td>Enabled</td> <td>Enabled</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Disabled	Disabled	1	Enabled	Enabled						
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SpecWFCCCommandArg	UINT16	<table border="1"> <thead> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Disabled</td> <td>Disabled</td> </tr> <tr> <td>1</td> <td>Enabled</td> <td>Enabled</td> </tr> </tbody> </table>	Enumeration			Binary	Value	Description	0	Disabled	Disabled	1	Enabled	Enabled						
Enumeration																				
Binary	Value	Description																		
0	Disabled	Disabled																		
1	Enabled	Enabled																		

SrcNodeID	UINT16	<p>NET Source Node ID</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																						
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Action	Value																															
Multiplier	1																															
Adder	0																															
State	UINT16	<p>State of the transition</p> <table border="1"> <tr> <th colspan="3">Enumeration</th> </tr> <tr> <th>Binary</th> <th>Value</th> <th>Description</th> </tr> <tr> <td>1</td> <td>TransON</td> <td>Transition to On</td> </tr> <tr> <td>2</td> <td>TransOFF</td> <td>Transition to Off</td> </tr> </table>	Enumeration			Binary	Value	Description	1	TransON	Transition to On	2	TransOFF	Transition to Off																		
Enumeration																																
Binary	Value	Description																														
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StatusFeedbackArea	UINT16	<p>Netx status feedback area, Data 1 is current state while Data 2 is the previous state</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65536</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65536		Action	Value	Multiplier	1	Adder	0																						
Numeric Type, Range: 0-65536																																
Action	Value																															
Multiplier	1																															
Adder	0																															
Substation	UINT16	<p>Present Substation</p> <table border="1"> <tr> <th colspan="2">Numeric Type, Range: 0-65535</th> </tr> <tr> <th>Action</th> <th>Value</th> </tr> <tr> <td>Multiplier</td> <td>1</td> </tr> <tr> <td>Adder</td> <td>0</td> </tr> </table>	Numeric Type, Range: 0-65535		Action	Value	Multiplier	1	Adder	0																						
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Definitions of Historic Events

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Definitions of Historic Events

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Definitions of Historic Events

		5	V0ResetTimingX	V0-Reset-Timing-X
		6	V0ResetTimingy	V0-Reset-Timing-Y
		7	AndG1X	AndG1-X
		8	AndG1Y	AndG1-Y
		41	LatchSX	Latch-S-X
		42	LatchSY	Latch-S-Y
		43	LatchRX	Latch-R-X
		44	LatchRY	Latch-R-Y
		45	LatchQX	Latch-Q-X
		46	LatchQY	Latch-Q-Y
		47	V0ResetTripX	V0-Reset-Trip-X
		48	V0ResetTripY	V0-Reset-Trip-Y
		49	AndG2X	AndG2-X
		50	AndG2Y	AndG2-Y
		51	TTTimingX	TT-Timing-X
		52	TTTimingY	TT-Timing-Y
		53	TTShiftTimeX	TT-ShiftTime-X
		54	TTShiftTimeY	TT-ShiftTime-Y
		55	TTTRIPX	TT-TRIP-X
		56	TTTRIPY	TT-TRIP-Y
		Enumeration		
		Binary	Value	Description
		1	Current	High Current
		2	NormalCurnt	Normal Current
		3	VorFreqAbnrm	Volt/Freq Abnormal
		4	VorFreqNorm	Volt/Freq Normal
		7	CheckOpen	CheckOpen
		8	PulseorClose	Pulse/Close
		9	BlockClose	Block Close
		10	PoleError	Pole Error
		11	LeverOpen	Lever Open
		12	Timer	Timer
		13	User	User
		14	LCEFlag	LCE Flag
		17	BadVoltageSensor	Bad Voltage Sensor
		18	AllPolesClosed	All Poles Closed
		19	BadFreqAlarm	Bad Frequency Alarm
		20	LkgCurChkErr	Leakage Current Check Error
		21	LkgCurSurvey	Leakage Current Survey
		22	RepulseCapture	Repulse Capture
		23	PulseCapture	Pulse Capture
		25	VLossFMS	Voltage Loss FMS
		26	DTAP	DTAP
		27	Wattmetric	Wattmetric
WFCTrigger	UINT16			
WFCTriggerInstance	UINT16	Union		

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16385	ZeroNegXnoPU	zero+neg points to X, no pick up																																																																																										
16393	ZeroNegXSeq	based on zero+neg seq.																																																																																										
16389	ZeroNegYnoPU	zero+neg point to Y, no pick up																																																																																										

Definitions of Historic Events

16397	ZeroNegYSeq	based on zero+neg seq.
16387	ZeroXnoPU	zero points to x, no pick up
16395	ZeroXSeq	based on zero seq.
16391	ZeroYnoPU	zero points to Y, no pick up.
16399	ZeroYSeq	based on zero seq.

Table 3. Historic Events (1704 items)

Event Code (hex)	Event Code (dec)	Description	Category	Logging Level	Definition
0201	513	Event Register OK	DAT[MCU]	Normal	<p>The task indicated has enabled event registering for the specified team. The registering of an event is the process of making all team members aware that an event has occurred.</p> <p>Data 1: Team Data1 Type: Team Data 2: Task Data2 Type: Task Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0202	514	Error Getting Internal IR Data	DAT[MCU]	Normal	<p>An error was detected when the IntelliTEAM II software collected data related to the internal switch function.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0203	515	Error Getting Local IR Data	DAT[MCU]	Normal	<p>An error was detected when the IntelliTEAM II software retrieved data for the local switch in the specified team. This may occur if the switch/position number configured on the SETUP: Team screen is incorrect.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0204	516	Error Writing Coach Task-List Full	DAT[MCU]	Normal	<p>The list of pending tasks that the coach carries between team members is full in the specified team. No more tasks can be put on this list until one or more of the existing tasks have been completed.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0205	517	Error Writing Event Task-List Full	DAT[MCU]	Normal	<p>The list of pending team-related tasks is full in the specified team. No more tasks can be put on this list until one or more of the existing tasks have been completed.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0206	518	Error Writing Member Task-List Full	DAT[MCU]	Normal	<p>The list of pending member-process tasks is full in the specified team. No more tasks can be put on this list until one or more of the existing tasks have been completed.</p> <p>Data 1: Team Data1 Type: Team</p>

					<p>Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0207	519	Error Writing Comm Task-List Full	DAT[MCU]	Normal	<p>The coach or the team member needs to send a new message to another team member and the DNP communications buffer is full. Existing transactions must be completed before more are put on the communications list.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0208	520	Error Getting Comm Task From List	DAT[MCU]	Normal	<p>An error was detected when removing a message from the DNP communications buffer.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0209	521	New Coach Generated	DAT[MCU]	Normal	<p>A new coach has been generated at the local team member for the specified team. This could be caused by a power up state, by the existing coach being lost due to communications error, or by the existing coach data being inconsistent.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
020A	522	Coach Old or Duplicate or CRC Bad	DAT[MCU]	Extended	<p>The coach received by the specified team is not the current coach - it is a duplicate of the current coach or it contains data inconsistent with the presently expected data. The coach is rejected.</p> <p>Data 1: Team Data1 Type: Team Data 2: Coach Rejection Code Data2 Type: CoachRejectionCode Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
020B	523	Old or Duplicate Task Discarded	DAT[MCU]	All	<p>The task taken from the event list on the specified team is either old or is a duplicate of an existing task. This occurs normally in the operation of the team as events are distributed throughout the team.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
020C	524	Switch Not Ready for Transfer	DAT[MCU]	Normal	<p>The local IR on the specified team is not ready for transfer operations. This may be caused by an internal switch error (for example, a bad battery).</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
020D	525	Unknown Event/Task Request	DAT[MCU]	Normal	<p>An event or task for which the local team member is not programmed was requested within the specified team.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>

Definitions of Historic Events

020E	526	Find Alternate Source Result	DAT[MCU]	Normal	<p>During a transfer event, the team must find an alternate source, based on the alternate source sequence and the normal function of the switches within the team (both entered on the SETUP: Team screen). This message indicates the resulting switch record, to be used for the team indicated.</p> <p>Data 1: Team Data1 Type: Team Data 2: Rec Data2 Type: MemberWithDoneAndEOL Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
020F	527	Register Event Disabled	DAT[MCU]	Normal	<p>The registering of events for distribution within the specified team has been disabled at the local team member. This was probably caused by a change in the team's configuration on the SETUP: Team screen.</p> <p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0210	528	Member Requested	DAT[MCU]	All	<p>The specified team has requested that the local team member execute the task indicated.</p> <p>Data 1: Team Data1 Type: Team Data 2: Task Data2 Type: Task Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0211	529	Close Switch OK	DAT[MCU]	Normal	<p>The switch/position indicated was successfully closed by the specified team.</p> <p>Data 1: Team Data1 Type: Team Data 2: Switch Position Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0212	530	Switch Closing Issue	DAT[MCU]	Extended	<p>The switch/position indicated didn't close or remain closed after a request by the specified team. Automatic operation may have been disabled at this team member, or the switch may have reopened during the shots-to-lockout time period.</p> <p>Data 1: Team Data1 Type: Team Data 2: Switch position Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0213	531	Transfer Approved	DAT[MCU]	Normal	<p>The transfer operation requested by the specified team, using the alternate source switch previously determined, was approved by the adjacent teams. The approval code is also shown. For details on the code, contact S&C.</p> <p>Data 1: Team Data1 Type: Team Data 2: Restore Condition Test Result Data2 Type: RestoreConditionTestResult Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0214	532	Transfer Declined	DAT[MCU]	Normal	<p>The transfer operation requested by the specified team has been declined by the adjacent teams. The requesting team must look for another alternate source, or retry the operation on this alternate source if no other exists. Possible codes are: (code- definition) 2- Fault isolated, 3- Excessive load, 4- Open team not prepared for the transfer, 5- Closed team not prepared for the transfer, 6- Line segment limit exceeded, 7- Issue detected on one of the teams, 8-</p>

					Phase loss isolated, 9- Source breaker isolated. Data 1: Team Data1 Type: Team Data 2: Restore Condition Test Result Data2 Type: RestoreConditionTestResult Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0215	533	Switch Open OK	DAT[MCU]	Normal	The specified team successfully opened the switch/position indicated. Data 1: Team Data1 Type: Team Data 2: Switch Position Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0216	534	Switch Opening Unsuccessful	DAT[MCU]	Normal	The specified team was unable to open the switch/position indicated. Data 1: Team Data1 Type: Team Data 2: Switch Position Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0217	535	Operation Switch Function Return	DAT[MCU]	Extended	This message displays the internal code returned during the operation of the local switch in the specified team. Contact S&C for code details, this code is application specific. Data 1: Team Data1 Type: Team Data 2: Switch Operation Result Code Data2 Type: SwitchOperationResult Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0218	536	Coach Arrived	DAT[MCU]	All	This message logs the arrival of the coach, along with all the updated data, at the local team member for the specified team. Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0219	537	Coach Has Departed	DAT[MCU]	All	This message logs the departure of the coach from the local team member for the specified team, and indicates where the coach is going next. Data 1: Team Data1 Type: Team Data 2: Goto Rec Data2 Type: TeamRecord Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
021A	538	Sequence Numbers Resynchronization	DAT[MCU]	Normal	The sequence numbers of events for the specified team have fallen out of synchronization. The last sequence number received is shown. The local team member will now resynchronize the number. Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
021B	539	Coach Arrived on Request	DAT[MCU]	All	This message logs the arrival of the coach at the local team member of the specified team after the local team member requested the coach. Data 1: Team Data1 Type: Team

Definitions of Historic Events

					<p>Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
021C	540	Volt/Fault Reset Occurred	DAT[MCU]	Extended	<p>The voltage loss and overcurrent indications maintained by the IntelliTEAM II software have been reset after either the Sectionalizer Reset Time or, if a transfer event has occurred, after team reconfiguration is complete.</p> <p>Data 1: Switch Position Data1 Type: SwitchPosition Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
021D	541	Coach is Held by Team Member	DAT[MCU]	All	<p>The coach for the specified team is being held by the local team member. This occurs when a process is taking place at the local team member that requires the presence of coaches from both adjacent teams.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
021E	542	Line Segment Faulted	DAT[MCU]	Normal	<p>The line segment protected by the specified team is the location of the overcurrent fault on the circuit. The team will not attempt to restore service to this line segment.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
021F	543	IR Opened for Transfer	DAT[MCU]	Normal	<p>During a transfer event, the coach of the specified team opened the switch indicated to allow the transfer operation to continue. This may occur when one or more switches within the team are not coordinated to open at the same time as the other switches.</p> <p>Data 1: Team Data1 Type: Team Data 2: Rec Data2 Type: SwitchRecord Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0220	544	Ret to Normal Start Event Request	DAT[MCU]	Normal	<p>The Return to Normal timer has expired, allowing the Return to Normal process to start on the specified team. This message indicates that the specified team generated the event.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0221	545	Return To Normal Disabled at Switch	DAT[MCU]	Normal	<p>The Return to Normal process will not be carried out on the specified team because Return to Normal is disabled on the SETUP: Team screen.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0222	546	Ret to Normal Timer Started	DAT[MCU]	Normal	<p>The Return to Normal timer was started by the local team member of the specified team.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort</p>

					<p>Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0223	547	Ret to Normal Start Event Received	DAT[MCU]	Normal	<p>The local team member of the specified team received a request to start the Return to Normal process. This follows the end of the Return to Normal timer and the subsequent event request.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0224	548	Return to Normal Process Stopped	DAT[MCU]	Extended	<p>The Return to Normal process completed at the local team member with the indicated completion code. For details on the code, contact S&C.</p> <p>Data 1: Team Data1 Type: Team Data 2: Code Data2 Type: InternalCode Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0225	549	Return to Normal Continue OK	DAT[MCU]	Normal	<p>The internal Return to Normal process for the specified team indicated that Return to Normal may continue to the next step. The process result code is also shown.</p> <p>Data 1: Team Data1 Type: Team Data 2: Code Data2 Type: InternalCode Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0226	550	Task Travel	DAT[MCU]	All	<p>During a Return to Normal process, tasks associated with the process travel among multiple teams between the normal source and the normal tie point of the circuit. This message traces the path of the tasks.</p> <p>Data 1: from Team Data1 Type: Team Data 2: Team Data2 Type: Team Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0227	551	Ret to Normal Process UnSuccess	DAT[MCU]	Normal	<p>The internal Return to Normal process for the specified team indicated that Return to Normal cannot continue. This may be caused by a team member that has Return to Normal disabled (Code 7), or by the adjacent source team not yet being in its normal state (Code 6).</p> <p>Data 1: Team Data1 Type: Team Data 2: Code Data2 Type: InternalCode Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0228	552	Config Update - Operation Suspended	DAT[MCU]	Normal	<p>The team configuration of any of the active local teams is being changed on the SETUP: Team screen. While this change is in progress, team operation is suspended.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
022A	554	Internal Test Point	DAT[MCU]	Normal	<p>A general internal message to display data that may be helpful during diagnostics. Please contact S&C if you see this message.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort</p>

Definitions of Historic Events

					<p>Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
022B	555	Coach Collect Data	DAT[MCU]	Extended	<p>This message logs the collection of new data by the coach in the specified team. This data collection process occurs during the start of a transfer event. The team record where the coach is going is also shown.</p> <p>Data 1: Team Data1 Type: Team Data 2: Goto Rec Data2 Type: MemberWithDoneAndEOL Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
022C	556	Coach Hold Override	DAT[MCU]	All	<p>When the team member of the specified team holds the coach for an extended period of time, an override occurs that allows the coach to briefly visit other team members. This prevents the coach from becoming old and regenerated by an adjacent team member. The team record where the coach is going is also shown.</p> <p>Data 1: Team Data1 Type: Team Data 2: Goto Rec Data2 Type: TeamRecord Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
022D	557	Rebuilding Coach	DAT[MCU]	Normal	<p>The coach for the specified team is being regenerated. This may be caused by a power up event, a configuration change in the team, or a lost coach due to communications error. A diagnostic code is also shown, contact S&C for code details.</p> <p>Data 1: Team Data1 Type: Team Data 2:Task identifier Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0230	560	Team Not Ready - Discard Task	DAT[MCU]	All	<p>The indicated task has been discarded because the specified team was not ready to transfer. This is typically the result of a local or team error condition.</p> <p>Data 1: Team Data1 Type: Team Data 2: Task Data2 Type: Task Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0231	561	SCADA Prohibit Restoration Active	DAT[MCU]	Normal	<p>A SCADA command was received to prevent the restoration of any load by this team member (the switch may not close automatically), however protection is not affected. If applicable, this message will also be displayed on power up.</p> <p>Data 1:Debug Data Data1 Type: PRReason Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0232	562	Timer Prohibit Restoration Active	DAT[MCU]	Normal	<p>The Prohibit Restoration Timer expired, preventing the restoration of load by the team for which the timer expired, however automatic sectionalizing is not affected. If applicable, this message will also be displayed on power-up.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0235	565	Team Communication Error	DAT[MCU]	Normal	<p>A team-related message could not be delivered.</p> <p>Data 1: Team Data1 Type: Team</p>

					<p>Data 2: RTU Data2 Type: RTUAddress Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0236	566	Monitor Line Segment	DAT[MCU]	All	<p>The specified team has an indication to start a transfer event, but the line segment is still energized. The team monitors the segment until it is deenergized.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0238	568	Not All Configured Teams Xfer Ready	DAT[MCU]	Normal	<p>At least one of the active teams where the local control is a member is not fully operational.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0239	569	Transfer in Progress on Any Team	DAT[MCU]	Normal	<p>A team is in the process of reconfiguring the circuit and transferring load to an alternate source.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
023A	570	RTN in Progress on Any Team	DAT[MCU]	Normal	<p>A team is presently returning the circuit to its normal configuration.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
023B	571	Adjust Line Segment Count	DAT[MCU]	Extended	<p>Specified team has increased or decreased the line segment count associated with the Line Segment Limit set point, following a transfer event.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
023C	572	Software Mismatch on Arriving Coach	DAT[MCU]	Normal	<p>There is a software revision incompatibility within the team. The data fields show revision and version information for the team member from which the coach just arrived.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
023D	573	Switch Open - Extended Parallel	DAT[MCU]	Normal	<p>During a closed transition Return to Normal, the team member at a tie switch automatically opened the switch after a prescribed timeout. This insured that a circuit parallel was not left in place indefinitely. This condition is not normal, and may have resulted in load being dropped.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
023E	574	Unexpected State Change	DAT[MCU]	Extended	<p>The transfer state went through an unexpected transition at the specified team. This error might stop an ongoing transfer process.</p>

Definitions of Historic Events

					<p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
023F	575	Loading Data Reset	DAT[MCU]	Extended	<p>When a transfer with a known load value occurs, the IntelliTEAM II software resets the loading data to reflect the new value. This updates the information more quickly than the 2-minute load averaging. The code relates to the state of the reset process.</p> <p>Data 1: Team Data1 Type: Team Data 2: Task identifier Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0240	576	Contract Receiver Busy	DAT[MCU]	Extended	<p>A contract agent's receiver buffer was full, so a contract message was dropped. The numbers for the specified agent are associated with the RTU address at the originating team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Agent Data3 Type: Agent Data 4: Debug Data Data4 Type: ushort</p>
0241	577	Contract Added to List	DAT[MCU]	All	<p>A new contract was added to the list of contracts being maintained. This message shows both the requesting and granting teams associated with the transfer process. The requesting team (Team 1) identifies the origin of the contract.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Team Data3 Type: Team Data 4: Team Data4 Type: Team</p>
0242	578	New Contract Addition Issue	DAT[MCU]	Extended	<p>A contract agent tried to add a new contract to its list but could not, so the contract was declined. The number for the specified agent is associated with the RTU address at the originating team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0243	579	Contract Pending Issue	DAT[MCU]	Extended	<p>The requesting contract agent was waiting for a response when the timer ran out, so it the contract was unsuccessful. The coach may restart the contract request if it cannot find another alternate source. This message shows the two teams involved with the transfer process at this team member location, where (Team 1) is the requesting team.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0244	580	Contract Request Was Declined	DAT[MCU]	Normal	<p>The granting agent declined the contract request. The number for the specified agent is associated with the RTU address at the originating team member. Note that this message can appear at any agent with the contract on its list.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>

0245	581	Contract General Error	DAT[MCU]	Extended	<p>The specified contract agent detected a contract error. The number for the agent is associated with the RTU address at the team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0246	582	Contract Request Travel	DAT[MCU]	All	<p>A contract request is traveling between teams. (Team 1) is the segment through which the request just came, and (Rec 2) is the team member in the direction where the request is headed.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: Team Data2 Type: Team Data 3: TeamRecord Data3 Type: TeamRecord Data 4: Debug Data Data4 Type: ushort</p>
0247	583	Contract Request Was Accepted	DAT[MCU]	Normal	<p>The granting agent accepted the contract. The number for the specified agent is associated with the RTU address at the originating team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0248	584	Contract is Being Dissolved	DAT[MCU]	Extended	<p>An active contract is no longer needed and is in the process of being dissolved. The number for the specified agent is associated with the RTU address at the originating team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0249	585	Contract Started by Member	DAT[MCU]	All	<p>A member of the specified team has determined that it can close based on information from the coach, but it must first request a contract.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Team Data3 Type: Team Data 4: TeamRecord Data4 Type: TeamRecord</p>
024A	586	Contract Approved Switch Close	DAT[MCU]	Normal	<p>The specified team requested a contract, which then traveled to the granting agent, was approved, and came back. The switch has closed to energize the line segment.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Team Data3 Type: Team Data 4: Debug Data Data4 Type: ushort</p>
024B	587	Contract Declined	DAT[MCU]	Normal	<p>The contract request made by the specified team was declined.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Team Data3 Type: Team Data 4: Debug Data Data4 Type: ushort</p>
024C	588	Contract Requested by Member	DAT[MCU]	Normal	<p>The local team member has requested that the contract agent negotiate a contract on behalf of the specified team.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition</p>

Definitions of Historic Events

					<p>Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
024D	589	Contract Requires Member Wait	DAT[MCU]	All	<p>The specified team is waiting for a contract to be requested, granted, or declined.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Team Data3 Type: Team Data 4:Debug Data Data4 Type: ushort</p>
024E	590	Contract Communication Received	DAT[MCU]	All	<p>The contract agent has received a message. (Team 1) refers to the contract's originating segment, and (Team 2) refers to the temporary segment, usually the segment through which the message just passed.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3:Debug Data Data3 Type: ushort Data 4: ContractState Data4 Type: ContractState</p>
024F	591	Contract Maintained	DAT[MCU]	All	<p>Scheduled maintenance of a contract was performed by the specified requesting agent to confirm the continued need for the contract. The number for the agent is associated with the RTU address at the team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0250	592	Duplicate Contract Received	DAT[MCU]	All	<p>The specified requesting agent received an old or duplicate contract message, which refers to the indicated contract state. The number for the agent is associated with the RTU address at the team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: ContractState Data3 Type: ContractState Data 4:Debug Data Data4 Type: ushort</p>
0251	593	Contract Transmit Busy	DAT[MCU]	All	<p>A contract agent's transmit buffer was full. The message is held until the transmit buffer has space, and is then sent. The number for the specified agent is associated with the RTU address at the originating team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0252	594	Contract Dissolved by Member	DAT[MCU]	Extended	<p>The local team member has started the process to dissolve an active contract on behalf of the specified team.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Team Data3 Type: Team Data 4:Debug Data Data4 Type: ushort</p>
0253	595	Contract Resource Limitation	DAT[MCU]	Normal	<p>A contract agent found that resources were not available for load transfer, because of either segment limitations (Code 2) or capacity limitations (Code 3). The contract agent did not forward the contract any further.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: ushort Data2 Type: ushort</p>

					<p>Data 3: ushort Data3 Type: ushort Data 4: ushort Data4 Type: ushort</p>
0254	596	Contract Cannot Travel	DAT[MCU]	All	<p>The requesting contract agent does not know where the present source is, so it could not forward the contract request. The contract failed. The number for the specified agent is associated with the RTU address at the team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0255	597	Contract Not Found	DAT[MCU]	All	<p>A contract agent received a message about a contract that is not in its list. This may result in the contract being dissolved and, if necessary, reactivated. The number for the specified agent is associated with the RTU address at the originating team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0256	598	Contract Reactivated	DAT[MCU]	Extended	<p>The contract is missing somewhere along its routing path, so the requesting agent reactivated the contract. The number for the specified agent is associated with the RTU address at the originating team member.</p> <p>Data 1: Agent Data1 Type: Agent Data 2: SwitchPosition Data2 Type: SwitchPosition Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0257	599	Alternate Source Flag Cleared	DAT[MCU]	Extended	<p>The line segment associated with the specified team is no longer being fed from an alternate source. This message usually follows a Return to Normal operation.</p> <p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0258	600	Member Cleared Task Lock Attributes	DAT[MCU]	All	<p>The team member logic cleared the execution lock on tasks present on the task list. These tasks may now be executed by the team member.</p> <p>Data 1: Debug Data Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0259	601	Pending Comm Message Cleared	DAT[MCU]	All	<p>The coach has determined that a pending message is no longer valid, and should be removed from the communications transmit list.</p> <p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
025A	602	Prohibit Restoration Timer Expired	DAT[MCU]	Normal	<p>The timer for the Prohibit Restoration feature has expired and will cause Prohibit Restoration to become active. (Team 1) indicates the team number to which this event applies.</p> <p>Data 1: Debug Data Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort</p>

Definitions of Historic Events

					<p>Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
025B	603	Action Path Complete	DAT[MCU]	All	<p>This message is displayed when the action path for operating the switch gear has completed all possible steps in either the forward or reverse direction.</p> <p>Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
025C	604	Next Action	DAT[MCU]	All	<p>The operation of the switch gear is progressing to the next action within the action path. (Action 1) indicates the action to be taken and can be one of the following codes: 3 Close for xfer, 20 Contract request, 21 Contract Terminate, 30 Block recloser, 31 Unblock recloser, 33 Block ground trip, 34 Unblock ground trip, 36 Alternate settings, 37 Normal, 253 Action path done. (Direction 2) is the direction the action path is going, either Forward (1) or Reverse (2).</p> <p>Data 1: Action Data1 Type: Action Data 2: Direction Data2 Type: Direction Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
025D	605	Control Feature OK	DAT[MCU]	Extended	<p>Indicates the requested control feature executed normally. Possible point values are: 1 Point to operate switch, 2 Point to block reclosing, 3 Point to block ground trip, 4 Point to change profile.</p> <p>Data 1: Team Data1 Type: Team Data 2: Point Data2 Type: Point Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
025E	606	Control Feature Unsuccessful	DAT[MCU]	Normal	<p>Indicates the requested control feature did not execute normally. Data2 Points: 1= Operate IntelliRupter, 2= Block reclosing, 3= Block ground trip, 4= Change profile.</p> <p>Data 1: Team Data1 Type: Team Data 2: Point Data2 Type: Point Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
025F	607	Alternate Source Flag Set	DAT[MCU]	Normal	<p>Alternate Source Flag Set.</p> <p>Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0264	612	Volt/Fault Idle Transfer State	DAT[MCU]	All	<p>This message is output when all teams that the IntelliRupter is a member of have their transfer stated back to idle, signaling a reset of the total 3 phase average load.</p> <p>Data 1: Switch Position Data1 Type: SwitchPosition Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0266	614	Volt/Fault Overcurrent Cleared	DAT[MCU]	All	<p>This message is output when an overcurrent fault was previously detected, the field now is not faulted and 3 phase voltage has returned, causing the coach to clear the latched overcurrent condition. For details on (Rec 2) contact S&C.</p> <p>Data 1: Team Data1 Type: TeamRecord</p>

					<p>Data 2: Rec Data2 Type: SwitchRecord Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0267	615	Volt/Fault Voltage Loss Cleared	DAT[MCU]	All	<p>The coach clears a 3 phase voltage loss when: 3 phase voltage loss was previously detected and real time 3 phase voltage is now present and either the external device is in its normal state or the external device's normal job is a source sub. For details on Rec 2, contact S&C.</p> <p>Data 1: Team Data1 Type: TeamRecord Data 2: Rec Data2 Type: SwitchRecord Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0268	616	Volt/Fault Phase Loss Cleared	DAT[MCU]	All	<p>This message is output when a phase loss was previously detected, the external device is now in its normal open or close state, real time 3 phase voltage is present, causing the coach to clear the latched phase loss condition. For details on (Rec 2) contact S&C.</p> <p>Data 1: Team Data1 Type: TeamRecord Data 2: Rec Data2 Type: SwitchRecord Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0269	617	DNP Feeder Loading Data Received	DAT[MCU]	All	<p>Feeder loading data has been received from the source substation or breaker, and may be used in determining the capacity of the circuit during transfer operations. Data 1 indicates the circuit loading received in increments of 10 amps per count.</p> <p>Data 1: Data Data1 Type: LoadingCurrent Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
026A	618	Error Cleared - Gathering Data	DAT[MCU]	Normal	<p>The error collecting data related to the internal switch function was cleared.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
026B	619	IntelliRupter is Ready for Transfer	DAT[MCU]	Normal	<p>The local switch on the specified team is ready for transfer operations.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
026C	620	Config Update Operation Resumed	DAT[MCU]	Normal	<p>The team configuration of any of the active local teams has been re-enabled on the SETUP: Team screen. Team operation is resumed.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
026D	621	SCADA Prohibit Restoration Cleared	DAT[MCU]	Normal	<p>A SCADA command was received to reenble the restoration of load by this team member, and the switch may be closed automatically. If applicable, this message will also be displayed on power up.</p> <p>Data 1:Debug Data Data1 Type: ushort</p>

Definitions of Historic Events

					<p>Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
026E	622	Timer Prohibit Restoration Cleared	DAT[MCU]	Normal	<p>A SCADA command was received to reenble the restoration of load by this team member, and the switch may be closed automatically. If applicable, this message will also be displayed on power up.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
026F	623	All Teams Are Transfer Ready	EVT[MCU]	Normal	<p>All teams are fully operational, and may close switches as necessary to transfer load and reconfigure the circuit.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0270	624	Transfer Not Active on Any Team	DAT[MCU]	Normal	<p>No teams are presently reconfiguring the circuit or transferring load.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0271	625	RTN Not Active on Any Team	DAT[MCU]	Normal	<p>No teams are presently returning the circuit to its normal configuration.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0272	626	Unknown Message Type Received	DAT[MCU]	Normal	<p>An IntelliTEAM message was received over communications but contains a message type that is not recognized. The team the message was intended for, and the message type received, are included in the data.</p> <p>Data 1: Team Data1 Type: Team Data 2: Message Type Received Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0273	627	Request Xfer Trip Prohibit Restoration	DAT[MCU]	Normal	<p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0274	628	Req Xfer Trip Prohibit Rest on DG Team	DAT[MCU]	Normal	<p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0275	629	Xfer Trip Prohibit Restoration Active	DAT[MCU]	Normal	<p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort</p>

Definitions of Historic Events

					Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0276	630	Xfer Trip Prohibit Restoration Cleared	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0277	631	DG Reconnect Delay Started	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0278	632	DG Reconnect Delay Expired	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0279	633	Not All Prohibit Rest Flags Cleared	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
027A	634	Request Switch Close For DG Reconnect	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
027B	635	Switch Closed For DG Reconnection	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
027C	636	DG Reconnect Delay Terminated	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
027D	637	DG Reconnect Delay Disabled	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
027E	638	DG Reconnect Delay Counting Down	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
027F	639	Start Monitoring TTPR	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort

Definitions of Historic Events

					Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0280	640	Continue Monitoring TTPR	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0281	641	Could Not Find DG	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0282	642	Could Not Find Normal Source	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0283	643	Stop Monitoring TTPR	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0284	644	Source Side Team Not Defined	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0285	645	Could Not Start Monitoring TTPR	DAT[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0287	647	Transfer Declined	DAT[MCU]	Normal	Data 1: Team Data1 Type: Team Data 2: ExcessLoad Data2 Type: ExcessLoad Data 3: Unused Data3 Type: ushort Data 4: Debug Data Data4 Type: HealingType
0288	648	Transfer Declined Excess Load Inactive	DAT[MCU]	Normal	Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: XferInactiveReason Data 3: Unused Data3 Type: ushort Data 4: Unused Data4 Type: ushort
0289	649	Transfer Declined	DAT[MCU]	Normal	Data 1: Team Data1 Type: Team Data 2: LineSegLimit Data2 Type: LineSegLimit Data 3: Unused Data3 Type: ushort Data 4: Debug Data Data4 Type: HealingType

028A	650	Transfer Declined Line Seg Limit Off	DAT[MCU]	Normal	<p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: XferInactiveReason Data 3: Unused Data3 Type: ushort Data 4: Unused Data4 Type: ushort</p>
028D	653	DG Reconnect Delay Terminated Cleared	DAT[MCU]	Normal	<p>Data 1: Debug Data Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0290	656	Normally Open Switch Automatic Open	DAT[MCU]	Normal	<p>A normally open team member has opened for an automatic (IntelliTEAM-initiated) reason. This may happen during Return To Normal process. The team and the member record number are provided.</p> <p>Data 1: Team Data1 Type: Team Data 2: Rec Data2 Type: SwitchRecord Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0291	657	DNP Message Rejected	DAT[MCU]	Normal	<p>An IntelliTEAM communication message to the provided RTU was rejected by communications. The rejection code is provided.</p> <p>Data 1: Rtu Data1 Type: RTUAddress Data 2: Code Data2 Type: CommErrorCode Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0292	658	Transfer State Change	DAT[MCU]	All	<p>The transfer state changed for the specified team.</p> <p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0293	659	Manual Operation Team Condition On	DAT[MCU]	Normal	<p>A team entered a non-operational state because an unexpected manual switch operation occurred. Typically the only expected manual switch operation is closing a source switch on a previously faulted team which proves that the fault is gone, and allows RTN process to take place (if RTN is enabled).</p> <p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0294	660	Manual Operation Team Condition OFF	DAT[MCU]	Normal	<p>The unexpected manual switch operation team condition was cleared. This can only occur as a result of a user request.</p> <p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0295	661	Manual Operation Not Cleared	DAT[MCU]	Normal	<p>Manual Operation condition could not be cleared on a user request because the local team member is not in its normal state.</p> <p>Data 1: Team Data1 Type: Team Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>

Definitions of Historic Events

0296	662	Wait For Team to Open	DAT[MCU]	Normal	IntelliTEAM is waiting for all switches in the team to open so that it can attempt to restore service to the team. This is likely to occur only during a 2nd contingency event. Data 1: team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0297	663	Bad Voltage Reopen Flag	DAT[MCU]	Normal	Associated with the Team Member Requalify Time feature. Value of 1 means that the team member is disqualified on an unsuccessful attempt to close and a timer is started. Value of 0 means that the timer has cleared, and the team member can be considered as an alternate source again. Data 1: Team Data1 Type: Team Data 2: Flag value Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0298	664	ITII Source Loading Data Active	DAT[MCU]	Normal	
0299	665	ITII Source Loading Data Not Active	DAT[MCU]	Normal	
029A	666	ITII RT-Load Data Problem	DAT[MCU]	Normal	
029B	667	ITII RT-Load Data Problem Cleared	DAT[MCU]	Normal	
029C	668	ITII Cycling Stat Cleared(team rec)	DAT[MCU]	Normal	Data 1: Team Data1 Type: TeamRecord Data 2: Rec Data2 Type: SwitchRecord
029D	669	Team 1 is Ready to Transfer	EVT[MCU]	Extended	
029E	670	Team 1 is in Not Ready state	EVT[MCU]	Extended	
029F	671	Team 2 is Ready to Transfer	EVT[MCU]	Extended	
02A0	672	Team 2 is in Not Ready state	EVT[MCU]	Extended	
02A1	673	Team 3 is Ready to Transfer	EVT[MCU]	Extended	
02A2	674	Team 3 is in Not Ready state	EVT[MCU]	Extended	
02A3	675	Team 4 is Ready to Transfer	EVT[MCU]	Extended	
02A4	676	Team 4 is in Not Ready state	EVT[MCU]	Extended	
02A5	677	Team 5 is Ready to Transfer	EVT[MCU]	Extended	
02A6	678	Team 5 is in Not Ready state	EVT[MCU]	Extended	
02A7	679	Team 6 is Ready to Transfer	EVT[MCU]	Extended	
02A8	680	Team 6 is in Not Ready state	EVT[MCU]	Extended	
02A9	681	Team 7 is Ready to Transfer	EVT[MCU]	Extended	

02AA	682	Team 7 is in Not Ready state	EVT[MCU]	Extended	
02AB	683	Team 8 is Ready to Transfer	EVT[MCU]	Extended	
02AC	684	Team 8 is in Not Ready state	EVT[MCU]	Extended	
02AD	685	RSH start after switch open	DAT[MCU]	All	Rapid Self Healing is being started after a switch has opened to isolate trouble. Data 1: Team Data1 Type: ushort
02AE	686	RSH error - downstream team	DAT[MCU]	All	Rapid Self Healing was unable to restore load based on information from a team on the load side of the fault. Data 1: Team Data1 Type: ushort
02AF	687	RSH error - faulted team	DAT[MCU]	All	Rapid Self Healing was unable to restore load based on the information from the faulted team. Data 1: Team Data1 Type: ushort
02B0	688	RSH monitoring in process	DAT[MCU]	All	Indicates that a coach monitoring task was started to watch the progress of the Rapid Self Healing process. This task will be used to revert back to a standard restoration process if Rapid Self Healing is unable to restore the load. Data 1: Team Data1 Type: ushort
02B1	689	RSH has become active	DAT[MCU]	All	Logged when the coach is requested to make Rapid Self Healing active in that team. Data 1: Team Data1 Type: ushort
02B2	690	RSH has become inactive	DAT[MCU]	All	Logged when the coach is requested to make Rapid Self Healing inactive in that team. Data 1: Team Data1 Type: ushort
02B3	691	RSH is being started by player	DAT[MCU]	All	Logged when the coach has requested the team member to initiate the Rapid Self Healing process. Data1= Team Number, Data2= RSH Team. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02B4	692	RSH error - reported by player	DAT[MCU]	All	If the team member finds that Rapid Self Healing is unable to complete it will log this message. If there are other tie points that may be used for RSH it will try those, indicated by the Try Number. The result code may be one of: (if code location 0 or 2) 1= No Alternate Source, 2= Not Enough Capacity, 3= Switch Trouble, 4= Timer Unavailable, 5= Unable to Register Peer, 6= Comm List Full, 7= Bad Try Number, 8= Bad Netlist, 9= Not RSH Enabled. (if code location 1) 3=Problem while waiting for RSH, 4= Timeout while waiting for RSH. Data1= Team Number, Data2= Result Code, Data3= Try Number, Data4= Code Location. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02B5	693	RSH action requested by player	DAT[MCU]	All	The member's initial request to start Rapid Self Healing was successful. Data1= Team Number.

Definitions of Historic Events

					<p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02B6	694	RSH action successful	DAT[MCU]	All	<p>The team member has received an indication that Rapid Self Healing has been successful. Success code will be 2. Data1= Team Number, Data2= Success Code.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02B7	695	RSH action taking place	DAT[MCU]	All	<p>The team member has initiated a Rapid Self Healing operation and is waiting for a result. Data1= Team Number.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02B8	696	RSH init at startup	DAT[MCU]	All	<p>A peer device was unable to be registered with the DNP communication system. The return code can be: 1= Error, 2= Already On List, 3= List Full, 4= Not On List, 5= Not Peer-To-Peer Compatible, 6= Delay Before Retrying. Data1= Return Code,</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02B9	697	RSH timer was not available	DAT[MCU]	Normal	<p>Logged during startup if no timer is available for the Rapid Self Healing process.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02BA	698	RSH disabled or switch trouble	DAT[MCU]	All	<p>If the switch is in manual mode, or IntelliTEAM event processing has not yet been in the associated teams, this message will be logged and Rapid Self Healing will not be allowed.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02BB	699	RSH trouble registering DNP peer	DAT[MCU]	All	<p>A peer device was unable to be registered with the DNP communication system. The return code can be: 1= Error, 2= Already On List, 3= List Full, 4= Not On List, 5= Not Peer-to-Peer Compatible, 6= Delay Before Retrying. Data1= Return Code, Data2= Peer Address, Data4= Code Location.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02BC	700	RSH throw back operation	DAT[MCU]	All	<p>This indicates that the tie switch has completed its Rapid Self Healing operation and sending a response message back to the originating switch. The status can be: 6= Success, 7= Unable to Close Switch. Data1= Tie Switch Address, Data2= Originating Switch Address, Data3= RSH Status.</p>

					<p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02BD	701	RSH peer removed after complete	DAT[MCU]	All	<p>The reported switch address has been removed from the DNP peer communications peer association list. Data1= Switch address.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02BE	702	RSH trouble starting operation	DAT[MCU]	All	<p>Rapid Self Healing was unable to begin due to one of the following reasons: 1= No Alternate Source, 2= Not Enough Capacity, 3= Switch Trouble, 4= Timer Unavailable, 5= Unable to Register Peer, 6= Comm List Full, 7= Bad Try Number, 8= Bad Netlist, 9= Not RSH Enabled. Data1= Trouble Code.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02BF	703	RSH initiated	DAT[MCU]	All	<p>Logged at the originating team member when Rapid Self Healing has been initiated successfully. The message sent to the tie point includes the number of teams that will be restored, and the amount of load that will be restored, if the RSH action is executed at the tie switch. A response is then expected to find out whether the tie switch was able to close. Data1= Tie Switch Address, Data2= Tie Switch Position, Data3= Number of Teams, Data4= Load to Restore.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C0	704	RSH switch operation trouble	DAT[MCU]	All	<p>Logged if the tie switch location is unable to close the switch. The specific reason for this trouble is related to the code location: 1= Rapid Self Healing Inactive, 2= Request Team Invalid, 3+4= RSH Disabled on Team, 5+6= Team Errors Present, 7= Switch Is Not Open, 8= Voltage State Issue, 9= Team Is Faulted, 10= Too Many Teams to Restore, 11+12= Not Enough Capacity, 13= Coach Task List Full, 14= Grant Team Invalid. Contact S&C for further definitions of Data1, Data2, and Data3. Data4= Code Location.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C1	705	RSH switch op final status	DAT[MCU]	Normal	<p>Indicates the status of operating a switch based on Rapid Self Healing. Switch operation status includes: 1= Good Operation, 2= Bad Operation, 3= Operation Timed Out. The RSH process status can be: 4= Timeout, 6= Good Status, 7= Bad Status. Data1= Switch Operation Status, Data2= RSH Process Status, Data4= Code Location.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C2	706	RSH revd unexpected state	DAT[MCU]	All	<p>Logged if a Rapid Self Healing message is received that contains a state that conflicts with the present local RSH state. In general, if</p>

Definitions of Historic Events

		change			<p>RSH is idle then a request to close may be accepted, and if a request to close has been transmitted then only a result response message can be accepted. RSH states include: 1= Idce, 2= Waiting, 3= Error, 4= Timeout, 5= Close Switch, 6= Result Response, 7= Remove Peer, 8= Waiting, 9= Responding. Data1= Present RSH State, Data2= Received RSH State, Data3= Present RSH Status.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C3	707	Netlist initialization trouble	DAT[MCU]	Normal	<p>If a Netlist is unable to be imported into the Team database this message is logged to indicate the reason. Data1= Trouble Code (1= Present states of local switches do not match normal states, 2= IntelliTEAM may be in the process of reconfiguration, 3= Netlist data is invalid, such as no local teams, 4= Presently processing a new netlist, 5= Device is not configured with an RTU address).</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C4	708	Netlist accepted by IntelliTEAM	DAT[MCU]	Normal	<p>Indicates that a Netlist was successfully imported into the Team Database. The count of the number of teams included is also reported. Data1= Team Count.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C5	709	Netlist rejected by IntelliTEAM	DAT[MCU]	Normal	<p>During import into the team database the Netlist was rejected either due to this device not being included in the Netlist, or trouble with the data while unpacking the Netlist.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C6	710	RSH alt source search result	DAT[MCU]	Extended	<p>Logged when the Rapid Self Healing process searches for alternate sources during a reconfiguration process. The number of possible alternate sources Found is reported, along with the number Available for restoration after checking each alternate source for available capacity. Data1= Found, Data2= Available.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C7	711	Loading Agent Timer Unavailable	DAT[MCU]	Normal	<p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C8	712	Load Shedding Initiated	DAT[MCU]	Normal	<p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort</p>

					<p>Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02C9	713	Trouble Starting Load Shedding	DAT[MCU]	Normal	<p>A new coach has been generated at a team member of the specified team. This can occur during power-up, if existing coach is lost due to communication error, or existing coach data is inconsistent. Data1= Team.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02CA	714	Recvd Shed Rqst While in Process	DAT[MCU]	Extended	<p>Indicates that a request to shed load was received while a previous request is in process. Data1= State (1= Start, 2= Return Response, 3= Cleanup, 4= Remove Peer, 5= Back to Normal, 65535= Idle), Data2= Target.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02CB	715	Trouble During Shed Operation	DAT[MCU]	Extended	<p>Indication of trouble during shed operations is dependent on the Code Location. Code Location 1 indicates the target switch is not presently closed (Data1 indicates switch state). Code Location 2 indicates associated team numbers are inconsistent (Data1 and Data2 are actual team numbers, Data3 is the requested team number). Code Location 3 indicates that team errors may be present (Data1 and Data2 are associated team numbers). Code Location 6 indicates that the priority of the load to be shed is too high to shed (Data1 shows the configured load priority). Code Location 7 indicates that there was trouble returning a load shed response message (Data1 is the destination address). Data1, Data2, and Data3 see above. Data4= Code Location.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02CC	716	Load Agent Throwback Operation	DAT[MCU]	All	<p>A load shed response message was sent back to the requesting device. The destination address is included. Data1= Destination.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02CD	717	Load Agent Trouble Adding DNP Peer	DAT[MCU]	Extended	<p>This is logged when a destination device for a load shed message is unable to be added (code location 2) or removed (code location 1) from the DNP peer list Data1= Return Code (1= Error, 2= Already on list, 3= list full, 4= not on list) Data2= Destination, Data4= Code Location.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02CE	718	Load agent removed DNP peer	DAT[MCU]	All	<p>A destination peer device was successfully removed from the DNP peer list after a load shed operation was completed. This prevents the peer list from filling up over time. Data1= Destination.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort</p>

Definitions of Historic Events

					<p>Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02CF	719	Load agent remove restrictions	DAT[MCU]	Extended	<p>Indicates that a switch that was used to shed load can again be used as a source for that load. The restriction from closing has been removed.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D0	720	Load Shedding Switch Mode Status	DAT[MCU]	All	<p>This is logged to show whether the Switch Mode status indicates that the team member is being blocked from operations due to a load shed operation. Data1= Team Number, Data2= Member Number, Data3= State (1= Transition to On, 2= Transition to Off).</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D1	721	Overload monitoring started	DAT[MCU]	Normal	<p>Indicates beginning of load monitoring for the substation associated with this control since it is supplying sections that it normally does not supply. Data1= Source List Index in Net View.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D2	722	Overload monitoring stopped	DAT[MCU]	Normal	<p>Indicates that load monitoring is no longer required for this source, since it is no longer carrying non-normal sections. Data1= Source List Index in Net View, Data2= Source Capacity, Data3= Present Load.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D3	723	Qualified Overload is present	DAT[MCU]	All	<p>Indicates that an overload condition has been present for the specified length of time - this is the declaration we are not seeing a momentary transient. Data1= Source List Index in Netview, Data2= Source Capacity, Data3= Present Load.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D4	724	Overload Alarm Active	DAT[MCU]	Normal	<p>Alarm is active once an overload has been declared.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D5	725	Overload Alarm Removed	DAT[MCU]	Normal	<p>Overload Condition has cleared and/or the source is no longer carrying extra sections.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>

02D6	726	Load shed sequence started	DAT[MCU]	Extended	<p>Indicates that the time on alarm state limit has passed, and an attempt will be made for a section to be transferred or shed to attempt to alleviate the condition. Data1= Source List Index in Net View, Data2= Source Capacity, Data3= Present Load.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D7	727	Load shed request sent	DAT[MCU]	All	<p>Shed request was sent to the specified RTU address. Data1= Destination Switch RTU, Data2= Destination Switch Team Number, Data3= Load Request.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D8	728	Load shed request not sent	DAT[MCU]	All	<p>Problem with communications prevented sending a shed request to the specified RTU address. Data1= Destination Switch RTU, Data2= Destination Switch Team Number, Data3= Load Request.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02D9	729	Load shed request accepted	DAT[MCU]	All	<p>Target RTU address device accepted the request and will act on it.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02DA	730	Load shed request rejected	DAT[MCU]	All	<p>Target RTU address device rejected the request and will not act on it.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02DB	731	Add to shed reject list	DAT[MCU]	All	<p>Target RTU address will not be asked again during this overload occurrence. Data1= Destination RTU address Data2= Quantity in list.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02DC	732	Calculated alt source capacity	DAT[MCU]	All	<p>This message indicates the resources that are available on an alternate feeder as calculated during the RSH process. Data1= Return Code (0= Nodata, 1= Netlist update occurring, 2= Netlist good), Data2= Capacity, Data3= Segment Count, Data4= Netlist Team ID.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02DD	733	Close Error - Pulsing In-Op	DAT[MCU]	All	<p>Data 1:Debug Data Data1 Type: ushort</p>

Definitions of Historic Events

					Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02DE	734	I Team decided to open switch	DAT[MCU]	All	Indicates decision by IT to open a switch (for Instant Replay) Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02E0	736	Team Dropped for Load Shed	DAT[MCU]	Normal	The team has been deenergized to reduce substation loading and will not be restored until the circuit is back to normal. Data 1:Debug Data Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02E1	737	PR due to Load Shed Active	DAT[MCU]	Normal	Prohibit Restoration is active to prevent shed load from being restored from an alternate source. Data 1:Debug Data Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02E1	737	Switch 2 not in normal state active	DAT[MCU]	All	Switch 2 not in normal state active Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02E2	738	PR due to Load Shed InActive	DAT[MCU]	Normal	Prohibit Restoration is inactive to prevent shed load from being restored from an alternate source. Data 1:Debug Data Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02E2	738	Sw 2 not in normal state inactive	DAT[MCU]	All	Switch 2 not in normal state inactive Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02E3	739	Switch Open For Phase Isolation ON	DAT[MCU]	Normal	Switch Opened For Phase Isolation Active Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
02E4	740	Switch Open For Phase Isolation OFF	DAT[MCU]	Normal	Switch Opened For Phase Isolation NOT Active Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
02E5	741	Phase Loss Isolation Infrom Mode ON	DAT[MCU]	Normal	Phase Loss Isolation Inform Mode Active Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort

					Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
02E6	742	PLI Inform Mode OFF	DAT[MCU]	Normal	Phase Loss Isolation Inform Mode NOT Active Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
02E7	743	Phase Loss Timing Complete	DAT[MCU]	Normal	Phase Loss Timing Complete Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
02E8	744	Phase Loss Isolation Event Continue	DAT[MCU]	Normal	Phase Loss Isolation Event Continue Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
02E9	745	Sw1 Auto Manl Op. Clear Timer Started	DAT[MCU]	Normal	Sw1 Auto Manual Operation Clearing Timer Started Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
02EA	746	Xfer Declined Load Data	DAT[MCU]	Normal	Xfer Declined Load Data Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
02ED	749	Load Shed Alarm Active	DAT[MCU]	Normal	Alarm is active once arequirement to shed load been declared. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02EE	750	Sys Voltage Classification Diff Detected	DAT[MCU]	Normal	Alarm is active once arequirement to shed load been declared. Data 1:Debug Data Data1 Type: SystemVoltage Data 2:Debug Data Data2 Type: SystemVoltage Data 3:Debug Data Data3 Type: MoreThanOneDiffFound Data 4:Debug Data Data4 Type: ushort
02EF	751	Load Shed Alarm Removed	DAT[MCU]	Normal	No longer need to shed load - load is below the limit or back to normal for Feeder Configuration. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02F0	752	Return to Loop Timer Started	DAT[MCU]	Normal	The Return to Loop timer was started by the local team member of the specified team. Data 1: Team Data1 Type: Team Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort

Definitions of Historic Events

02F1	753	Return to Loop Continue OK	DAT[MCU]	Normal	<p>The internal Return to Loop process for the specified team indicated that Return to Loop may continue to the next step. The process result code is also shown.</p> <p>Data 1: Team Data1 Type: Team Data 2: Code Data2 Type: InternalCode Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02F4	756	OC Indication Requires Clearing	DAT[MCU]	Normal	<p>OC Indication Requires Clearing</p> <p>Data 1:Debug Data Data1 Type: TeamNumber Data 2:Debug Data Data2 Type: SWPos Data 3:Debug Data Data3 Type: TransferState Data 4:Debug Data Data4 Type: ushort</p>
02F7	759	Average Loading Stopped	DAT[MCU]	Normal	<p>Average Loading Stopped</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02F8	760	Average Loading Restored	DAT[MCU]	Normal	<p>Average Loading Restored</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02F9	761	Calculated Real Capacity	DAT[MCU]	Normal	<p>Calculated Real Capacity</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02FA	762	Not All Teams Xfer Rdy Timer Active	DAT[MCU]	Normal	<p>Not All Teams Xfer Rdy Timer Active</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02FB	763	Not All Teams Xfer Rdy Timer Cleared	DAT[MCU]	Normal	<p>Not All Teams Xfer Rdy Timer Cleared</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02FC	764	Start Sending Transfer Trip	DAT[MCU]	Normal	<p>Start Sending Transfer Trip</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02FD	765	Transfer Trip Sending Rejected by RTL	DAT[MCU]	Normal	<p>Transfer Trip Sending Rejected by RTL</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
02FE	766	Transfer Trip Sent Successfully	DAT[MCU]	Normal	<p>Transfer Trip Sent Successfully</p> <p>Data 1:Debug Data Data1 Type: ushort</p>

Definitions of Historic Events

					Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
02FF	767	Transfer Trip Sent Unsuccessfully	DAT[MCU]	Normal	Transfer Trip Sent Unsuccessfully Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0300	768	Compact Flash Operational Issue	LOG[MCU]	All	Data 1:Error Code Data1 Type: ushort
0301	769	Logging Overflow (last events)	LOG[MCU]	All	Data 1: Event ID Data1 Type: ushort Data 2: Event ID Data2 Type: ushort Data 3: Event ID Data3 Type: ushort Data 4: Event ID Data4 Type: ushort
0302	770	LOG DNP Irregularity	LOG[MCU]	All	Data 1:Trace Info Data1 Type: ushort Data 2:Error Code Data2 Type: ushort
0305	773	High Volume Event Storage to CF	LOG[MCU]	All	The task that writes the compact flash file has been rescheduled to run immediately because the event log input buffer is full.
0307	775	Invalid Log Request	LOG[MCU]	All	Data 1:Trace Info Data1 Type: ushort
0308	776	Diag. Data Definition Error	LOG[MCU]	Normal	Data 1: Diagnostic Data Type (Alarm or Warning or Error) Data1 Type: LOGDiagType Data 2:On-Event handle Data2 Type: ushort Data 3:Off-Event handle Data3 Type: ushort Data 4:Trace Info Data4 Type: ushort
0309	777	Diag. Data Processing Error	LOG[MCU]	Normal	Data 1: Diagnostic Data Type (Alarm or Warning or Error) Data1 Type: LOGDiagType Data 2:Debug Data2 Type: ushort Data 3:Debug Data3 Type: ushort Data 4:Trace Info Data4 Type: ushort
030A	778	Alarm Condition is ON	LOG[MCU]	Normal	
030B	779	Alarm Condition is OFF	LOG[MCU]	Normal	
030C	780	Warning Condition is ON	LOG[MCU]	Normal	
030D	781	Warning Condition is OFF	LOG[MCU]	Normal	
0310	784	Next Averaging Period	LOG[MCU]	All	Data 1:Period Number Data1 Type: ushort
0311	785	Averaging Data CF Write	LOG[MCU]	All	Data 1:File Cycle Number Data1 Type: ushort
0312	786	Next Daily High/Low Period	LOG[MCU]	All	

Definitions of Historic Events

					Data 1:Period Number Data1 Type: ushort
0313	787	Daily High/Low CF Write	LOG[MCU]	All	Data 1:File Cycle Number Data1 Type: ushort
0314	788	Shutdown Processing LOG	LOG[MCU]	Normal	Data 1:Trace Info Data1 Type: ushort
0315	789	Communication Proc Startup	EVT[MCU]	Normal	
0316	790	Spec. Evt Counters Cleared	LOG[MCU]	Normal	
0317	791	Status Counters Cleared	LOG[MCU]	Normal	
0318	792	Log Flooding Condition ON	LOG[MCU]	Normal	One or more events have stopped being recorded because they were flooding the log. Data 1:event ID Data1 Type: ushort
0319	793	Log Flooding Condition OFF	LOG[MCU]	Normal	No events have stopped being recorded because they were flooding the log.
0320	800	CF Query Action	LOG[MCU]	All	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
0321	801	CF Query Received	LOG[MCU]	All	Data 1: Client-generated query code Data1 Type: ushort
0322	802	CF Query Frame Furnished	LOG[MCU]	All	Data 1: Next Frame Sequence Number Data1 Type: ushort Data 2: Position in CF read buffer Data2 Type: ushort Data 3: Number of events in this frame Data3 Type: ushort
0333	819	CF Query New Frame Rqst	LOG[MCU]	All	Data 1: Frame Sequence Number Data1 Type: ushort
0334	820	CF Query: Last Frame Furnished	LOG[MCU]	All	Data 1: Next Frame Sequence Number Data1 Type: ushort Data 2: Position in CF read buffer Data2 Type: ushort Data 3: Number of events in this frame Data3 Type: ushort
0335	821	CF Query Abort Request	LOG[MCU]	All	Data 1: Frame Sequence Number Data1 Type: ushort
0336	822	CF Query Has Timed Out	LOG[MCU]	All	
0337	823	CF Query Disk Issue	LOG[MCU]	All	Data 1: Issue Code Data1 Type: ushort Data 2: Data2 Type: ushort
0400	1024	Digital IO Initialized	BMS[MCU]	Normal	
0401	1025	BMS:AC Power Present	BMS[MCU]	All	Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort

					Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0402	1026	BMS:AC Power Not Present	BMS[MCU]	Normal	Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0403	1027	Battery Temperature Problem	BMS[MCU]	Normal	Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0404	1028	Battery Temperature Normal	BMS[MCU]	Normal	Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0405	1029	Battery Voltage Low	BMS[MCU]	Normal	The Battery Voltage is Low. Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0406	1030	Battery Voltage Normal	BMS[MCU]	Normal	The Battery Voltage is Normal. Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0407	1031	Battery Needs to Be Replaced	BMS[MCU]	Normal	The Battery is Bad. Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0408	1032	Battery OK	BMS[MCU]	Normal	The Battery is not Bad. Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0409	1033	Battery Charger Normal	BMS[MCU]	Normal	Battery Charger Normal. Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
040A	1034	Battery Charger Overvoltage	BMS[MCU]	Normal	Battery Charger Overvoltage. Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
040B	1035	Battery Impedance Normal	BMS[MCU]	Normal	Battery Impedance Normal. Data 1:Temperature Data1 Type: short

Definitions of Historic Events

					Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
040C	1036	Battery Impedance Low	BMS[MCU]	Normal	Battery Impedance Low. Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
040D	1037	Start Battery Test	BMS[MCU]	Normal	Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
040E	1038	Battery Test Finished	BMS[MCU]	Normal	Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
040F	1039	Hardware Fault Occured	BMS[MCU]	Normal	Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0410	1040	Hardware Fault Resolved	BMS[MCU]	Normal	Data 1:Temperature Data1 Type: short Data 2:Battery Voltage Data2 Type: ushort Data 3:Impedance Data3 Type: ushort Data 4:Surface Voltage Data4 Type: ushort
0411	1041	Power Up	EVT[MCU]	Normal	Data 1:Output IO Data1 Type: ushort
0412	1042	Power Up Clear	BMS[MCU]	Normal	Data 1:Output IO Data1 Type: ushort
0413	1043	BMS:Battery Disconnect	BMS[MCU]	Normal	
0414	1044	BMS: Battery Connected	BMS[MCU]	Normal	
0415	1045	App Board Calibration Data Okay	BMS[MCU]	Normal	Application Board Calibration Data Okay. Data 1:App Calculated CRC Data1 Type: ushort Data 2:App Saved CRC Data2 Type: ushort
0416	1046	App. Board Calibration Data Invalid	BMS[MCU]	Normal	Application Board Calibration Data Invalid. Data 1:App Calculated CRC Data1 Type: ushort Data 2:App Saved CRC Data2 Type: ushort
0417	1047	CCP Board Calibration Data Okay	BMS[MCU]	Normal	CCP Board Calibration Data Okay. Data 1:CCP Calculated CRC Data1 Type: ushort Data 2:CCP Saved CRC Data2 Type: ushort
0418	1048	CCP Board Calibration Data Invalid	BMS[MCU]	Normal	CCP Board Calibration Data Invalid.

					Data 1:CCP Calculated CRC Data1 Type: ushort Data 2:CCP Saved CRC Data2 Type: ushort
0419	1049	Set Battery Disconnect	BMS[MCU]	Normal	Set Battery Disconnect.
041A	1050	Set Battery Connect	BMS[MCU]	Normal	Set Battery Connect.
041B	1051	Set Charger On	BMS[MCU]	All	Set Charger On.
041C	1052	Set Charger Off	BMS[MCU]	All	Set Charger Off.
041D	1053	Set Small Load Test On	BMS[MCU]	All	Set Small Load Test On.
041E	1054	Set Small Load Test Off	BMS[MCU]	All	Set Small Load Test Off.
041F	1055	Set Big Load Test On	BMS[MCU]	All	Set Big Load Test On.
0420	1056	Set Big Load Test Off	BMS[MCU]	All	Set Big Load Test Off.
0421	1057	Internal Temperature Sensor Faulted	BMS[MCU]	All	Internal Temperature Sensor Faulted. Data 1: Data1 Type: IntTempSensor
0422	1058	Internal Temp. Sensor Fault Cleared	BMS[MCU]	All	Internal Temperature Sensor Fault Cleared. Data 1: Data1 Type: IntTempSensor
0500	1280	User Configuration Backed Up to BMM	SUM[MCU]	Normal	User configurable settings successfully stored to the base memory.
0501	1281	BMM Setting Restore UnSuccess	SUM[MCU]	Normal	An issue was encountered restoring user settings from the base memory. The settings were not restored. Data 1:SUM Error Code Data1 Type: ushort Data 2:Called Function Return Data2 Type: ushort Data 3:Step Data3 Type: ushort
0502	1282	User Config Restored From BMM	SUM[MCU]	Normal	User configurable settings successfully restored from the base memory.
0503	1283	BMM Backup Config Unsuccessful	SUM[MCU]	Normal	An issue was encountered storing user settings to the base memory. The settings were not successfully stored. Data 1:SUM Error Code Data1 Type: ushort Data 2:Called Function Return Data2 Type: ushort Data 3:Step Data3 Type: ushort
0504	1284	User Configuration Backed Up to CF	SUM[MCU]	Normal	User configurable settings successfully stored to a compact flash file.
0505	1285	CF Backup Settings Save Unsuccess	SUM[MCU]	Normal	An issue was encountered storing user settings to a compact flash file. The settings were not successfully stored. Data 1:SUM Error Code Data1 Type: ushort Data 2:Called Function Return Data2 Type: ushort Data 3:Step Data3 Type: ushort
0506	1286	User Configuration Restored to CF	SUM[MCU]	Normal	User configurable settings successfully restored from the a compact flash file.
0507	1287	CF Restore Settings UnSuccess	SUM[MCU]	Normal	An issue was encountered restoring user settings from a compact flash file. The settings were not restored. Data 1:SUM Error Code Data1 Type: ushort Data 2:Called Function Return Data2 Type: ushort Data 3:Step Data3 Type: ushort
0508	1288	Validate Settings Successful	SUM[MCU]	Normal	The settings are valid.

Definitions of Historic Events

0509	1289	Settings Validation UnSuccess	SUM[MCU]	Normal	An issue was encountered during a setting validation attempt. The settings are not valid and cannot be applied. Data 1: Settings Group Data1 Type: ushort Data 2: Instance Data2 Type: ushort Data 3: Error Data3 Type: ushort
050A	1290	Applied Settings Successfully	EVT[MCU]	Normal	The settings were applied and are active in the control.
050B	1291	Settings Application UnSuccess	EVT[MCU]	Normal	An issue was encountered while trying to apply settings to the control. All settings were not successfully applied. This most commonly occurs when settings are transferred from the MCU to the DSP. Data 1:Error Code Data1 Type: ushort
050C	1292	Refresh Settings Buffer Success	SUM[MCU]	Normal	The settings buffer has been refreshed with the active settings.
050D	1293	Refresh Settings Buffer Issue	SUM[MCU]	Normal	An issue was encountered while attempting to refresh the settings buffer. Values on the settings screens may not accurately reflect the active settings in the control. Data 1:Error Code Data1 Type: ushort
050E	1294	Register Settings Block Issue	SUM[MCU]	Normal	An issue was encountered during application initialization that prevented a group of settings from being successfully registered with the setup manager. Data 1:Error Code Data1 Type: ushort
050F	1295	Register Callback Issue	SUM[MCU]	Normal	An issue was encountered during application initialization that prevented settings related functions from a subsystem from being successfully registered with the setup manager. Data 1:Error Code Data1 Type: ushort
0510	1296	SUM Reg DNP Special Func. Warning	SUM[MCU]	Normal	An issue was encountered during application initialization that will prevent the functionality of one or more DNP commands. Data 1:DNP Error Code Data1 Type: ushort Data 2:Instance Data2 Type: ushort
0511	1297	Register Non-Settings Block Issue	SUM[MCU]	Normal	An issue was encountered during application initialization that prevented a group of non-settings from being successfully registered with the setup manager for access rights checking. Data 1:Error Code Data1 Type: ushort
0512	1298	User Login Access Denied	SUM[MCU]	Normal	Access to Login was denied. Data 1: Access Denied Reason Data1 Type: AccessDeniedReason
0513	1299	User Logout Access Denied	SUM[MCU]	Normal	Access to Logout was denied. Data 1: Access Denied Reason Data1 Type: AccessDeniedReason
0514	1300	BMM Not Ready	SUM[MCU]	Normal	The base memory module cannot be accessed. Data 1:BMM State Data1 Type: ushort
0515	1301	User Session Started	EVT[MCU]	Normal	A user session was started. Data 1: User Id Data1 Type: ushort Data 2: Port Number Data2 Type: PortCode
0516	1302	User Session Ended	EVT[MCU]	Normal	A user session was terminated. Data 1: User Id Data1 Type: ushort Data 2: Session Ended Reason Data2 Type:

					SUMSessionEndReason Data 3: Port Number Data3 Type: PortCode
0517	1303	User Access Denied	SUM[MCU]	Normal	Access to write a VM location was denied. Data 1: Access Denied Reason Data1 Type: AccessDeniedReason Data 2:Optional Data Depending on Reason Data2 Type: ushort
0518	1304	Register Command to Block Issue	SUM[MCU]	Normal	An issue was encountered during application initialization that prevented a command from being successfully registered with the setup manager to block based on source (IntelliLink WiFi or IntelliLink Remote). Data 1:Error Code Data1 Type: ushort
0519	1305	Request Backup Received	SUM[MCU]	Normal	The Setup Manager received a request from another subsystem to do a backup of settings.
051A	1306	Settings Backup Success	SUM[MCU]	Normal	User configurable settings successfully stored to the base memory.
051B	1307	Settings Restore Unsuccessful	SUM[MCU]	Normal	An issue was encountered restoring user settings from the base memory. The settings were not restored. Data 1:SUM Error Code Data1 Type: ushort Data 2:Called Function Return Data2 Type: ushort Data 3:Step Data3 Type: ushort
051C	1308	Settings Restore Success Alarm	SUM[MCU]	Normal	User configurable settings successfully restored from the base memory.
051D	1309	Settings Backup Unsuccessful	SUM[MCU]	Normal	An issue was encountered storing user settings to the base memory. The settings were not successfully stored. Data 1:SUM Error Code Data1 Type: ushort Data 2:Called Function Return Data2 Type: ushort Data 3:Step Data3 Type: ushort
051E	1310	Settings Mismatch Warning Off	SUM[MCU]	Normal	User configurable settings have been applied.
051F	1311	Settings Mismatch Warning On	SUM[MCU]	Normal	User configurable settings in the base memory are not of a compatible version with the firmware in the control so cannot be restored. Data 1:SUM Error Code Data1 Type: ushort Data 2:Called Function Return Data2 Type: ushort Data 3:Step Data3 Type: ushort
0520	1312	Apply Settings Started	SUM[MCU]	Normal	Apply of user configurable settings has started.
0521	1313	Password Setting Changed	SUM[MCU]	Normal	A user group password settings change was applied. Data 1: GroupId Data1 Type: ushort
0522	1314	IntelliLink Intrusion On	SUM[MCU]	Normal	User attempted three unsuccessful logons.
0523	1315	IntelliLink Intrusion Off	SUM[MCU]	Normal	Alarm re user attempting three unsuccessful logons was cleared
0524	1316	IntelliLink Intrusion Attempt	SUM[MCU]	Normal	User attempted unsuccessful logon
0600	1536	Unsuccessful Settings to Prot Proc	DPX[MCU]	Normal	An issue was encountered in moving settings across the Dual Ported RAM to the DSP that prevented some or all settings from being successfully transferred. Data 1:EOS Return Code Data1 Type: ushort Data 2:Write Group Data2 Type: ushort

Definitions of Historic Events

					Data 3:Optional - Instance Data3 Type: ushort Data 4:Optional - Instance Group/Instance 2 Data4 Type: ushort
0601	1537	Settings Validated Successfully	DPX[MCU]	Normal	Settings Are Valid.
0602	1538	Settings Validation Unsuccessful	DPX[MCU]	Normal	An issue was encountered in validating settings. The settings are not valid and cannot be applied. Data 1: Settings Group Data1 Type: ushort Data 2: Instance Data2 Type: ushort Data 3: Error Data3 Type: ushort
0603	1539	DPX Reg DNP Special Func. Warning	DPX[MCU]	Normal	An issue was encountered during application initialization that will prevent the functionality of one or more DNP commands. Data 1:DNP Error Code Data1 Type: ushort Data 2:Instance Data2 Type: ushort
0604	1540	Replacement Profile UnSuccess	DPX[MCU]	Normal	An issue was encountered in replacing a profile from the DSP scratchpad that prevented some or all settings from being successfully applied. Data 1:Error Code or ATX State Data1 Type: ushort Data 2:Error Type Data2 Type: ushort Data 3:Instance Data3 Type: ushort Data 4:Instance2 Data4 Type: ushort
0605	1541	Replace Active Profile Cmd Received	DPX[MCU]	Normal	A command to replace the active profile was received. Data 1:New Active Profile Data1 Type: ushort Data 2:Previous Active Profile Data2 Type: ushort
0606	1542	Replace Active Prof Cmd Success	DPX[MCU]	Normal	The command to replace the active profile successful. Data 1:Retry Count Data1 Type: ushort
0607	1543	Replace Active Prof Cmd Unsuccess	DPX[MCU]	Normal	The command to replace the active profile was unsuccessful. Data 1:Retry Count Data1 Type: ushort
0608	1544	Lookup Table Generation Unsuccess	DPX[MCU]	Normal	The command to replace the active profile was unsuccessful. Data 1: Profile Generation Code Data1 Type: LookupTblGenCode Data 2: Curve Data2 Type: ushort Data 3: Profile Data3 Type: MCUProfile
0609	1545	ROCOF Tuning Parameters	DPX[MCU]	Normal	ROCOF Tuning Parameters Data 1: Upper Kp Gain Data1 Type: ushort Data 2: Lower Kp Gain Data2 Type: ushort Data 3: Upper Ki Gain Data3 Type: ushort Data 4: Lower Ki Gain Data4 Type: ushort
0700	1792	Incorrect DPR Event Information	DPR[MCU]	Normal	
0701	1793	Prot Presr No Response to Externals	DPR[MCU]	Normal	The DSP is not responding.
0702	1794	DPR Command Queue is Full	DPR[MCU]	Normal	
0703	1795	Invalid Argument For Externals	DPR[MCU]	Normal	Data 1: Data1 Type: Argument_1 Data 2: Data2 Type: Argument_2

0704	1796	Profile Number is Invalid	DPR[MCU]	Normal	
0705	1797	Invalid Command Handler	DPR[MCU]	Normal	
0706	1798	Prot Prcsr Responding to Externals	DPR[MCU]	Normal	The DSP is responding.
0707	1799	Clear DPR Commands and Restart	DPR[MCU]	Normal	Data 1: Data1 Type: CommandsFlush
0708	1800	WFC Transfer to CF Success	EVT[MCU]	Normal	Data 1: Data1 Type: CycleNumber Data 2: Data2 Type: SecondaryEvent Data 3: Data3 Type: NumberFrames
0709	1801	WFC Save to CF Unsuccessful	DPR[MCU]	All	Data 1: Data1 Type: ErrorCode Data 2: Data2 Type: EOSErrorCode
070A	1802	Ext WFC Transfer to CF Started	DPR[MCU]	Normal	Data 1: Data1 Type: CycleNumber
070B	1803	Ext WFC Transfer to CF Success	DPR[MCU]	Normal	Data 1: Data1 Type: CycleNumber Data 3: Data3 Type: NumberFrames
070C	1804	Ext WFC Save to CF UnSuccessfl	DPR[MCU]	All	Data 1: Data1 Type: CycleNumber Data 3: Data3 Type: NumberFrames
070D	1805	Special WFC Xfer to CF Success	DPR[MCU]	Normal	Data 1: Data1 Type: CycleNumber Data 3: Data3 Type: NumberFrames
070E	1806	Special WFC Save to CF Unsuccess	DPR[MCU]	All	Data 1: Data1 Type: CycleNumber Data 3: Data3 Type: NumberFrames
070F	1807	PNG Transfer to CF Success	DPR[MCU]	Normal	Data 1: Data1 Type: CurrentCycle Data 3: Data3 Type: NumberFrames
0710	1808	PNG Data Save to CF UnSuccessfl	DPR[MCU]	All	Data 1: Data1 Type: CurrentCycle Data 3: Data3 Type: NumberFrames
0711	1809	Compact Flash Memory is Not Mounted	DPR[MCU]	Normal	
0712	1810	Ext WFC Transfer to CF Finished	DPR[MCU]	Normal	Data 1: Data1 Type: CurrentCycle Data 3: Data3 Type: NumberFrames
0713	1811	PNG Transfer to CF Started	DPR[MCU]	Normal	Data 1: Data1 Type: CurrentCycle

Definitions of Historic Events

0714	1812	PNG Transfer to CF Finished	DPR[MCU]	Normal	Data 1: Data1 Type: CurrentCycle Data 3: Data3 Type: NumberFrames
0715	1813	CF Issue (Use Next Operation)	DPR[MCU]	All	Data 1: Data1 Type: ErrorCode Data 2: Data2 Type: EOSErrorCode
0716	1814	Prot Proc Synch Error	DPR[MCU]	Normal	
0717	1815	Transfer Op Records to CF succeeded	DPR[MCU]	Normal	Data 1: Data1 Type: CycleNumber Data 2: Data2 Type: DetailSummary Data 3: Data3 Type: NumberFrames Data 4: Data4 Type: OperationRecord
0718	1816	Xfer Operation Records to CF error	DPR[MCU]	Normal	Data 1: Data1 Type: CycleNumber Data 2: Data2 Type: DetailSummary Data 3: Data3 Type: NumberFrames
0719	1817	Coordinating Signal Sent	DPR[MCU]	Normal	Data 1: Dest RTU Data1 Type: ushort Data 2: Count Data2 Type: ushort
071A	1818	Coordinating Signal Received	DPR[MCU]	Normal	Data 1: Rec Buffer Data1 Type: ushort Data 2: Shift Data2 Type: CECUrgentShift Data 3: Source RTU Data3 Type: ushort Data 4: Port Data4 Type: ushort
071B	1819	Keep Active or Reset Signal Sent	DPR[MCU]	Normal	Data 1: Dest RTU Data1 Type: ushort Data 2: Command Data2 Type: CECCCommand
071C	1820	Keep Active or Reset Signal Rcvd	DPR[MCU]	Normal	Data 1: Command Data1 Type: CECCCommand Data 2: Shift Data2 Type: CECShift Data 3: Source RTU Data3 Type: ushort Data 4: Port Data4 Type: ushort
071D	1821	CEC Not Ready to Send	DPR[MCU]	Normal	
071E	1822	No CEC Enabled Device Upstream	DPR[MCU]	Normal	
071F	1823	CEC Ready On	DPR[MCU]	Normal	
0720	1824	CEC Ready Off	DPR[MCU]	Normal	Data 4: Step Data4 Type: ushort
0721	1825	CEC DNP Register Peer Issue	DPR[MCU]	Normal	Data 1: RTU Data1 Type: ushort Data 2: DNP Return Code Data2 Type: ushort Data 4: Step Data4 Type: ushort
0800	2048	DNP Initialization Complete	DNP[MCU]	Normal	Displayed when initialization of DNP processes has completed without error.

					<p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0801	2049	Route Table Initialization Error	DNP[MCU]	Normal	<p>The routing table was unable to be initialized, preventing initialization of DNP processes from being completed.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0802	2050	Point Map Initialization Error	DNP[MCU]	Normal	<p>The point mapping table was unable to be initialized, preventing initialization of DNP processes from being completed.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0803	2051	Error in Configuration Data	DNP[MCU]	Normal	<p>A configuration setup parameter was found to be set incorrectly or out of range.</p> <p>Data 1: Setup Value Data1 Type: ushort Data 2: Min Value Data2 Type: ushort Data 3: Max Value Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0804	2052	Old Configuration Remains in Effect	DNP[MCU]	Normal	<p>Indicates that due to an error in configuration data the existing setup will continue to be used by the application.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0805	2053	Configuration Change Accepted	DNP[MCU]	Normal	<p>Changes to the communications setup parameters were validated and have been made active within the application.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0806	2054	Master Record Not Added	DNP[MCU]	Normal	<p>The master record was unable to be added to the peer device list due to either an incorrect parameter or the peer device list is full.</p> <p>Data 1: Master Record Add Error Data1 Type: MasterRecAddError Data 2: Code Location Data2 Type: ushort Data 3:Master Number Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0807	2055	Map Change Callback Init Error	DNP[MCU]	Normal	<p>A DNP point map change callback function was unable to be registered due to a full callback list. This prevented initialization of DNP processes from being completed.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0808	2056	Incorrect Frame Length	DNP[MCU]	Extended	<p>The actual length of the received DNP frame does not match the length indicated in the DNP data link header. The frame is discarded.</p>

Definitions of Historic Events

					<p>Data 1: Actual Length Data1 Type: ushort Data 2: Indicated Length Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Code Location Data4 Type: ushort</p>
0809	2057	Serial Port Reset Error	DNP[MCU]	Normal	<p>An error occurred in reset of a serial port during a communications setpoint configuration change. Changes to serial port configuration may not have taken affect.</p> <p>Data 1: Port Number Data1 Type: PortCode Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
080A	2058	P2P Receive buffer full	DNP[MCU]	Normal	
080B	2059	P2P Frag received from transport	DNP[MCU]	All	<p>Data 1: Peer Address Data1 Type: ushort Data 2: Fragment Length Data2 Type: ushort Data 3: Port ID Data3 Type: ushort Data 4: Fragment ID Data4 Type: ushort</p>
080C	2060	Error Registering Special Function	DNP[MCU]	Normal	
080D	2061	P2P Notification received	DNP[MCU]	All	<p>Data 1: Source Address / ID Data1 Type: ushort Data 2: Destination Address /Code Data2 Type: ushort Data 3: Sequence Number / Layer Data3 Type: ushort Data 4: Connection ID/0 Data4 Type: ushort</p>
080E	2062	TCP Port Maintenance	DNP[MCU]	Extended	<p>The actual length of the received DNP frame does not match the length indicated in the DNP data link header. The frame is discarded.</p> <p>Data 1: TCP Port Connect State Data1 Type: TCPPortConnectState Data 2: TCP Port Active State Data2 Type: TCPPortActiveState Data 3: Destination RTU Address Data3 Type: RTUAddress Data 4: Diagnostic Value Data4 Type: ushort</p>
0820	2080	Invalid Transport Segment Length	DNP[MCU]	Extended	<p>The transport segment length of the DNP frame is invalid. The frame was discarded. The valid range is from 3 to 250.</p> <p>Data 1: Segment Length Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0821	2081	Receive Message Buffer Full	DNP[MCU]	Extended	<p>The transport function receive message buffers are full. These buffers hold the frame header information and other message details. The new frame is discarded.</p> <p>Data 1: Debug Data Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
0822	2082	Receive Data Buffer Full	DNP[MCU]	Extended	<p>The transport function receive data buffers are full. These buffers hold the data portion of the received DNP frames. The new frame is discarded.</p> <p>Data 1: Debug Data Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort</p>

					<p>Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0823	2083	Removed Old FIR-Only Message	DNP[MCU]	All	<p>An incomplete fragment was discarded due to a newer message being received from the same source device.</p> <p>Data 1: Transport Header Data1 Type: DNPTransportHeader Data 2:Debug Data Data2 Type: ushort Data 3: Source Address Data3 Type: RTUAddress Data 4:Debug Data Data4 Type: ushort</p>
0824	2084	App Layer Accepted FIR/FIN Message	DNP[MCU]	All	<p>A single-frame fragment was successfully processed by the application layer and is being removed from the transport function buffers.</p> <p>Data 1: Transport Header Data1 Type: DNPTransportHeader Data 2: Fragment Length Data2 Type: ushort Data 3: Source Address Data3 Type: RTUAddress Data 4:Debug Data Data4 Type: ushort</p>
0825	2085	App Layer Accepted FIN Only Message	DNP[MCU]	All	<p>A multi-frame fragment was successfully processed by the application layer and is being removed from the transport function buffers.</p> <p>Data 1: Transport Header Data1 Type: DNPTransportHeader Data 2: Fragment Length Data2 Type: ushort Data 3: Source Address Data3 Type: RTUAddress Data 4:Debug Data Data4 Type: ushort</p>
0826	2086	Frame Addition Unsuccessful	DNP[MCU]	Extended	<p>A newly received frame of a multi-frame fragment was unable to be added to the fragment due to the 2k fragment size restriction. The fragment was discarded.</p> <p>Data 1: Transport Header of Fragment Data1 Type: DNPTransportHeader Data 2: Transport Header of Frame Data2 Type: DNPTransportHeader Data 3: Source Address Data3 Type: RTUAddress Data 4:Debug Data Data4 Type: ushort</p>
0827	2087	Fragment Not Found	DNP[MCU]	Extended	<p>A matching fragment was not found in the buffers for a newly received frame of a multi-frame fragment. The frame was discarded.</p> <p>Data 1: Transport Header Data1 Type: DNPTransportHeader Data 2:Debug Data Data2 Type: ushort Data 3: Source Address Data3 Type: RTUAddress Data 4:Debug Data Data4 Type: ushort</p>
0828	2088	Transp. Layer Xmit Frag Too Long	DNP[MCU]	Extended	<p>The application layer was requested to send a fragment larger than the 2k size limitation.</p> <p>Data 1: Fragment Length Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0829	2089	Transp. Layer TX Fragment Buf Full	DNP[MCU]	Extended	<p>No free buffer was found in the transport function transmit buffers. The application layer may save this message and reattempt to transmit.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>

Definitions of Historic Events

082A	2090	Frame Accepted by Data Link Layer	DNP[MCU]	All	<p>A single frame was successfully handed off to the data link layer for transmit. Note that this may be a single frame of a multi-frame fragment.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: Destination Address <i>Data2 Type:</i> RTUAddress Data 3: Transport Header <i>Data3 Type:</i> DNPTransportHeader Data 4: Frame Length <i>Data4 Type:</i> ushort</p>
082B	2091	Message Timed Out on Receive List	DNP[MCU]	Extended	<p>A fragment was removed from the transport function receive buffer after an extended period of inactivity.</p> <p>Data 1: Transport Header <i>Data1 Type:</i> DNPTransportHeader Data 2: Debug Data <i>Data2 Type:</i> ushort Data 3: Source Address <i>Data3 Type:</i> RTUAddress Data 4: Debug Data <i>Data4 Type:</i> ushort</p>
082C	2092	Message Timed Out on Transmit List	DNP[MCU]	Extended	<p>A fragment was removed from the transport function transmit buffer after an extended period of inactivity.</p> <p>Data 1: Transport Header <i>Data1 Type:</i> DNPTransportHeader Data 2: Debug Data <i>Data2 Type:</i> ushort Data 3: Source Address <i>Data3 Type:</i> RTUAddress Data 4: Debug Data <i>Data4 Type:</i> ushort</p>
082D	2093	Removed Deferred Read Request	DNP[MCU]	Extended	<p>A DNP read request that was deferred due to an outstanding unsolicited message was removed due to reception of a newer request.</p> <p>Data 1: Debug Data <i>Data1 Type:</i> ushort Data 2: Debug Data <i>Data2 Type:</i> ushort Data 3: Debug Data <i>Data3 Type:</i> ushort Data 4: Debug Data <i>Data4 Type:</i> ushort</p>
082E	2094	Frame Declined by Datalink	DNP[MCU]	Extended	<p>The datalink layer was unable to accept the request to transmit this frame. The frame transmit will be retried until it is accepted or the message times out on the transmit list.</p> <p>Data 1: Error code returned by OS <i>Data1 Type:</i> ushort Data 2: Destination Address <i>Data2 Type:</i> RTUAddress Data 3: Transport Header <i>Data3 Type:</i> DNPTransportHeader Data 4: Frame Length <i>Data4 Type:</i> ushort</p>
082F	2095	Port Undefined in Transport	DNP[MCU]	All	<p>Data 1: Destination Addrss <i>Data1 Type:</i> ushort</p>
0840	2112	Reset Peer Link Sent	DNP[MCU]	Extended	<p>A Reset data link frame was sent to a peer device in an attempt to reinitialize peer-to-peer communications.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: Destination Address <i>Data2 Type:</i> RTUAddress Data 3: Debug Data <i>Data3 Type:</i> ushort Data 4: Debug Data <i>Data4 Type:</i> ushort</p>
0841	2113	Reset Peer Link Received	DNP[MCU]	Extended	<p>A Reset data link frame was received from the reported peer device.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: Action Taken 1=record reinit 2=reset seq num only 3=new peer added <i>Data2 Type:</i> DNPDLAction Data 3: Debug Data <i>Data3 Type:</i> ushort Data 4: Debug Data <i>Data4 Type:</i> ushort</p>
0842	2114	Msg Taken Off Xmit List - No Peer	DNP[MCU]	Extended	<p>The destination peer device was not found in the peer list, possibly due to a change in configuration. The message was discarded.</p>

					<p>Data 1: Source Address Data1 Type: RTUAddress Data 2: Destination Address Data2 Type: RTUAddress Data 3: Application Control Data3 Type: DNPAAppControl Data 4: Function Code Data4 Type: DNPAAppFunctionCode</p>
0843	2115	Set URBE Timer Error	DNP[MCU]	Extended	<p>An error was detected when attempting to start an internal timer.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0844	2116	No URBE Delay Timer	DNP[MCU]	Extended	<p>No free timer was found when attempting to start an internal timer.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0845	2117	Duplicate Fragment Received	DNP[MCU]	Extended	<p>The application layer detected reception of a duplicate fragment. The previous response will be resent.</p> <p>Data 1: Source Address Data1 Type: RTUAddress Data 2: Destination Address Data2 Type: RTUAddress Data 3: Application Control Data3 Type: DNPAAppControl Data 4:Debug Data Data4 Type: ushort</p>
0846	2118	App. Layer Transmit Frag Too Long	DNP[MCU]	Extended	<p>The application layer was requested to send a fragment larger than the 2k size limitation.</p> <p>Data 1: Fragment Length Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0847	2119	App. Layer TX Fragment Buffer Full	DNP[MCU]	Extended	<p>No free buffer was found in the application layer transmit list. The fragment may be retried or discarded.</p> <p>Data 1: Code Location Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0848	2120	Invalid Fragment Length Received	DNP[MCU]	Extended	<p>The application layer detected a fragment with an invalid length. The valid rand is from 2 to 2048 bytes. The fragment was discarded.</p> <p>Data 1: Fragment Length Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
0849	2121	Incorrect Amount of Data Received	DNP[MCU]	Extended	<p>The application layer detected an inconsistency in the amount of data in the fragment. The fragment was discarded.</p> <p>Data 1: Source Address Data1 Type: RTUAddress Data 2: Reported Length Data2 Type: ushort Data 3: Actual Length Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
084A	2122	Fragment Timed Out on Transmit List	DNP[MCU]	Extended	<p>The fragment was removed from the application layer transmit list after an extended period of inactivity. This will normally only occur if the transport function and data link layer are unable to service transmit requests.</p> <p>Data 1: Source Address Data1 Type: RTUAddress Data 2: Destination Address Data2 Type: RTUAddress</p>

Definitions of Historic Events

					<p>Data 3: Application Control <i>Data3 Type: DNPAAppControl</i> Data 4: Function Code <i>Data4 Type: DNPAAppFunctionCode</i></p>
084B	2123	App Layer Accepted Good Fragment	DNP[MCU]	All	<p>The application layer successfully accepted a complete fragment from the transport function.</p> <p>Data 1: Source Address <i>Data1 Type: RTUAddress</i> Data 2: Data Length <i>Data2 Type: ushort</i> Data 3: Application Control <i>Data3 Type: DNPAAppControl</i> Data 4: Function Code <i>Data4 Type: DNPTranspFunctionCode</i></p>
084C	2124	Peer Device Buffer Full	DNP[MCU]	Extended	<p>A peer device was unable to be added to the peer device list due to the buffer being full.</p> <p>Data 1:Debug Data <i>Data1 Type: ushort</i> Data 2:Debug Data <i>Data2 Type: ushort</i> Data 3:Debug Data <i>Data3 Type: ushort</i> Data 4:Debug Data <i>Data4 Type: ushort</i></p>
084D	2125	Peer Device Already on List	DNP[MCU]	Extended	<p>Addition of the peer device to the list was unsuccessful because the device is already on the list.</p> <p>Data 1: Peer RTU Address <i>Data1 Type: RTUAddress</i> Data 2:Debug Data <i>Data2 Type: ushort</i> Data 3:Debug Data <i>Data3 Type: ushort</i> Data 4:Debug Data <i>Data4 Type: ushort</i></p>
084E	2126	Peer Device Removed From List	DNP[MCU]	Extended	<p>The peer device was successfully removed from the peer device list.</p> <p>Data 1: Peer RTU Address <i>Data1 Type: RTUAddress</i> Data 2: Connection ID <i>Data2 Type: ushort</i> Data 3:Debug Data <i>Data3 Type: ushort</i> Data 4:Debug Data <i>Data4 Type: ushort</i></p>
084F	2127	Peer Device Added to List	DNP[MCU]	Extended	<p>The peer device was successfully added to the peer device list.</p> <p>Data 1: Peer RTU Address <i>Data1 Type: RTUAddress</i> Data 2: Connection ID <i>Data2 Type: ConnectionID</i> Data 3: Port Code <i>Data3 Type: PortCode</i> Data 4:Master Number <i>Data4 Type: Master</i></p>
0850	2128	FIR/FIN Not Set	DNP[MCU]	Extended	<p>The application layer found that the FIR and FIN bits of the Application Control byte were not set. The fragment was discarded.</p> <p>Data 1: Source Address <i>Data1 Type: RTUAddress</i> Data 2: Destination Address <i>Data2 Type: RTUAddress</i> Data 3: Application Control <i>Data3 Type: DNPAAppControl</i> Data 4:Debug Data <i>Data4 Type: ushort</i></p>
0851	2129	Sequence Number Mismatch	DNP[MCU]	Extended	<p>The application layer found that the sequence number in the Application Control byte was inconsistent with what was expected. The fragment was discarded.</p> <p>Data 1: Source Address <i>Data1 Type: RTUAddress</i> Data 2: Destination Address <i>Data2 Type: RTUAddress</i> Data 3: Application Control <i>Data3 Type: DNPAAppControl</i> Data 4:Debug Data <i>Data4 Type: ushort</i></p>
0852	2130	Transient Peer Dev Addition Issue	DNP[MCU]	Extended	<p>The source of this fragment was unknown so an attempt was made to add it to the peer device list. The attempt was unsuccessful so the fragment was discarded.</p> <p>Data 1: Source Address <i>Data1 Type: RTUAddress</i> Data 2: Application Control <i>Data2 Type: DNPAAppControl</i> Data 3:Debug Data <i>Data3 Type: ushort</i> Data 4:Debug Data <i>Data4 Type: ushort</i></p>

0853	2131	No Peer Record Found During Xmit	DNP[MCU]	Extended	A transmit was attempted to a device that was not found on the peer device list. The transmit was aborted. Data 1: Code Location Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0854	2132	URBE Registration Buffer Full	DNP[MCU]	Extended	The buffer containing callback functions for unsolicited messages was full when attempting to add another function. Data 1: Debug Data Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0855	2133	Peer Device Not on List	DNP[MCU]	Extended	The requested peer device was not found on the peer device list when attempting to remove the device from the list. Data 1: Peer RTU Address Data1 Type: RTUAddress Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0856	2134	Initial Unsolicited Msg Confirmed	DNP[MCU]	Extended	Indicates that a confirmation message was received for the unsolicited null messages that must be sent on power up. Data 1: Callback Status Data1 Type: CallbackStatus Data 2: Debug Data Data2 Type: RTUAddress Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
0857	2135	URBE Enabled Via SCADA	DNP[MCU]	Extended	Unsolicited Report by Exception processing was enabled over SCADA. Data 1: Source Address Data1 Type: RTUAddress Data 2: URBE Status Data2 Type: URBEStatus Data 3: Active URBE Class Mask Data3 Type: ActiveURBEClassMask Data 4: Debug Data Data4 Type: ushort
0858	2136	URBE Disabled Via SCADA	DNP[MCU]	Extended	Unsolicited Report by Exception processing was disabled over SCADA. Data 1: Source Address Data1 Type: RTUAddress Data 2: URBE Status Data2 Type: URBEStatus Data 3: Active URBE Class Mask Data3 Type: ActiveURBEClassMask Data 4: Debug Data Data4 Type: ushort
0859	2137	Port Code Invalid	DNP[MCU]	Extended	An invalid port code was detected when attempting to add a peer device to the peer device list. Data 1: Peer RTU Address Data1 Type: RTUAddress Data 2: Invalid Port Code value Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort
085A	2138	Cold Restart Requested	EVT[MCU]	Normal	A cold restart of the control has been requested over SCADA, and will be performed in two seconds. Data 1: Source Address Data1 Type: RTUAddress Data 2: Destination Address Data2 Type: RTUAddress Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort

Definitions of Historic Events

085B	2139	Function Code Not Implemented	DNP[MCU]	Extended	<p>The application layer received a message containing a DNP function code that is invalid or is not implemented.</p> <p>Data 1: Source Address Data1 Type: RTUAddress Data 2: Destination Address Data2 Type: RTUAddress Data 3: Function Code Data3 Type: DNPAppFunctionCode Data 4:Debug Data Data4 Type: ushort</p>
085C	2140	Unknown Master Access Restricted	DNP[MCU]	Extended	<p>A device that was previously unknown has requested an action that is restricted to configured master stations. The restricted actions are writes, select/operate and cold restart.</p> <p>Data 1: Source Address Data1 Type: RTUAddress Data 2: Destination Address Data2 Type: RTUAddress Data 3: Function Code Data3 Type: DNPAppFunctionCode Data 4:Debug Data Data4 Type: ushort</p>
085D	2141	Peer Device Modified on List	DNP[MCU]	Extended	<p>The peer device was successfully modified on the peer device list.</p> <p>Data 1: Peer RTU Address Data1 Type: RTUAddress Data 2: Code Location Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Master Number Data4 Type: ushort</p>
085E	2142	Request time synch received	DNP[MCU]	All	<p>A response was received with the need-time IIN set and a time sync is being attempted.</p> <p>Data 1: Status Data1 Type: EvtBoolean Data 2: Source Address Data2 Type: RTUAddress Data 3: Destination Address Data3 Type: RTUAddress Data 4:Debug Data Data4 Type: ushort</p>
085F	2143	P2P Bad transmit fragment length	DNP[MCU]	All	<p>Data 1: Length of Fragment Data1 Type: ushort Data 2:Debug text Data2 Type: ushort Data 3:Debug text Data3 Type: ushort Data 4:Debug text Data4 Type: ushort</p>
0860	2144	P2P Transmit fragment buffer full	DNP[MCU]	Normal	
0861	2145	P2P No peer device record	DNP[MCU]	All	<p>Data 1: Destination Address Data1 Type: ushort</p>
0862	2146	P2P Fragment declined by transport	DNP[MCU]	Extended	<p>Data 1: Result Code Data1 Type: ushort Data 2: Destination Address/Code Data2 Type: ushort Data 3: Fragment Length Data3 Type: ushort Data 4: Code Location Data4 Type: ushort</p>
0863	2147	P2P No peer for received fragment	DNP[MCU]	All	<p>Data 1: Peer Address Data1 Type: ushort</p>
0864	2148	P2P Application layer CRC error	DNP[MCU]	All	<p>Data 1: Source Address Data1 Type: ushort Data 2: Local Address Data2 Type: ushort Data 3: Expected Sequence Number Data3 Type: ushort</p>
0865	2149	P2P App layer sequence error	DNP[MCU]	Extended	<p>Data 1: Source Address Data1 Type: ushort Data 2: Connection ID Data2 Type: ushort</p>

					Data 3: Expected sequence number Data3 Type: ushort Data 4: Received sequence number Data4 Type: ushort
0866	2150	P2P Unknown peer access restricted	DNP[MCU]	Extended	Data 1: Local Peer Addr Data1 Type: ushort Data 2: Source Peer Addr Data2 Type: ushort Data 3: Requested Function Data3 Type: ushort Data 4: Connection ID Data4 Type: ushort
0867	2151	P2P Error block received from peer	DNP[MCU]	Normal	Data 1: Source Addr Data1 Type: ushort Data 2: Connection ID Data2 Type: ushort Data 3: Errant Object Data3 Type: ushort Data 4: Errant Code Data4 Type: ushort
0868	2152	P2P Function code not implemented	DNP[MCU]	All	Data 1: Local Peer Addr Data1 Type: ushort Data 2: Source Peer Addr Data2 Type: ushort Data 3: Requested Function Data3 Type: ushort Data 4: Connection ID Data4 Type: ushort
0869	2153	P2P Peer not P2P compatible	DNP[MCU]	All	Data 1: Destination Address Data1 Type: ushort Data 2: Connection ID Data2 Type: ushort
086A	2154	P2P Protocol not recognized	DNP[MCU]	All	Data 1: Protocol Type Data1 Type: ushort
086B	2155	P2P Error found in response data	DNP[MCU]	Extended	Data 1: Source Address Data1 Type: ushort Data 2: Connection ID Data2 Type: ushort Data 3: Errant Object Data3 Type: ushort Data 4: Errant Code Data4 Type: ushort
086C	2156	Association reset link sent	DNP[MCU]	All	Data 1: Source Addr Data1 Type: ushort Data 2: Destination Addr Data2 Type: ushort Data 3: Port ID Data3 Type: ushort
086D	2157	Association reset link send error	DNP[MCU]	Extended	Data 1: Source Addr Data1 Type: ushort Data 2: Destination Addr Data2 Type: ushort Data 3: Port ID Data3 Type: ushort
086E	2158	Association reset link ack rcvd	DNP[MCU]	All	Data 1: Peer Addr Data1 Type: ushort Data 2: Connection ID Data2 Type: ushort
086F	2159	P2P Association test sent	DNP[MCU]	All	Data 1: Destination Addr Data1 Type: ushort
0870	2160	P2P Assoc test Unsuccessful	DNP[MCU]	Extended	Data 1: Destination Addr Data1 Type: ushort
0871	2161	P2P Association test response rcvd	DNP[MCU]	All	Data 1: Peer Device Address Data1 Type: ushort Data 2: P2P Support Flag Data2 Type: ushort Data 3: MTU Size Data3 Type: ushort

Definitions of Historic Events

0872	2162	P2P Support query received	DNP[MCU]	All	Data 1: Source Address Data1 Type: ushort
0873	2163	P2P Reset Association frame sent	DNP[MCU]	All	Data 1: Peer Device Address Data1 Type: ushort
0874	2164	Association negotiation incomplete	DNP[MCU]	Extended	Data 1: Destination Address Data1 Type: ushort Data 2: Association State Data2 Type: ushort
0875	2165	P2P Xmt temporarily suspended	DNP[MCU]	All	Data 1: Destination Addr Data1 Type: ushort Data 2: Connection ID Data2 Type: ushort Data 3: Suspend Countdown Timer Value Data3 Type: ushort
0876	2166	P2P App layer fragment xmit	DNP[MCU]	All	Data 1: Transmit Result Code Data1 Type: ushort Data 2: Destination Addr Data2 Type: ushort Data 3: Port ID Data3 Type: ushort Data 4: Fragment Length Data4 Type: ushort
0877	2167	Local/Remote Callback Registered	DNP[MCU]	Normal	
0880	2176	Special Function Buffer Full	DNP[MCU]	Extended	An attempt by the application to register a special memory read/write function was rejected because the buffer was full. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0881	2177	Special Function Already on List	DNP[MCU]	Extended	An attempt by the application to register a special memory read/write function was rejected because a special function for that memory location already exists in the buffer. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0882	2178	Error in Object Parse	DNP[MCU]	Extended	The header or data portion of an object that was returned in a response message was invalid or otherwise unexpected. If possible other objects within the response will still be processed. Data 1: Object Type Data1 Type: DNPObjectType Data 2: Source Address Data2 Type: RTUAddress Data 3: Destination Address Data3 Type: RTUAddress Data 4: Data4 Type: ushort
0883	2179	Object Variation Error	DNP[MCU]	Extended	The variation of the object that was returned in the response message is invalid or unsupported. Data 1: Object Type Data1 Type: DNPObjectType Data 2: Source Address Data2 Type: RTUAddress Data 3: Destination Address Data3 Type: RTUAddress Data 4: Variation Data4 Type: DNPObjectVariation
0884	2180	Object Qualifier Error	DNP[MCU]	Extended	The qualifier code of the object that was returned in the response message is invalid or unsupported. Data 1: Object Type Data1 Type: DNPObjectType Data 2: Source Address Data2 Type: RTUAddress

					<p>Data 3: Destination Address <i>Data3 Type:</i> RTUAddress Data 4: Invalid Qualifier/ Index code <i>Data4 Type:</i> ushort</p>
0885	2181	Parsed Data Buffer Full	DNP[MCU]	Extended	<p>The data buffer containing the parsed object data is full. No further parsing of this response message will take place.</p> <p>Data 1: Object Type <i>Data1 Type:</i> DNPOBJECTType Data 2: Source Address <i>Data2 Type:</i> RTUAddress Data 3: Destination Address <i>Data3 Type:</i> RTUAddress Data 4: Variation <i>Data4 Type:</i> DNPOBJECTVariation</p>
0886	2182	Object Header Error	DNP[MCU]	Extended	<p>An error was detected in the object header of the DNP message.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: Destination Address <i>Data2 Type:</i> RTUAddress Data 3: Object Type <i>Data3 Type:</i> DNPOBJECTType Data 4: Variation <i>Data4 Type:</i> DNPOBJECTVariation</p>
0887	2183	Error Assembling Object Header	DNP[MCU]	Extended	<p>An error was detected in the object header during assembly of a response message. The response process was aborted.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: Destination Address <i>Data2 Type:</i> RTUAddress Data 3: Object Type <i>Data3 Type:</i> DNPOBJECTType Data 4: Variation <i>Data4 Type:</i> DNPOBJECTVariation</p>
0888	2184	Invalid Object Range Index	DNP[MCU]	Extended	<p>An error was detected in an object header of the current request message related to the data index values. An attempt will be made to process other objects within the message.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: First Index or Index Size <i>Data2 Type:</i> ushort Data 3: Last Index or Qualifier <i>Data3 Type:</i> ushort Data 4: Code Location <i>Data4 Type:</i> ushort</p>
0889	2185	Fragment Data Size Error	DNP[MCU]	Extended	<p>The amount of data available in the fragment was not consistent with the expected amount of data. The fragment was discarded.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: Data Length <i>Data2 Type:</i> ushort Data 3: Data Index <i>Data3 Type:</i> ushort Data 4: Code Location <i>Data4 Type:</i> ushort</p>
088A	2186	Object/Variation Not Supported	DNP[MCU]	Extended	<p>The object being processed does not include a support object and variation combination. An attempt will be made to continue parsing other objects within the message.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: Object Type <i>Data2 Type:</i> DNPOBJECTType Data 3: Variation <i>Data3 Type:</i> DNPOBJECTVariation Data 4: Code Location <i>Data4 Type:</i> ushort</p>
088B	2187	Special Function Registered	DNP[MCU]	Extended	<p>A special function related to a specific memory action and virtual memory address was successfully added to the list.</p> <p>Data 1: VMFunctionCode <i>Data1 Type:</i> VMFunctionCode Data 2: Memory Address <i>Data2 Type:</i> VAddr16 Data 3: Debug Data <i>Data3 Type:</i> ushort Data 4: Debug Data <i>Data4 Type:</i> ushort</p>
088C	2188	Virtual Memory Read or Write Error	DNP[MCU]	Extended	<p>A request to read or write virtual memory addresses was unsuccessful.</p> <p>Data 1: Source Address <i>Data1 Type:</i> RTUAddress Data 2: Memory Address <i>Data2 Type:</i> VAddr16 Data 3: Result Code returned by OS <i>Data3 Type:</i> ushort Data 4: Action <i>Data4 Type:</i> VMAccessAction</p>

Definitions of Historic Events

088D	2189	SBO Select Timer Unavailable	DNP[MCU]	Extended	<p>An internal timer was not available to perform the select-before-operate timing function. The operation request was aborted.</p> <p>Data 1: Object Type Data1 Type: DNPOBJECTType Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
088E	2190	SBO Select Timer Error	DNP[MCU]	Extended	<p>An error was detected when attempting to initialize a select-before-operate timer. The operation request was aborted.</p> <p>Data 1: Object Type Data1 Type: DNPOBJECTType Data 2: SBO Timer Value Data2 Type: SBOTimerValue Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
088F	2191	Issue With Output Block	DNP[MCU]	All	<p>An operation request was unsuccessful due to an issue in the Control Relay Output Block of the message. See DNP documentation for a complete list of DNP Output Block status codes.</p> <p>Data 1: Object Type Data1 Type: DNPOBJECTType Data 2: DNP Output Block Status Code Data2 Type: DNPOutputBlockStatusCode Data 3: Point Number Data3 Type: ushort Data 4: Function Code Data4 Type: DNPAppFunctionCode</p>
08A0	2208	Control Point Function Registered	DNP[MCU]	Extended	<p>A control point special function was successfully added to the list. This function connects a control operation with functionality elsewhere in the application.</p> <p>Data 1: Point Code Data1 Type: DNPPointCode Data 2: Associated RTU Address Data2 Type: RTUAddress Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
08A1	2209	Control Point Code Not Mapped	DNP[MCU]	Extended	<p>A control point special function was not added to the list because the control point is not yet included in the point mapping configuration.</p> <p>Data 1: Point Code Data1 Type: DNPPointCode Data 2: Associated RTU Address Data2 Type: RTUAddress Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
08A2	2210	Change to Point Map Detected	DNP[MCU]	All	<p>A configuration change to a point map was detected. This change will be processed 30 seconds after the last change is detected.</p> <p>Data 1: Map Number Data1 Type: MapNumber Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
08A3	2211	Error in Getting Map Timer	DNP[MCU]	Extended	<p>An error was detected when attempting to initialize a map-change timer. The operation will be retried.</p> <p>Data 1: Map Number Data1 Type: MapNumber Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ushort</p>
08A4	2212	Point Processing Timer Unavailable	DNP[MCU]	Extended	<p>An internal timer was not available to perform the routing table configuration change timing function. DNP initialization will be aborted.</p> <p>Data 1: Debug Data Data1 Type: ushort</p>

					<p>Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08A5	2213	Point Map Reinitialized	DNP[MCU]	Normal	<p>The point map was successfully reinitialized following completion of changes to the point map configuration.</p> <p>Data 1: Map Number Data1 Type: MapNumber Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08A6	2214	Point Definition Invalid	DNP[MCU]	Extended	<p>An issue was found in the configuration data of a mapped point. The map will not be initialized until the error is corrected.</p> <p>Data 1: Map Number Data1 Type: MapNumber Data 2: Point Index Data2 Type: ushort Data 3: Error Data Data3 Type: ushort Data 4: Code Location Data4 Type: ushort</p>
08A7	2215	Input Point Code Not Mapped	DNP[MCU]	Extended	<p>The application attempted to supply input data for a point that was not included in the configured point mapping.</p> <p>Data 1: Point Type Data1 Type: DNPPointType Data 2: Point Code Data2 Type: DNPPointCode Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08A9	2217	Event Buffer Overflow	DNP[MCU]	Extended	<p>An overflow condition has been reached for the event buffer of the reported point type. The oldest event will be removed to make room for this new event, and the overflow IIN bit will be set.</p> <p>Data 1: DNP Point Type Data1 Type: DNPPointType Data 2:Master Number Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08AA	2218	Analog Output Function Registered	DNP[MCU]	Extended	<p>An analog output point special function was successfully added to the list. This function connects an Analog output operation with functionality elsewhere in the application.</p> <p>Data 1: Point Code Data1 Type: DNPPointCode Data 2: Associated RTU Address Data2 Type: RTUAddress Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08AB	2219	Analog Output Code Not Mapped	DNP[MCU]	Extended	<p>An analog output point special function was not added to the list because the analog output point is not yet included in the point mapping configuration.</p> <p>Data 1: Point Code Data1 Type: DNPPointCode Data 2: Associated RTU Address Data2 Type: RTUAddress Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08AC	2220	Map Change Callback Buffer Full	DNP[MCU]	Extended	<p>A special function to be used to inform the application about map changes was unable to be added to the list. The list was full.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08AD	2221	Map Change Callback Registered	DNP[MCU]	Extended	<p>A special function to be used to inform the application about map changes was successfully added to the list.</p> <p>Data 1:Debug Data Data1 Type: ushort</p>

Definitions of Historic Events

					<p>Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08C0	2240	Route Processing Timer Unavailable	DNP[MCU]	Extended	<p>An internal timer was not available to perform the map-change timing function. DNP initialization will be aborted.</p> <p>Data 1: Map Number Data1 Type: MapNumber Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08C1	2241	Route Entry Invalid	DNP[MCU]	Extended	<p>An issue was found with one of the configured route entries. The route table will not be initialized until the issue is corrected.</p> <p>Data 1: Route RTU Address Data1 Type: RTUAddress Data 2: Route Table Index Data2 Type: ushort Data 3: Route Entry Error Data3 Type: RouteEntryError Data 4:Debug Data Data4 Type: ushort</p>
08C2	2242	Route Could Not be Added	DNP[MCU]	Extended	<p>The routing table did not have room for the new route. The route table will not be initialized.</p> <p>Data 1: Route RTU Address Data1 Type: RTUAddress Data 2: Route Table Index Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08C3	2243	Route Table Initialized	DNP[MCU]	Normal	<p>The route table was successfully initialized with configured routes and routing was enabled.</p> <p>Data 1: Count of Routes Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08C4	2244	Route Configuration Change Detected	DNP[MCU]	All	<p>A configuration change to the routing table was detected. This change will be processed 30 seconds after the last change is detected</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08C5	2245	Error in Route Change Timer	DNP[MCU]	Extended	<p>An error was detected when attempting to initialize a route table-change timer. The operation will be retried.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08C6	2246	Pass-Through Routing Enabled	DNP[MCU]	Normal	<p>A valid pass-through route configuration was found and pass-through routing was enabled.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort</p>
08C7	2247	Pass-Through Routing Disabled	DNP[MCU]	Normal	<p>A valid pass-through route configuration was not found and pass-through routing was disabled.</p> <p>Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort</p>

					Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08C8	2248	DNP Diag Test Start	DNP[MCU]	Normal	Data 1: Test Type Data1 Type: DiagTestType Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08C9	2249	DNP Diag KeepAlive Start	DNP[MCU]	Normal	Data 1: Test Type Data1 Type: DiagTestType Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08CA	2250	DNP Diag Test Ending	DNP[MCU]	Normal	Data 1: Test Type Data1 Type: DiagTestType Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08CB	2251	DNP Diag KeepAlive End	DNP[MCU]	Normal	Data 1: Test Type Data1 Type: DiagTestType Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08CC	2252	DNP Diag Ping Timeout	DNP[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08CD	2253	DNPDiag Send Error	DNP[MCU]	Normal	Data 1: DNP Address Data1 Type: DNPAAddress Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08CE	2254	DNP Diag Max Peers	DNP[MCU]	Normal	Data 1: Max Peers When This Occurs Data1 Type: MaxPeersWhen Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08CF	2255	DNP Diag No Peers	DNP[MCU]	Normal	Data 1: No Peers When This Occurs Data1 Type: NoPeersWhen Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08D0	2256	DNPDiag Test Suspended	DNP[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort

Definitions of Historic Events

08D1	2257	DNPDiag Test Resumed	DNP[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08D2	2258	DNPDiag WatchDog Triggered	DNP[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08D3	2259	DNP Comm Sys Alarm On	DNP[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08D4	2260	DNP Comm Sys Alarm Off	DNP[MCU]	Normal	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08D5	2261	No Diagnostics On Peer. Cannot Test.	DNP[MCU]	All	Remote Peer does not have diagnostics installed, so tests cannot be performed with it. Data 1: DNP Address Data1 Type: DNPAddress Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08D6	2262	Switching to Failover Master	DNP[MCU]	Extended	Switching to Failover Master Data 1: Master RTU Address Data1 Type: RTUAddress Data 2: IP addr first half Data2 Type: Hexushort Data 3:IP addr second half Data3 Type: Hexushort Data 4:Master Number Data4 Type: ushort
08D7	2263	Switching to Master Primary	DNP[MCU]	Extended	Switching to Master Primary Data 1: Master RTU Address Data1 Type: RTUAddress Data 2: IP addr first half Data2 Type: Hexushort Data 3:IP addr second half Data3 Type: Hexushort Data 4:Master Number Data4 Type: ushort
08D8	2264	Master wrong IP Addr Cmd Rejected	DNP[MCU]	Extended	Switching to Master Primary Data 1: Master RTU Address Data1 Type: RTUAddress Data 2: IP addr first half Data2 Type: Hexushort Data 3:IP addr second half Data3 Type: Hexushort Data 4:Port Code Data4 Type: ushort
08D9	2265	Invalid Master Cmd Rejected	DNP[MCU]	Extended	Switching to Master Primary Data 1: Master RTU Address Data1 Type: RTUAddress Data 2: IP addr first half Data2 Type: Hexushort Data 3:IP addr second half Data3 Type: Hexushort Data 4:Function Code Data4 Type: Hexushort
08DA	2266	Master has wrong port type Cmd Rejected	DNP[MCU]	Extended	Switching to Master Primary Data 1: Master RTU Address Data1 Type: RTUAddress Data 2: IP addr first half Data2 Type: Hexushort

					Data 3:IP addr second half Data3 Type: Hexushort Data 4:Port Code Data4 Type: ushort
08DB	2267	Master used reserved addr. Cmd Rejected	DNP[MCU]	Extended	Switching to Master Primary Data 1: Master RTU Address Data1 Type: RTUAddress Data 2: IP addr first half Data2 Type: Hexushort Data 3:IP addr second half Data3 Type: Hexushort Data 4:Port Code Data4 Type: ushort
08DC	2268	SCADA Set Date/Time	DNP[MCU]	All	SCADA Set Date/Time Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08DD	2269	Recorded Time is 0	DNP[MCU]	All	Recorded Time is 0 Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
08DE	2270	Cold Restart Command Disabled	DNP[MCU]	All	Cold Restart Command Disabled Data 1:Debug Data Data1 Type: RTUAddress Data 2:Debug Data Data2 Type: RTUAddress Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0900	2304	Internal Data Inconsistency	BMM[MCU]	Extended	Base Memory Module-related data sstructures are out of synch. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort
0901	2305	Invalid Call	BMM[MCU]	Extended	BMM software was called incorrectly. Data 1: BMM Operation Data1 Type: BMMOp Data 2: Record ID Data2 Type: BMMRecId
0902	2306	Record Write Abandoned	BMM[MCU]	Extended	Due to BMM write errors record couldn't be written fully. Data 1: Record ID Data1 Type: BMMRecId Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0903	2307	Sector Rescan On Read	BMM[MCU]	Extended	Directory entry for a given record did not correspond to BMM contents and relevant sector(s) are rescanned. Data 1: Record ID Data1 Type: BMMRecId Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0904	2308	New Base Detected	BMM[MCU]	Normal	Control was swapped into a new base.
0905	2309	New WiFi Module	BMM[MCU]	Normal	New WiFi module was swapped.
0906	2310	Sector Found To Be Full	BMM[MCU]	All	Write operation couldn't proceed because the active sector is full. Data 1: Sector Data1 Type: ushort
0907	2311	Sector Erase Start	BMM[MCU]	All	Scheduled Sector Erase Operation Begin. Data 1: Sector Data1 Type: ushort
0908	2312	Sector Erase End	BMM[MCU]	All	Scheduled Sector Erase Operation End. Data 1: Sector Data1 Type: ushort

Definitions of Historic Events

0909	2313	Active Sector Switched	BMM[MCU]	All	Another sector in the pair became active for a given record. Data 1: Record ID Data1 Type: BMMRecId Data 2: Sector Data2 Type: ushort
090A	2314	Directory Reconstruction Start	BMM[MCU]	Extended	In-Memory BMM directory reconstruction begin.
090B	2315	Directory Reconstruction Success	BMM[MCU]	Extended	In-Memory BMM directory reconstruction finished successfully.
090C	2316	Operation Aborted On Error	BMM[MCU]	Extended	BMM operation could not be carried out due to BMM access error. Data 1: Operation Data1 Type: BMMOp Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
090D	2317	Readback Error On Erase	BMM[MCU]	Extended	Sector page wasn't properly erased. Data 1: Sector Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0910	2320	BMM Is Not Ready	BMM[MCU]	Normal	BMM is Not Ready.
0911	2321	BMM Is Ready	BMM[MCU]	Normal	BMM is Ready.
0912	2322	Directory Entry Rebuilt	BMM[MCU]	Extended	Data 1: Record ID Data1 Type: BMMRecId Data 2: Address Data2 Type: ushort Data 3: Length in Bytes Data3 Type: ushort Data 4: Status Data4 Type: BMMRecStatus
0913	2323	Invalid Data Found In Sector	BMM[MCU]	Extended	Unexpected Data was found during a sector scan. Data 1: Sector Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0914	2324	Mechanical Data Read From BMM	BMM[MCU]	Normal	Mechanical Operation Data was successfully read from BMM. Data 1:Debug Data Data1 Type: ushort
0915	2325	Mechanical Data Read From BMM Error	BMM[MCU]	Normal	Mechanical Operation Data was not successfully read from BMM. Data 1:Debug Data Data1 Type: ushort
0916	2326	Mechanical Data Saved To BMM	BMM[MCU]	Normal	Mechanical Operation Data was successfully saved to BMM.
0917	2327	Mechanical Data Saved BMM Error	BMM[MCU]	Normal	Mechanical Operation Data could not be saved to BMM. Data 1:Debug Data Data1 Type: ushort
0918	2328	Could Not Read DPR Control Register	BMM[MCU]	Extended	Error Reading Data Vital To IMS Interaction.
0919	2329	Could Not Write DPR Control Reg	BMM[MCU]	Extended	Error Writing Data Vital To IMS Interaction.
091A	2330	Incorrect Mechanical Data Size	BMM[MCU]	Extended	Mechanical Data Size Is Inconsistent. Data 1:Debug Data Data1 Type: ushort
091B	2331	Could Not Sign Into Base	BMM[MCU]	Normal	Writing signature to base error after control was swapped into a new base.

Definitions of Historic Events

					Data 1:Debug Data Data1 Type: ushort
091C	2332	Unfinished Op. Detected On Startup	BMM[MCU]	Extended	There was a BMM operation in progress during the last power down. Data 1: Operation Data1 Type: BMMOp
091D	2333	BMM Hardware Is Running	BMM[MCU]	Normal	BMM hardware has been tested successfully.
091E	2334	BMM Hardware Error	BMM[MCU]	Normal	BMM hardware has been tested successfully Data 1:Debug Data Data1 Type: ushort
091F	2335	Record Written Successfully	BMM[MCU]	Extended	A record of a given type was successfully saved to base. Data 1: Record Type ID Data1 Type: BMMRecId
0920	2336	Calib Data Successful Load	BMM[MCU]	Normal	Calibration data was successfully loaded from the base.
0921	2337	Calibration Data Load Error	BMM[MCU]	Normal	Not able to load calibration data from base. Data 1:Debug Data Data1 Type: ushort
0922	2338	EOS to BMM Request Problem	BMM[MCU]	Extended	Unexpected data was found during a sector scan. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0923	2339	Operation Aborted On Timeout	BMM[MCU]	Normal	A BMM operation was taking too long and was aborted. All data was discarded. Data 1: BMM Operation Data1 Type: BMMOp Data 2: Record ID Data2 Type: BMMRecId
0924	2340	BMM DNP Irregularity	BMM[MCU]	Normal	Data 1:Trace Info Data1 Type: ushort Data 2:Trace Info Data2 Type: ushort
0925	2341	Shutdown Processing BMM	BMM[MCU]	Normal	Data 1:Trace Info Data1 Type: ushort
0926	2342	Inconsistent Page Read	BMM[MCU]	Normal	A page read was retried on corrupted data and the retry yielded a different page status. Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0A00	2560	Incorrect RTD Event Information	RTD[MCU]	Normal	
0A01	2561	SCADA Command Enabled	RTD[MCU]	Normal	
0A02	2562	SCADA Command Disabled	RTD[MCU]	Normal	
0A03	2563	Error-Clearing Sequence Start	RTD[MCU]	Normal	
0A04	2564	Error-Clearing Sequence End	RTD[MCU]	Normal	Data 1:Trace Info Data1 Type: ushort
0A05	2565	Error-Clearing	RTD[MCU]	Normal	

Definitions of Historic Events

		Sequence Retrieved			
0A06	2566	Emergency Shutdown Detected	RTD[MCU]	Normal	
0A07	2567	Emerge. Shut. Notified All	RTD[MCU]	Normal	
0A08	2568	Orderly Shutdown Detected	RTD[MCU]	Normal	
0A09	2569	Orderly Shutdown Notified All	RTD[MCU]	Normal	
0A0A	2570	Shutdown Cancelled - Restart App	RTD[MCU]	Normal	Data 1:Trace Info Data1 Type: ushort Data 2:Trace Info Data2 Type: ushort Data 3:Trace Info Data3 Type: ushort Data 4:Trace Info Data4 Type: ushort
0A0B	2571	Inconsistent Shutdown Indications	RTD[MCU]	Normal	Data 1:Trace Info Data1 Type: ushort Data 2:Trace Info Data2 Type: ushort Data 3:Trace Info Data3 Type: ushort Data 4:Trace Info Data4 Type: ushort
0A0C	2572	Comm Proc Application Restart	RTD[MCU]	Normal	
0A0D	2573	Current in Direction 1 On	RTD[MCU]	Normal	
0A0E	2574	Current in Direction 1 Off	RTD[MCU]	Normal	
0A0F	2575	Current in Direction 2 On	RTD[MCU]	Normal	
0A10	2576	Current in Direction 2 Off	RTD[MCU]	Normal	
0A11	2577	Command Status Backup UnSuccess	RTD[MCU]	Extended	Data 1:step type Data1 Type: ushort Data 2:step Data2 Type: ushort
0A12	2578	Command Status Restore UnSuccess	RTD[MCU]	Normal	Data 1:step type Data1 Type: ushort Data 2:step Data2 Type: ushort Data 3:instance Data3 Type: ushort
0A13	2579	Command Status Backup Success	RTD[MCU]	Extended	
0A14	2580	Command Status Restore Success	RTD[MCU]	Extended	
0A15	2581	Comm Test Toggle On	RTD[MCU]	Normal	
0A16	2582	Comm Test Toggle Off	RTD[MCU]	Normal	
0A17	2583	PNG Fault Any Pole On	RTD[MCU]	Normal	
0A18	2584	PNG Fault Any Pole Off	RTD[MCU]	Normal	
0A19	2585	Any Automatic Timer in Progress On	RTD[MCU]	Normal	

0A1A	2586	Any Automatic Timer in Progress Off	RTD[MCU]	Normal	
0A1B	2587	Any Phase Overcurrent Timing On	RTD[MCU]	Normal	
0A1C	2588	Any Phase Overcurrent Timing Off	RTD[MCU]	Normal	
0A1D	2589	Any Phase Overcurrent Tripped On	RTD[MCU]	Normal	
0A1E	2590	Any Phase Overcurrent Tripped Off	RTD[MCU]	Normal	
0B00	2816	Disk Error	CFM[MCU]	All	Data 1:Trace Info Data1 Type: ushort Data 2:Error Code Data2 Type: ushort
0B01	2817	File Allocation In Progress	CFM[MCU]	Normal	
0B02	2818	File Allocation Not In Progress	CFM[MCU]	Normal	
0B03	2819	File Allocation Issue	CFM[MCU]	All	Data 1:Trace Info Data1 Type: ushort Data 2:Error Code Data2 Type: ushort
0B04	2820	Compact Flash Card Not Found	CFM[MCU]	Extended	Data 1:Debug Info (Card State) Data1 Type: ushort
0B05	2821	Disk Check Issue	CFM[MCU]	All	Data 1:Error Code Data1 Type: ushort
0B06	2822	Set Bad Disk Condition to On	CFM[MCU]	Normal	Problem with compact flash card.
0B07	2823	Set Bad Disk Condition to Off	CFM[MCU]	Normal	No problem with compact flash card.
0B08	2824	Allocated File Size Exceeded	CFM[MCU]	All	Data 1:File Class Data1 Type: ushort Data 2: Allocated Size (kB) Data2 Type: ushort Data 3: Written Size (kB) Data3 Type: ushort
0B09	2825	Shutdown Processing CFM	CFM[MCU]	Normal	Data 1:Trace Info Data1 Type: ushort
0B0A	2826	CF Disk Was Tampered With	CFM[MCU]	Normal	Compact Flash Directory Contents Corruption Was Detected on Startup.
0B0B	2827	CF Disk Tampered Indication Cleared	CFM[MCU]	Normal	Compact Flash Directory Contents Corruption Was Not Detected on Startup.
0C00	3072	Control Open Request	IIM[MCU]	Normal	
0C01	3073	Control Open OK	IIM[MCU]	Normal	
0C02	3074	Control Close Request	IIM[MCU]	Normal	
0C03	3075	Control Close OK	IIM[MCU]	Normal	

Definitions of Historic Events

0C04	3076	Activate Alternate Profile Request	IIM[MCU]	Normal	
0C05	3077	Alternate Profile Active	IIM[MCU]	Normal	
0C06	3078	IT II Ready	EVT[MCU]	Normal	
0C07	3079	IT II Not Ready	EVT[MCU]	Normal	
0C08	3080	Control Operation Request Problem	IIM[MCU]	Normal	Data 1: Data1 Type: ControlCode
0C09	3081	Control Operation Problem	IIM[MCU]	Normal	Data 1: Data1 Type: ControlCode
0C0A	3082	Average Load Reset	IIM[MCU]	Normal	Data 1: Data1 Type: AverageLoad
0C0B	3083	SCADA Cleared Manual Operation	IIM[MCU]	Normal	
0C0C	3084	Any Phase Overcurrent	IIM[MCU]	Normal	Data 1: Data1 Type: Hexushort
0C0D	3085	Overcurrents Cleared	IIM[MCU]	Normal	
0C0E	3086	Any Phase Loss Active	IIM[MCU]	Normal	Data 1: Data1 Type: AnyPhaseLoss
0C0F	3087	Any Phase Loss Cleared	IIM[MCU]	Normal	
0C10	3088	IIM Manual Operation Detected	IIM[MCU]	Normal	
0C11	3089	Manual Operation Cleared	IIM[MCU]	Normal	
0C12	3090	Hot-Line Tag Active	EVT[MCU]	Normal	
0C13	3091	Hot-Line Tag Cleared	EVT[MCU]	Normal	
0C14	3092	Frequency Trip Active	EVT[MCU]	Normal	Data 1: Data1 Type: FreqTripType
0C15	3093	Frequency Trip Cleared MCU	IIM[MCU]	Normal	
0C16	3094	Trip to Lockout Active	IIM[MCU]	Normal	
0C17	3095	Trip to Lockout Cleared	IIM[MCU]	Normal	
0C18	3096	Fault Cycling Reset MCU	IIM[MCU]	Normal	
0C19	3097	Fault Cycling Active MCU	IIM[MCU]	Normal	
0C1A	3098	IntelliRupter Status Open	IIM[MCU]	Normal	
0C1B	3099	IntelliRupter Status Closed	IIM[MCU]	Normal	
0C1C	3100	IntelliRupter In Reset State	IIM[MCU]	Normal	
0C1D	3101	IntelliRupter Not In Reset State	IIM[MCU]	Normal	

0C1E	3102	Instant Replay Status Update	IIM[MCU]	All	Data 1:Sw. Status Data1 Type: ushort Data 2:OC Status Data2 Type: ushort Data 3:VL Status Data3 Type: ushort
0C1F	3103	Manual Operation Report	IIM[MCU]	Normal	
0C20	3104	Switch Not Normal State Active	IIM[MCU]	All	Switch not in normal state active Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0C21	3105	Switch Not Normal State Inactive	IIM[MCU]	All	Switch not in normal state inactive Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0C22	3106	Low frequency indication active	IIM[MCU]	All	Low frequency indication active Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0C23	3107	Low frequency indication Inactive	IIM[MCU]	All	Low frequency indication Inactive Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0C24	3108	RTL Xmit Blocked	DAT[MCU]	All	Data 1:Debug Data Data1 Type: ManualOp Data 2:Debug Data Data2 Type: HLT Data 3:Debug Data Data3 Type: FreqTrip Data 4:Debug Data Data4 Type: NoMaster
0C25	3109	PR Unable to Clear After HLT Removal	IIM[MCU]	All	Data 1:Debug Data Data1 Type: ClearPRonHLTRem Data 2:Debug Data Data2 Type: RTLFromSCADAPR Data 3:Debug Data Data3 Type: FreqTrip Data 4:Debug Data Data4 Type: ushort
0C26	3110	PR Cleared After HLT Removal	IIM[MCU]	All	Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0C2A	3114	System Voltage Unrecognized Active	IIM[MCU]	All	System Voltage Unrecognized Active Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0C2B	3115	System Voltage Unrecognized Inactive	IIM[MCU]	All	System Voltage Unrecognized Inactive Data 1:Debug Data Data1 Type: ushort

Definitions of Historic Events

					Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0C2C	3116	Additional Info	IIM[MCU]	All	SAdditional Info Data 1:Debug Data Data1 Type: ushort Data 2:Debug Data Data2 Type: ushort Data 3:Debug Data Data3 Type: ushort Data 4:Debug Data Data4 Type: ushort
0E01	3585	Xfer Trip PR Initiated (DG POI) Active	DAT[MCU]	Normal	Xfer Trip PR Initiated (DG POI) Active Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
0E02	3586	Xfer Trip PR Initiated (DG POI) Inactive	DAT[MCU]	Normal	Xfer Trip PR Initiated (DG POI) Inactive Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
0E03	3587	Transfer Trip Sent Active	DAT[MCU]	Normal	Transfer Trip Sent Active Data 1: Data1 Type: RTUAddress Data 2: Data2 Type: SWPos Data 3: Data3 Type: RTUAddress Data 4: Data4 Type: ushort
0E04	3588	Transfer Trip Sent Inactive	DAT[MCU]	Normal	Transfer Trip Sent Inactive Data 1: Data1 Type: RTUAddress Data 2: Data2 Type: SWPos Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
0E05	3589	DG Reconnect Disqualified On Fault	DAT[MCU]	Normal	DG Reconnect Disqualified On Fault Data 1: Data1 Type: TeamNumberWithUnknown Data 2: Data2 Type: BooleanTrueFalse Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
0E06	3590	Sw1 Auto Manl Op. Clear Timer Stopped	DAT[MCU]	Normal	Sw1 Auto Manual Operation Clearing Timer Stopped Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
0E07	3591	Sw2 Auto Manl Op. Clear Timer Stopped	DAT[MCU]	Normal	Sw2 Auto Manual Operation Clearing Timer Stopped Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
0E08	3592	Sw2 Auto Manl Op. Clear Timer Started	DAT[MCU]	Normal	Sw2 Auto Manual Operation Clearing Timer Started Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1001	4097	Power Status Change	IPM[MCU]	Normal	

Definitions of Historic Events

					Data 1:Digital In State Data1 Type: ushort
1002	4098	Power Status Recover	IPM[MCU]	Normal	Data 1:Digital In State Data1 Type: ushort
1003	4099	Control Power Loss	IPM[MCU]	Normal	
1004	4100	Control Power Recover	IPM[MCU]	Normal	
1005	4101	Main Power Bus Low	IPM[MCU]	Normal	Analog Value Main Power Bus Low. Data 1:Main Power Bus Voltage Data1 Type: ushort
1006	4102	Main Power Bus Normal	IPM[MCU]	Normal	Analog Value Main Power Bus Normal. Data 1:Main Power Bus Voltage Data1 Type: ushort
1007	4103	MCU 3.3 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value MCU_3V3 out of Range. Data 1:MCU 3.3 Voltage Data1 Type: ushort
1008	4104	MCU 3.3 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value MCU_3V3 in Range. Data 1:MCU 3.3 Voltage Data1 Type: ushort
1009	4105	MCU 2.5 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value MCU_2V5 out of Range. Data 1:MCU 2.5 Voltage Data1 Type: ushort
100A	4106	MCU 2.5 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value MCU_2V5 in Range. Data 1:MCU 2.5 Voltage Data1 Type: ushort
100B	4107	MCU 1.8 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value MCU_1V8 out of Range. Data 1:MCU 1.8 Voltage Data1 Type: ushort
100C	4108	MCU 1.8 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value MCU_1V8 in Range. Data 1:MCU 1.8 Voltage Data1 Type: ushort
100D	4109	MCU 1.35 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value MCU_1V35 out of Range. Data 1:MCU 1.35 Voltage Data1 Type: ushort
100E	4110	MCU 1.35 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value MCU_1V35 in Range. Data 1:MCU 1.35 Voltage Data1 Type: ushort
100F	4111	MCU 1.2 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value MCU_1V2 out of Range. Data 1:MCU 1.2 Voltage Data1 Type: ushort
1010	4112	MCU 1.2 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value MCU_1V2 in Range. Data 1:MCU 1.2 Voltage Data1 Type: ushort
1011	4113	MCU_0V6 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value MCU_0V6 out of Range. Data 1:MCU_0V6 Voltage Data1 Type: ushort
1012	4114	MCU_0V6 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value MCU_0V6 in Range. Data 1:MCU_0V6 Voltage Data1 Type: ushort
1013	4115	MCU_1V0 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value MCU_1V0 out of Range. Data 1:MCU_1V0 Voltage Data1 Type: ushort
1014	4116	MCU_1V0 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value MCU_1V0 in Range. Data 1:MCU_1V0 Voltage Data1 Type: ushort

Definitions of Historic Events

1015	4117	DSP_5V Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value DSP_5V out of Range. Data 1:DSP_5V Voltage Data1 Type: ushort
1016	4118	DSP_5V Voltage Supply Normal	IPM[MCU]	Normal	Analog Value DSP_5V in Range. Data 1:DSP_5V Voltage Data1 Type: ushort
1017	4119	DSP_3V3 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value DSP_3V3 out of Range. Data 1:DSP_3V3 Voltage Data1 Type: ushort
1018	4120	DSP_3V3 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value DSP_3V3 in Range. Data 1:DSP_3V3 Voltage Data1 Type: ushort
1019	4121	DSP_2V5 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value DSP_2V5 out of Range. Data 1:DSP_2V5 Voltage Data1 Type: ushort
101A	4122	DSP_2V5 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value DSP_2V5 in Range. Data 1:DSP_2V5 Voltage Data1 Type: ushort
101B	4123	DSP_1V8 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value DSP_1V8 out of Range. Data 1:DSP_1V8 Voltage Data1 Type: ushort
101C	4124	DSP_1V8 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value DSP_1V8 in Range. Data 1:DSP_1V8 Voltage Data1 Type: ushort
101D	4125	DSP_P15V Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value DSP_P15V out of Range. Data 1:DSP_P15V Voltage Data1 Type: ushort
101E	4126	DSP_P15V Voltage Supply Normal	IPM[MCU]	Normal	Analog Value DSP_P15V in Range. Data 1:DSP_P15V Voltage Data1 Type: ushort
101F	4127	DSP_M15V Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value DSP_M15V out of Range. Data 1:DSP_M15V Voltage Data1 Type: ushort
1020	4128	DSP_M15V Voltage Supply Normal	IPM[MCU]	Normal	Analog Value DSP_M15V in Range. Data 1:DSP_M15V Voltage Data1 Type: ushort
1021	4129	DSP_1V2 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value DSP_1V2 out of Range. Data 1:DSP_1V2 Voltage Data1 Type: ushort
1022	4130	DSP_1V2 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value DSP_1V2 in Range. Data 1:DSP_1V2 Voltage Data1 Type: ushort
1023	4131	P15 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value P15 out of Range. Data 1:P15 Voltage Data1 Type: ushort
1024	4132	P15 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value P15 in Range. Data 1:P15 Voltage Data1 Type: ushort
1025	4133	P5 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value P5 out of Range. Data 1:P5 Voltage Data1 Type: ushort
1026	4134	P5 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value P5 in Range. Data 1:P5 Voltage Data1 Type: ushort
1027	4135	CCP_PWR Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value CCP_PWR out of Range.

Definitions of Historic Events

					Data 1:CCP_PWR Voltage Data1 Type: ushort
1028	4136	CCP_PWR Voltage Supply Normal	IPM[MCU]	Normal	Analog Value CCP_PWR in Range. Data 1:CCP_PWR Voltage Data1 Type: ushort
1029	4137	PG_5V6 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value PG_5V6 out of Range. Data 1:PG_5V6 Voltage Data1 Type: ushort
102A	4138	PG_5V6 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value PG_5V6 in Range. Data 1:PG_5V6 Voltage Data1 Type: ushort
102B	4139	PG_1V3 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value PG_1V3 out of Range. Data 1:PG_1V3 Voltage Data1 Type: ushort
102C	4140	PG_1V3 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value PG_1V3 in Range. Data 1:PG_1V3 Voltage Data1 Type: ushort
102D	4141	PG_5 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value PG_5 out of Range. Data 1:PG_5 Voltage Data1 Type: ushort
102E	4142	PG_5 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value PG_5 in Range. Data 1:PG_5 Voltage Data1 Type: ushort
102F	4143	BMM_3V3 Voltage Supply Out of Range	IPM[MCU]	Normal	Analog Value BMM_3V3 out of Range. Data 1:BMM_3V3 Voltage Data1 Type: ushort
1030	4144	BMM_3V3 Voltage Supply Normal	IPM[MCU]	Normal	Analog Value BMM_3V3 in Range. Data 1:BMM_3V3 Voltage Data1 Type: ushort
1031	4145	IPM:AC Power Present	IPM[MCU]	Normal	Data 1:Digital In State Data1 Type: ushort
1032	4146	IPM:AC Power Not Present	IPM[MCU]	Normal	Data 1:Digital In State Data1 Type: ushort
1033	4147	IPM:Battery Disconnect	IPM[MCU]	Normal	
1034	4148	IPM: Battery Connected	IPM[MCU]	Normal	
1035	4149	Capacitor Voltage Low	IPM[MCU]	Normal	
1036	4150	Capacitor Voltage Normal	IPM[MCU]	Normal	
1037	4151	IPM in Monitor Mode	IPM[MCU]	Normal	
1038	4152	IPM in Operation Mode	IPM[MCU]	Normal	
1041	4161	Nonfunctional IPM	IPM[MCU]	Normal	IPM not functioning. Data 1:Digital In State Data1 Type: ushort
1042	4162	Clear Nonfunctional IPM	IPM[MCU]	Normal	IPM ok. Data 1:Digital In State Data1 Type: ushort
1201	4609	Originating a SRC Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort

Definitions of Historic Events

					Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1202	4610	Received Old Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1203	4611	Received Duplicate Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1204	4612	Received New Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1205	4613	Forwarding a Received Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1206	4614	Originating an Endload Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1207	4615	COS Cleared	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1208	4616	Team Config Netlist Mismatch	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1209	4617	COS Active	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
120A	4618	Missing Runners	NET[MCU]	Normal	Data 1: This state provides a user programmable time delay before starting the runners repeated after each successful round of collection + distribution Data1 Type: StatusFeedbackArea Data 2: Runner's Quantity Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort

120B	4619	All Runners Received	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
120C	4620	NETLIST no alt source found	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
120D	4621	NETLIST alt source result	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
120E	4622	Building COS Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
120F	4623	COS Reported by IT	NET[MCU]	All	Data 1: Local Load COS Data1 Type: ushort Data 2: Average Load Data2 Type: ushort Data 3: 3-Phase Average Load Data3 Type: ushort Data 4: Team Member Number Data4 Type: TeamRecord
1210	4624	COS Received in Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1211	4625	Forwarding Dup. COS Runner	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1212	4626	Loc Netlist Old. Need it From RTU	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1213	4627	New Netlist Request From RTU	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1214	4628	Netlist Record Sent	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort

Definitions of Historic Events

					Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1215	4629	Netlist Record Received	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1216	4630	ITII Mode is Active	NET[MCU]	Normal	Data 1:Instance Data1 Type: Instance Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1217	4631	ITII Mode is Inactive	NET[MCU]	Normal	Data 1:Instance Data1 Type: Instance Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1218	4632	NET: Missing Runners in Adj Net Active	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1219	4633	NET: Missing Runners Adj Net Inactive	NET[MCU]	All	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1220	4640	NETX Adj data delivery runner is initiated	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1221	4641	NETX Adj Data Delivery of Runner's Timeout	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1222	4642	NETX Indiv Adj Data Runner Path Timeout	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1223	4643	NETX Indiv Adj Data Runner Path Present	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1241	4673	NETV: Netlist Changed	NET[MCU]	Normal	Data 1: Netview number of devices/switches in DivisionNet

					<p>Data 1 Type: NumOfDevices Data 2: Number of entries in the D-W (Device-Wire) tables Data2 Type: NumOfWirePairs Data 3: Number of Teams Data3 Type: NumOfTeams Data 4:Null Data4 Type: ushort</p>
1242	4674	NETV: Network Config. Changed	NET[MCU]	Normal	<p>Data 1: Number of rows in table for DivisionNet Data1 Type: NumOfRows Data 2: Number of power sources in DivisionNet Data2 Type: NumOfPowSrc Data 3: Net View Analyzer Data3 Type: NetViewAnalyzer Data 4: Number is there for debugging use Data4 Type: ushort</p>
1250	4688	NETX dispatch initiated	NET[MCU]	Normal	<p>Data 1: Net Object Type Data1 Type: RunnerType Data 2: Source RTU Address Data2 Type: RTUAddress Data 3: Source Node ID Data3 Type: SrcNodeID Data 4: Destination Node ID Data4 Type: DestNodeID</p>
1251	4689	NETX EPD netlist received	NET[MCU]	Normal	<p>Data 1: Net Object ID Data1 Type: ObjID Data 2: Size of the arriving object in bytes, also a flag/signal of arrival to State machine A Data2 Type: SizeOfObject Data 3: Net Object Length Data3 Type: ObjectLength Data 4: Bufsiz Data4 Type: bufsiz</p>
1252	4690	NETX Net list trouble	NET[MCU]	Normal	<p>Data 1: Net Object ID Data1 Type: ObjID Data 2: Size of the arriving object in bytes, also a flag/signal of arrival to State machine A Data2 Type: SizeOfObject Data 3: Net Object Length Data3 Type: ObjectLength Data 4: Bufsiz Data4 Type: bufsiz</p>
1253	4691	NETX bad runner index	NET[MCU]	Normal	<p>Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Feeder Net ID Data2 Type: FeederNetID Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4:Null Data4 Type: ushort</p>
1254	4692	NETX node index not found	NET[MCU]	Normal	<p>Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Node Index Data3 Type: NodeIndex Data 4: Net Object Type Data4 Type: RunnerType</p>
1255	4693	NETX bad object data length	NET[MCU]	Normal	<p>Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object Length Data2 Type: ObjectLength Data 3: Data Length Data3 Type: DataLength Data 4: Net Object Type Data4 Type: RunnerType</p>
1256	4694	NETX new netlist delivery	NET[MCU]	Normal	<p>Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: Size of runner in RTU addresses Data4 Type: RTUAddress</p>

Definitions of Historic Events

1257	4695	NETX chk for comm chk runner's passing	NET[MCU]	Normal	NETX check for communication check runner's passing Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: Feeder Net ID Data4 Type: FeederNetID
1258	4696	NETX chk for comm chk runner's return	NET[MCU]	Normal	NETX check for communication check runner's return Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: Feeder Net ID Data4 Type: FeederNetID
1259	4697	NETX initiate communication check runner	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
125A	4698	NEX communication check runner's timeout	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
125B	4699	NETX communication check runner complete	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
125C	4700	NETX activation runner return	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: Size of runner in RTU addresses Data4 Type: RTUAddress
125D	4701	NETX activation of the runner's passing	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: Size of runner in RTU addresses Data4 Type: RTUAddress
125E	4702	NETX activation of runner's initiation	NET[MCU]	Normal	Data 1: RETV:AT EPD Launch all the Activation Runners to the next RTU in line Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
125F	4703	NETX activation of runner is complete	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1260	4704	NETX activation of runner's timout	NET[MCU]	Normal	

Definitions of Historic Events

					Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1261	4705	NETX collection runner return	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: FeederNetID Data4 Type: FeederNetID
1262	4706	NETX collection runner's passing	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: FeederNetID Data4 Type: FeederNetID
1263	4707	NETX collection as the runner initiates	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1264	4708	NETX collection of runner's timeout	NET[MCU]	Normal	Data 1: RETV:AT EPD Launch all the Activation Runners to the next RTU in line Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1265	4709	NETX data delivery runner's return	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: FeederNetID Data4 Type: FeederNetID
1266	4710	NETX data delivery of runner's passing	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4: FeederNetID Data4 Type: FeederNetID
1267	4711	NETX data delievery runner is intitiated	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1268	4712	NETX data delivery of runner's timeout	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1269	4713	NETX Feeder Net delivery to intiate rnr	NET[MCU]	Normal	NETX Feeder Net delivery to intiate runner Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort

Definitions of Historic Events

126A	4714	NETX Feeder Net runner delivery complete	NET[MCU]	Normal	>NETX Feeder Net delivery of runner is complete Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
126B	4715	NETX Feeder Net delivery runner's timeout	NET[MCU]	Normal	NETX Feeder Net delivery runner's timeout Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
126C	4716	NETX data runner's cycle is complete	NET[MCU]	Normal	 Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
126D	4717	NETX continue adjacent distributres	NET[MCU]	Normal	 Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination Node ID Data2 Type: DestNodeID Data 3: Runner Number Data3 Type: RunnerNumber Data 4:Null Data4 Type: ushort
126E	4718	NETX inti adj Feeder Net distributers	NET[MCU]	Normal	NETX intiate adjacent Feeder Net distributers Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Destination Node ID Data3 Type: DestNodeID Data 4: Net Object Length Data4 Type: ObjectLength
126F	4719	NETX init adjacent data block reporter	NET[MCU]	Normal	NETX intiate adjacent data block reporter Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Destination Node ID Data3 Type: DestNodeID Data 4: Net Object Length Data4 Type: ObjectLength
1270	4720	NETX fwd adjacent data block reporter	NET[MCU]	Normal	NETX forward adjacent data block reporter Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Destination Node ID Data3 Type: DestNodeID Data 4: Net Object Length Data4 Type: ObjectLength
1271	4721	NETX sync net list to DAT delayed	NET[MCU]	Normal	 Data 1: SyncStat Data1 Type: syncstat Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1272	4722	NETX sync net list to DAT is not good	NET[MCU]	Normal	 Data 1: SyncStat Data1 Type: syncstat Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1273	4723	NETX netlist copy request	NET[MCU]	Normal	 Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net object ID Data2 Type: ObjID

					Data 3: Feeder Net ID Data3 Type: FeederNetID Data 4: Feeder Net CRC Data4 Type: FeederNetCRC
1274	4724	NETX netlist copy response	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Feeder Net ID Data3 Type: FeederNetID Data 4: Feeder Net CRC Data4 Type: FeederNetCRC
1275	4725	NETX Feeder Net ID and CRC mismatch	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Feeder Net ID Data2 Type: FeederNetID Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4: Net Object Type Data4 Type: RunnerType
1276	4726	NETX netlist reporter returned	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Destination Node ID Data3 Type: DestNodeID Data 4: Object Length Data4 Type: ObjectLength
1277	4727	NETX forward net list reporter	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Destination Node ID Data3 Type: DestNodeID Data 4: Object Length Data4 Type: ObjectLength
1278	4728	NETX net list copy initiate	NET[MCU]	Normal	Data 1: Feeder Net ID Data1 Type: FeederNetID Data 2: Feeder Net CRC Data2 Type: FeederNetCRC Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1279	4729	NETX report adj netlist distributors	NET[MCU]	Normal	NETX report adjacent netlist distributors Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
127A	4730	NETX report adjacent data block	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1280	4736	Configuration is in progress	NET[MCU]	Normal	Data 1: Instance Data1 Type: Instance Data 2: Source RTU Address Data2 Type: RTUAddress Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4: Feeder Net ID Data4 Type: FeederNetID
1281	4737	Configuration is not in progress	NET[MCU]	Normal	Data 1: Previous State Data1 Type: StatusFeedbackArea Data 2: Feeder Net ID Data2 Type: FeederNetID Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4:Null Data4 Type: ushort
1283	4739	Settings Accepted	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort

Definitions of Historic Events

					Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1284	4740	Settings Received	NET[MCU]	Normal	If Data 4 reads 10 then Data 4 = Net Object State Revived Command Data 1: Net View number of devices in DivisionNet Data1 Type: ushort Data 2: Error Code 1 Data2 Type: Hexushort Data 3: Error Code 2 Data3 Type: Hexushort Data 4:Null Data4 Type: ushort
1285	4741	Netlist Propagation Enabled	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1286	4742	Netlist Propagation Disabled	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1290	4752	Netlist Loaded From BMM	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1291	4753	Netlist BMM Load Issue	NET[MCU]	Normal	Data Field 1 could be the BMM_Result in which case please refer to the "BMMRESULT" DataType Data 1: Bmm_State Data1 Type: BMMSTATE Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1292	4754	Netlist Saved To BMM	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
1293	4755	Netlist BMM Save Issue	NET[MCU]	Normal	Data Field 1 could be the BMM_Result in which case please refer to the "BMMRESULT" DataType Data 1: Bmm_State Data1 Type: BMMSTATE Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
12A0	4768	NETO buffer pool intialized	NET[MCU]	Normal	Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
12A1	4769	NETO combined buffers	NET[MCU]	Normal	Data 1: Loop Count Data1 Type: ushort Data 2: Del Count Data2 Type: ushort

					Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
12A2	4770	NETO buffer pool length is bad	NET[MCU]	Normal	Data 1: Total Length Data1 Type: totallen Data 2: Pool Size Data2 Type: ushort Data 3: Cumulative Free Buffer Space Data3 Type: netobuffFree Data 4: Loop Count Data4 Type: ushort
12A3	4771	NETO does not have enough space to store obj	NET[MCU]	Normal	NETO does not have enough space to store object Data 1: Net Fragment ID Data1 Type: netfragID Data 2: Source Net ID Data2 Type: SrcNodeID Data 3: Cumulative Free Buffer Space Data3 Type: netobuffFree Data 4: Data Length Data4 Type: DataLength
12A4	4772	NETO object buffering is full	NET[MCU]	Normal	Data 1: Net Fragment ID Data1 Type: netfragID Data 2: Source Net ID Data2 Type: SrcNodeID Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
12A5	4773	NETO bad store request	NET[MCU]	Normal	Data 1: Net Fragment ID Data1 Type: netfragID Data 2: Source Net ID Data2 Type: SrcNodeID Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
12A6	4774	NETO data buffer is full	NET[MCU]	Normal	Data 1: Net Fragment ID Data1 Type: netfragID Data 2: Source Net ID Data2 Type: SrcNodeID Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
12A7	4775	NETO object handed up	NET[MCU]	Normal	Data 1: Net Object State Data1 Type: ObjState Data 2: Source RTU Address Data2 Type: RTUAddress Data 3: Net Object ID Data3 Type: ObjID Data 4:Null Data4 Type: ushort
12A8	4776	NETO deleted object FIR only	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Net Fragment ID Data3 Type: netfragID Data 4:Null Data4 Type: ushort
12A9	4777	NETO bad fragment added	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Net Fragment ID Data3 Type: netfragID Data 4: Net Fragment ID Data4 Type: netfragID
12AA	4778	NETO fragment not found	NET[MCU]	Normal	Data3 could equal the NetObject State if we are talking about the NETxVerboseLog Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Net Fragment ID Data3 Type: netfragID Data 4:Null Data4 Type: ushort

Definitions of Historic Events

12AB	4779	NETO object fragment sent	NET[MCU]	Normal	Data 1: Net Fragment ID Data1 Type: netfragID Data 2: Net object ID Data2 Type: ObjID Data 3: Net object type Data3 Type: RunnerType Data 4: Data Length Data4 Type: DataLength
12AC	4780	NETO object fragment was declined	NET[MCU]	Normal	Data 1: xmtresultcode Data1 Type: xmtresultcode Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Net Fragment ID Data3 Type: netfragID Data 4: Data Length Data4 Type: DataLength
12AD	4781	NETO object list's timeout	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Fragment ID Data2 Type: netfragID Data 3: Net Object ID Data3 Type: ObjID Data 4: Net Object State Data4 Type: ObjState
12B0	4784	NETD ACK has failed	NET[MCU]	Normal	Data 1: Destination RTU Address Data1 Type: RTUAddress Data 2: DataLength Data2 Type: DataLength Data 3: Result= (netdSendObject(DNPGetLocalAddress(DNPADDRGOLDEN), destAddr, DNPCIDNETOBJMGT, datatosend, (NETOBJHEADDATALEN + 1))); Data3 Type: ushort Data 4:Null Data4 Type: ushort
12B1	4785	NETD sending object	NET[MCU]	Normal	Data 1: Destination RTU Address Data1 Type: RTUAddress Data 2: Data Length Data2 Type: DataLength Data 3: Result=DNPXmtMultiService Data3 Type: ushort Data 4: Connection ID Data4 Type: connectID
12B2	4786	NETD recieved object	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Net Object ID Data2 Type: ObjID Data 3: Net Object Type Data3 Type: RunnerType Data 4: Data Length Data4 Type: DataLength
1701	5889	WiFi Intrusion Attempt	WFM[MCU]	Normal	Alarms reported from WiFi module for replay attack or authentication error. Data 1:Debug Data Data1 Type: ushort
1704	5892	WiFi User Connected	WFM[MCU]	Normal	WiFi user connected.
1705	5893	WiFi User Disconnected	WFM[MCU]	Normal	WiFi user disconnected.
1707	5895	WiFi Intrusion Active	WFM[MCU]	Normal	WiFi intrusion active.
1708	5896	WiFi Intrusion Cleared	WFM[MCU]	Normal	WiFi intrusion cleared.
1709	5897	WiFi SCADA Disable	WFM[MCU]	Normal	WiFi disabled from SCADA.
170A	5898	WiFi SCADA Enable	WFM[MCU]	Normal	WiFi enabled from SCADA.
1751	5969	WiFi Test	WFM[MCU]	Normal	

1800	6144	GPS Enabled by IntelliLINK	UTL[MCU]	Normal	Data 1: Debug Data Data1 Type: ushort
1801	6145	GPS Disabled by IntelliLINK	UTL[MCU]	Normal	Data 1: Debug Data Data1 Type: ushort
1802	6146	GPS Not Active Time Source On	UTL[MCU]	Normal	GPS is not the active time source set. Data 1: Data1 Type: TimeSource Data 2: Data2 Type: GPSStatus Data 3: Data3 Type: FixQuality
1803	6147	GPS Not Active Time Source Off	UTL[MCU]	Normal	GPS is not the active time source cleared. Data 1: Data1 Type: TimeSource Data 2: Data2 Type: GPSStatus Data 3: Data3 Type: FixQuality
1804	6148	GPS Status Changed	UTL[MCU]	Normal	GPS Status Changed. Data 1: Data1 Type: TimeSource Data 2: Data2 Type: GPSStatus Data 3: Data3 Type: FixQuality Data 4: Data4 Type: OneHexByte
1900	6400	Loop Restoration Enabled	EVT[MCU]	Normal	Enable Loop Restoration.
1901	6401	Loop Restoration Disabled	EVT[MCU]	Normal	Prohibit Loop Restoration.
1902	6402	Loop Restoration Ready	EVT[MCU]	Normal	Loop Restoration is Ready.
1903	6403	Loop Restoration Not Ready	EVT[MCU]	Normal	Loop Restoration is Not Ready.
1904	6404	Loop Restoration Timing	EVT[MCU]	Normal	Loop Restoration is Timing.
1905	6405	Loop Restoration Not Timing	EVT[MCU]	Normal	Loop Restoration is Not Timing.
1906	6406	Loop Restoration Reconfigured	EVT[MCU]	Normal	Loop Restoration is Reconfigured.
1907	6407	Loop Restoration Not Reconfigured	EVT[MCU]	Normal	Loop Restoration is Not Reconfigured.
1908	6408	Skip Test On Close Command Rejected	LRM[MCU]	Normal	Data 1: Test Number Data1 Type: ushort Data 2: DPR Delayed Return Code Data2 Type: ushort Data 3: DPR Return Code Data3 Type: ushort
1909	6409	Result of Test Indeterminate	LRM[MCU]	Normal	Data 1: Test Number Data1 Type: ushort
190A	6410	Loop Restoration Clear Manual Op	LRM[MCU]	Normal	
190B	6411	Loop Restoration Close in Profile	EVT[MCU]	Normal	Data 1: Closing Profile Data1 Type: ushort
190C	6412	Max. Time For Loop Rest Reached	LRM[MCU]	Normal	
190D	6413	Manual Lever Reenable Detected	EVT[MCU]	Normal	

Definitions of Historic Events

190E	6414	LRM Manual Operation Detected	LRM[MCU]	Normal	
190F	6415	All Tests Performed	LRM[MCU]	Normal	
1910	6416	Suspend Test	LRM[MCU]	Normal	Data 1: Step Data1 Type: ushort Data 2: Test Number Data2 Type: ushort
1911	6417	Resume Test	LRM[MCU]	Normal	Data 1: Step Data1 Type: ushort Data 2: Test Number Data2 Type: ushort
1912	6418	Skip Test On No Voltage	LRM[MCU]	Normal	Data 1: Test Number Data1 Type: ushort
1913	6419	Cmd Rejected by ATX or Line Faulted	EVT[MCU]	Normal	Data 1: Command Rejected by ATX Data1 Type: ushort Data 2: Blocked by Synch Check Data2 Type: ushort Data 3: PulseClosing Detected Fault Data3 Type: ushort Data 4: Fault Detected in Closing Profile Data4 Type: ushort
1914	6420	Close Successful and GP Active	EVT[MCU]	Normal	
1915	6421	HLT Detected	LRM[MCU]	Normal	
1916	6422	GP Change While Timing Detected	LRM[MCU]	Normal	
1917	6423	Op Delayed by Low Energy Detected	LRM[MCU]	Normal	
1918	6424	Non-Trigger Lockout Detected	LRM[MCU]	Normal	
1919	6425	Tripped to Lockout Not Overcurrent	LRM[MCU]	Normal	Data 1: Fault Type Bits Data1 Type: ushort
191A	6426	Register Control Pt Unsuccess	LRM[MCU]	Extended	Data 1: Point Number Data1 Type: ushort Data 2: DNP Return Code Data2 Type: ushort
191B	6427	DPR Command Unsuccessful	LRM[MCU]	Extended	Data 1: DPR Return Code Data1 Type: ushort Data 2: DPR Delayed Return Code Data2 Type: ushort Data 3: DPR Function Data3 Type: ushort Data 4: DPR Function Arg Data4 Type: ushort
191C	6428	Loop Close Blocked - Underfrequency On	EVT[MCU]	Normal	Loop Restoration Close Blocked By Underfrequency.
191D	6429	Loop Close Blocked - Underfrequency Off	EVT[MCU]	Normal	Loop Restoration Close Not Blocked By Underfrequency.
191E	6430	HLT Removed	LRM[MCU]	Normal	
1F00	7936	Prohibit Rest. Xmit Status Active	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F01	7937	Enable Rest. Xmit Status Active	RTL[MCU]	Normal	

					Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F02	7938	Prohibit Rest. Xmit Status Clear	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F03	7939	Enable Rest. Xmit Status Clear	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F04	7940	Error Registering Team Peer	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F05	7941	P2P message response	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F06	7942	Clr PR Status Control Pt Rcvd	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F07	7943	Clr Rest. Enab Stat Ctrl Pt Rcvd	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F08	7944	Prohibit Rest. Sent to Remote Dev	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F09	7945	Transfer Trip Sent to Remote Dev	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F0A	7946	Error sending P.R. to Rmt Dev	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort

Definitions of Historic Events

1F0B	7947	Error sending Xfer Trip to Rmt Dev	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F0C	7948	Transfer Trip Enabled	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F0D	7949	Transfer Trip Disabled	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F0E	7950	Clearing Prohib Rest Blocked	DAT[MCU]	All	Clearing Prohibit Rest. Blocked Data 1: Debug Data Data1 Type: ushort Data 2: Debug Data Data2 Type: ushort Data 3: Debug Data Data3 Type: ushort Data 4: Debug Data Data4 Type: ClearPRBlocker
1F0F	7951	DNP3 Response received	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F10	7952	P.R. sent from local conditions	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F11	7953	Enable Restoration sent to RTU	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F12	7954	RMT Xmit PR Enabd Local Conditions	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F13	7955	RMT Xmit PR Disabd Local Conditions	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F14	7956	RMT Xmit PR Enabd for SCADA	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort

					Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F15	7957	RMT Xmit PR Disabd for SCADA	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
1F16	7958	Clear PR on HLT removal disabled	RTL[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
2001	8193	SUP: Firmware Update Commit	SUP[MCU]	Normal	Firmware Update Commit.
2002	8194	SUP: Firmware Update Complete	SUP[MCU]	Normal	Firmware Update Complete.
2003	8195	SUP: No Manifest File	SUP[MCU]	Normal	No Manifest File.
2004	8196	SUP: Missing Firmware - Image	SUP[MCU]	Normal	Missing Firmware - Image. Data 1: Data1 Type: SUPFwuImage
2005	8197	SUP: Missing Firmware - Version	SUP[MCU]	Normal	Missing Firmware - Version. Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
2006	8198	SUP: Invalid Runtime Version - Image	SUP[MCU]	Normal	Invalid Runtime Version - Image. Data 1: Data1 Type: SUPFwuImage
2007	8199	SUP: Invalid Version - Runtime Version	SUP[MCU]	Normal	Invalid Runtime Version - Runtime Version. Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
2008	8200	SUP: Invalid Version - Manifest Version	SUP[MCU]	Normal	Invalid Runtime Version - Manifest Version. Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
200A	8202	DSP and/or M3 watchdog t.o. detected	SUP[MCU]	Normal	Invalid Runtime Version - Manifest Version. Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
200B	8203	SUP: General Error	SUP[MCU]	Normal	Data 1: Data1 Type: SUPGeneralErrorCode
200C	8204	SUP: Started	SUP[MCU]	Normal	Data 1: Data1 Type: SUPStartReason

Definitions of Historic Events

2101	8449	Subsystem Fatal Error	ECM[MCU]	Normal	Data 1: Data1 Type: ECMFatalError
2102	8450	IPC Ack Timeout	ECM[MCU]	Normal	
2103	8451	IPC Message Id Unknown	ECM[MCU]	Normal	
2104	8452	WiFi State Change Error	ECM[MCU]	Normal	
2105	8453	Pairing Device Status Change	ECM[MCU]	Normal	Data 1: Data1 Type: PDChangeStatus
2106	8454	Data Storage Error	ECM[MCU]	Normal	
2107	8455	Data Retrieval Error	ECM[MCU]	Normal	
2108	8456	Ethernet Config Error	ECM[MCU]	Normal	
2201	8705	GOOSE Subscription	GOS[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: EvtBoolean
2202	8706	GOOSE Publication	GOS[MCU]	Normal	Data 1: Data1 Type: ushort
2203	8707	GOOSE Communication Loss	GOS[MCU]	Normal	Data 1: Data1 Type: Hexushort Data 2: Data2 Type: ushort Data 3: Data3 Type: GooseCommLossReason
2204	8708	GOOSE Communication Restored	GOS[MCU]	Normal	Data 1: Data1 Type: Hexushort Data 2: Data2 Type: ushort
2205	8709	TCC Shift	GOS[MCU]	Normal	Data 1: Data1 Type: Hexushort
2206	8710	GOOSE Direct Transfer Trip	GOS[MCU]	Normal	Data 1: Data1 Type: Hexushort
2207	8711	GOOSE Config is Invalid	GOS[MCU]	Normal	Data 1: Data1 Type: GooseConfigFile Data 2: Data2 Type: GooseConfigInvalid
2211	8721	GOOSE Feature Enabled	GOS[MCU]	Normal	Data 1: Data1 Type: GooseDeactivationSource
2212	8722	GOOSE Feature Disabled	GOS[MCU]	Normal	Data 1: Data1 Type: GooseDeactivationSource
2213	8723	GOOSE Comms Loss Cleared	GOS[MCU]	Normal	
2214	8724	GOOSE Test Mode Enable Status	GOS[MCU]	Normal	Data 1: Data1 Type: SpecExtWFCCCommandArg
2215	8725	GOOSE Comms Loss Active	GOS[MCU]	Normal	
2216	8726	GOOSE DPR Error	GOS[MCU]	Normal	

					Data 1: Data1 Type: DPRError Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
2217	8727	GOOSE Communication Loss Notify Timer Error	GOS[MCU]	Normal	Data 1: Data1 Type: ushort
2301	8961	PMU Performance Class Enabled	PMU[MCU]	Normal	Data 1: Data1 Type: PMUClass Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
2302	8962	PMU Performance Class Disabled	PMU[MCU]	Normal	Data 1: Data1 Type: PMUClass Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
2303	8963	PMU Data Transmission Enabled	PMU[MCU]	Normal	Data 1: Data1 Type: PMUClass Data 2: IP addr first half Data2 Type: Hexushort Data 3: IP addr second half Data3 Type: Hexushort Data 4: Port Number Data4 Type: Hexushort
2304	8964	PMU Data Transmission Disabled	PMU[MCU]	Normal	Data 1: Data1 Type: PMUClass Data 2: IP addr first half Data2 Type: Hexushort Data 3: IP addr second half Data3 Type: Hexushort Data 4: Port Number Data4 Type: Hexushort
2305	8965	PMU Data Concentrator Cmd Rcvd	PMU[MCU]	Normal	Data 1: Data1 Type: PMUDataConcentratorCmd Data 2: Data2 Type: PMUErrorCode Data 3: Data3 Type: ushort Data 4: Data4 Type: Hexushort
2306	8966	PMU Not Ready	PMU[MCU]	Normal	Data 1: Data1 Type: PMUNotReady Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
2307	8967	PMU Ready	PMU[MCU]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
7218	29208	NETX make runner source	NET[MCU]	Normal	Data 1: Size of runner in RTU addresses Data1 Type: RTUAddress Data 2: Runner RTU lists Data2 Type: RTUlists Data 3: Runner node lists Data3 Type: Nodelists Data 4: Null Data4 Type: ushort
7219	29209	NETX make runner RTUs	NET[MCU]	Normal	Data 1: Size of runner in RTU addresses Data1 Type: RTUAddress Data 2: Runner RTU lists Data2 Type: RTUlists Data 3: Runner node lists Data3 Type: Nodelists Data 4: Null Data4 Type: ushort

Definitions of Historic Events

721A	29210	NETX make runner destination	NET[MCU]	Normal	<p>Data 1: Size of runner in RTU addresses Data1 Type: RTUAddress</p> <p>Data 2: Runner RTU lists Data2 Type: RTUlists</p> <p>Data 3: Runner node lists Data3 Type: Nodelists</p> <p>Data 4:Null Data4 Type: ushort</p>
721B	29211	NETX begin sending activation runners	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort</p> <p>Data 2:Null Data2 Type: ushort</p> <p>Data 3:Null Data3 Type: ushort</p> <p>Data 4:Null Data4 Type: ushort</p>
721C	29212	NETX activation object runner sent	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort</p> <p>Data 2: RTU Address Data2 Type: RTUAddress</p> <p>Data 3: Data Length Data3 Type: DataLength</p> <p>Data 4:Null Data4 Type: ushort</p>
721D	29213	NETX forward activate runners	NET[MCU]	Normal	<p>Data 1: Runner Number Data1 Type: RunnerNumber</p> <p>Data 2: Runner Index Number Data2 Type: RunnerIndex</p> <p>Data 3: Type of netlist distribution[RunnerIndex] Data3 Type: ushort</p> <p>Data 4:Null Data4 Type: ushort</p>
721E	29214	NETX forward activation runner index	NET[MCU]	Normal	<p>Data 1: Runner Index Number Data1 Type: RunnerIndex</p> <p>Data 2: Null Data2 Type: ushort</p> <p>Data 3: Null Data3 Type: ushort</p> <p>Data 4: Null Data4 Type: ushort</p>
721F	29215	NETX forward activation runner source	NET[MCU]	Normal	<p>Data 1: RTU Address Data1 Type: RTUAddress</p> <p>Data 2: Source Net Node ID Data2 Type: SrcNodeID</p> <p>Data 3: Destination Net Node ID Data3 Type: DestNodeID</p> <p>Data 4:Null Data4 Type: ushort</p>
7220	29216	NETX forward activation runner sent ok	NET[MCU]	Normal	<p>NETX forwarding activation runner sent ok</p> <p>Data 1: Runner Index Number Data1 Type: RunnerIndex</p> <p>Data 2: RTU Address Data2 Type: RTUAddress</p> <p>Data 3: Data Length Data3 Type: DataLength</p> <p>Data 4:Null Data4 Type: ushort</p>
7221	29217	NETX Feeder Net is activated	NET[MCU]	Normal	<p>Data 1: Our position in the Node Index Table Data1 Type: NodeIndex</p> <p>Data 2: Feeder Net Ids in the array Data2 Type: FeederNetID</p> <p>Data 3: Runner Index Data3 Type: RunnerIndex</p> <p>Data 4:Null Data4 Type: ushort</p>
7222	29218	NETX Feeder Net added to division list	NET[MCU]	Normal	<p>Data 1: VM table Index Data1 Type: VMIndex</p> <p>Data 2: Feeder Net Ids in the array Data2 Type: FeederNetID</p> <p>Data 3: Feeder Net CRCs Data3 Type: FeederNetCRC</p> <p>Data 4:Null Data4 Type: ushort</p>
7223	29219	NETX accept activation runner	NET[MCU]	Normal	

Definitions of Historic Events

					<p>Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Runner index Data2 Type: RunnerIndex Data 3: Type of netlist distribution Data3 Type: FeederNetObjType Data 4: Null Data4 Type: ushort</p>
7224	29220	NETX accept activation runner failed	NET[MCU]	Normal	<p>Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Identify Actual Runner Data2 Type: RunnerNumber Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort</p>
7225	29221	NETX accept activation runner result	NET[MCU]	Normal	<p>Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Identify Actual Runner Data2 Type: RunnerNumber Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort</p>
7226	29222	NETX Make Nodes start	NET[MCU]	Normal	<p>Data 1: Runner Number Data1 Type: FeederNetID Data 2: Local RTU Address Data2 Type: RTUAddress Data 3: Number of associated payload elements Data3 Type: NumPayLoad Data 4: Null Data4 Type: ushort</p>
7227	29223	NETX Make Nodes complete	NET[MCU]	Normal	<p>Data 1: Number of associated payload elements Data1 Type: NumPayLoad Data 2: Number of Node IDs in the list Data2 Type: NumNodeID Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort</p>
7228	29224	NETX add nodes start	NET[MCU]	Normal	<p>Data 1: Null Data1 Type: ushort Data 2: Team Member Number Data2 Type: TeamRecord Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4: Null Data4 Type: ushort</p>
7229	29225	NETX add node id	NET[MCU]	Normal	<p>Data 1: Node ID Data1 Type: SrcNodeID Data 2: Switch Data2 Type: SWnum Data 3: Side information related to the switch Data3 Type: SideInfo Data 4: Null Data4 Type: ushort</p>
722A	29226	NETX add a new node	NET[MCU]	Normal	<p>Data 1: Feeder Net ID Data1 Type: FeederNetID Data 2: Number of Node Index entries in the Node Table Data2 Type: NumNodeIndex Data 3: Number of Node IDs in list Data3 Type: NumNodeID Data 4: Null Data4 Type: ushort</p>
722B	29227	NETX report adjacent NetList start	NET[MCU]	Normal	<p>Data 1: Left Node Index Data1 Type: NodeIndex Data 2: Null Data2 Type: ushort Data 3: Feeder Net CRC of the left Data3 Type: FeederNetCRC Data 4: Null Data4 Type: ushort</p>
722C	29228	NETX report adjacent to runner	NET[MCU]	Normal	

Definitions of Historic Events

		side1			<p>Data 1: Tie delivers an adjacent NL to a Runner Source for delivery <i>Data1 Type:</i> RunnerType Data 2: Destination Feeder Net ID <i>Data2 Type:</i> FeederNetID Data 3: Destination Feeder Net CRC <i>Data3 Type:</i> FeederNetCRC Data 4:Null <i>Data4 Type:</i> ushort</p>
722D	29229	NETX report adj netlist obj send to s1	NET[MCU]	Normal	<p>NETX report adjacent netlist object send to side1</p> <p>Data 1: Number of teams <i>Data1 Type:</i> NumOfTeams Data 2: Destination RTU Address <i>Data2 Type:</i> RTUAddress Data 3: Length of Feeder Net description method <i>Data3 Type:</i> detsiz Data 4:Null <i>Data4 Type:</i> ushort</p>
722E	29230	NETX Adj fdernet netlist propagation done	NET[MCU]	Normal	<p>NETX Adj feedernet netlist propagation done</p> <p>Data 1: Adjacent FeederNet's CRC <i>Data1 Type:</i> Hexushort Data 2: Returned netlist runners of the adj feedernet <i>Data2 Type:</i> NumRunners Data 3: Netlist runners in the adj feedernet <i>Data3 Type:</i> NumRunners Data 4: Sent netlist runners of adj feedernet <i>Data4 Type:</i> NumRunners</p>
7230	29232	NETX send adj Feeder Net Runner's qty	NET[MCU]	Normal	<p>NETX send adjacent Feeder Net Runner's qty</p> <p>Data 1: This is the runner's source device <i>Data1 Type:</i> DeviceNumber Data 2: Runner Source row number in nnet <i>Data2 Type:</i> NetViewRowNum Data 3: Number of runners <i>Data3 Type:</i> NumRunners Data 4:Null <i>Data4 Type:</i> ushort</p>
7231	29233	NETX send adj FdrNet runner's FdrNet ID	NET[MCU]	Normal	<p>NETX send adjacent Feeder Net runner's feedernetID</p> <p>Data 1: Runner Index <i>Data1 Type:</i> RunnerIndex Data 2: Feeder Net ID <i>Data2 Type:</i> FeederNetID Data 3: Feeder Net CRC <i>Data3 Type:</i> FeederNetCRC Data 4:Null <i>Data4 Type:</i> ushort</p>
7232	29234	NETX send adj Feeder Net runner's type	NET[MCU]	Normal	<p>NETX send adjacent Feeder Net runner's type</p> <p>Data 1: Runner Type <i>Data1 Type:</i> RunnerType Data 2: Feeder Net ID <i>Data2 Type:</i> FeederNetID Data 3: Feeder Net CRC <i>Data3 Type:</i> FeederNetCRC Data 4:Null <i>Data4 Type:</i> ushort</p>
7233	29235	NETX send adj FNet runner's adj FNet ID	NET[MCU]	Normal	<p>NETX send adjacent Feeder Net runner's adj FeederNetID</p> <p>Data 1: Adjacent Feeder Net ID <i>Data1 Type:</i> FeederNetID Data 2: Adjacent Feeder Net CRC <i>Data2 Type:</i> FeederNetCRC Data 3: Number of teams <i>Data3 Type:</i> NumOfTeams Data 4:Null <i>Data4 Type:</i> ushort</p>
7234	29236	NETX send adj Feeder Net runner's rtu	NET[MCU]	Normal	<p>NETX send adjacent Feeder Net runner's rtu</p> <p>Data 1: Runner Number <i>Data1 Type:</i> RunnerNumber Data 2: RTU Address <i>Data2 Type:</i> RTUAddress Data 3: Length of Feeder Net description method <i>Data3 Type:</i> detsiz Data 4: Null <i>Data4 Type:</i> ushort</p>
7235	29237	NETX request netlist ok	NET[MCU]	Normal	<p>Data 1: Runner Number <i>Data1 Type:</i> RunnerNumber Data 2: Net destination RTU Address <i>Data2 Type:</i> RTUAddress Data 3: Length of Feeder Net description method <i>Data3 Type:</i></p>

					dctsiz Data 4: Null Data4 Type: ushort
7236	29238	NETX reply Feeder Net req: crc is bad	NET[MCU]	Normal	NETX reply Feeder Net request, crc is bad Data 1: Feeder Net ID Data1 Type: FeederNetID Data 2: Feeder Net CRC Data2 Type: FeederNetCRC Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4:Null Data4 Type: ushort
7237	29239	NETX reply request sent ok	NET[MCU]	Normal	Data 1: Feeder Net ID Data1 Type: FeederNetID Data 2: Destination RTU address Data2 Type: RTUAddress Data 3: Data Length Data3 Type: DataLength Data 4:Null Data4 Type: ushort
7238	29240	NETX reply Feeder Net request not found	NET[MCU]	Normal	Data 1: Feeder Net ID Data1 Type: FeederNetID Data 2: Feeder Net CRC Data2 Type: FeederNetCRC Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
7239	29241	NETX requested Feeder Net is a duplicate	NET[MCU]	Normal	Data 1: Feeder Net ID Data1 Type: FeederNetID Data 2: Incoming Feeder Net ID Data2 Type: FeederNetID Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
723A	29242	NETX requested Feeder Net good	NET[MCU]	Normal	Data 1: Netx is out of memory Data1 Type: ErrorCodeNETX Data 2: NetxFindspace(incoming number of teams) Data2 Type: NumOfTeams Data 3: Incoming number of teams Data3 Type: NumOfTeams Data 4:Null Data4 Type: ushort
723B	29243	NETX save requested Feeder Net ID	NET[MCU]	Normal	Data 1: Incoming Feeder Net ID Data1 Type: FeederNetID Data 2: Incoming Feeder Net CRC Data2 Type: FeederNetCRC Data 3: Incoming number of teams Data3 Type: NumOfTeams Data 4:Null Data4 Type: ushort
723C	29244	NETX reequested Feeder Net saved ok	NET[MCU]	Normal	Data 1: Size of team array Data1 Type: ushort Data 2: Size of teamsp data Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
723D	29245	NETX forward Feeder Net runner	NET[MCU]	Normal	Data 1: Identify Actual Runner Data1 Type: RunnerNumber Data 2: Runner Index Data2 Type: RunnerIndex Data 3: Type of netlist distribution[RunnerIndex] Data3 Type: FeederNetObjType Data 4:Null Data4 Type: ushort
723E	29246	NETX's forward runner's index	NET[MCU]	Normal	Data 1: Incoming Runner's index Data1 Type: RunnerIndex Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort

Definitions of Historic Events

723F	29247	NETX forward Feeder Net destination rtu	NET[MCU]	Normal	Data 1: RTU Address Data1 Type: RTUAddress Data 2: Source Node ID Data2 Type: SrcNodeID Data 3: Destination Node ID Data3 Type: DestNodeID Data 4: Null Data4 Type: ushort
7240	29248	NETX forward Feeder Net rnr sent: OK	NET[MCU]	Normal	NETX forward FeederNet runner sent,ok Data 1: Runner Index Data1 Type: RunnerIndex Data 2: RTU address Data2 Type: RTUAddress Data 3: Data Length Data3 Type: DataLength Data 4: Null Data4 Type: ushort
7243	29251	NETX forward adjacent Feeder Net sent ok	NET[MCU]	Normal	Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Length of Feeder Net description method Data3 Type: dtsiz Data 4: Null Data4 Type: ushort
7244	29252	NETX save adjacent Feeder Net runner cvd	NET[MCU]	Normal	Data 1: Feeder Net ID Data1 Type: FeederNetID Data 2: Feeder Net CRC Data2 Type: FeederNetCRC Data 3: Number of teams Data3 Type: NumOfTeams Data 4: Null Data4 Type: ushort
7245	29253	NETX save adjacent Feeder Net IDs	NET[MCU]	Normal	Data 1: Adjacent Feeder Net ID Data1 Type: FeederNetID Data 2: Adjacent Feeder Net CRC Data2 Type: FeederNetCRC Data 3: Number of teams Data3 Type: NumOfTeams Data 4: Null Data4 Type: ushort
7246	29254	NETX save adjacent Feeder Net node ID	NET[MCU]	Normal	Data 1: Feeder Net Node ID Data1 Type: SrcNodeID Data 2: Node Index Data2 Type: NodeIndex Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort
7247	29255	NETX save adj FeederNet dup chk hit	NET[MCU]	Normal	NETX save adjacent Feeder Net duplicate check hit Data 1: Feeder Net ID in the array Data1 Type: FeederNetID Data 2: Adjacent Feeder Net ID Data2 Type: FeederNetID Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort
7249	29257	NETX save adj Feeder Net number of teams	NET[MCU]	Normal	NETX save adjacent Feeder Net number of teams Data 1: Adjacent Number of Teams Data1 Type: NumOfTeams Data 2: Starting Index in the array Data2 Type: FeederNetIndex Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort
724A	29258	NETX save adj FNet; our num of teams	NET[MCU]	Normal	NETX save adjacent Feeder Net, our num of teams Data 1: Our number of teams Data1 Type: NumOfTeams Data 2: Starting Index in the array Data2 Type: FeederNetIndex Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort
724E	29262	NETX adjacent FNet added to division net	NET[MCU]	Normal	NETX adjacent Feeder Net added to division net Data 1: VM table index for this Feeder Net ID Data1 Type: VMIndex

Definitions of Historic Events

					<p>Data 2: Feeder Net ID <i>Data2 Type:</i> FeederNetID Data 3: Feeder Net CRC <i>Data3 Type:</i> FeederNetCRC Data 4:Null <i>Data4 Type:</i> ushort</p>
724F	29263	NETX save adjacent Feeder Net conflict	NET[MCU]	Normal	<p>Data 1: Feeder Net ID in the array <i>Data1 Type:</i> FeederNetID Data 2: Adjacent Feeder Net ID <i>Data2 Type:</i> FeederNetID Data 3:Null <i>Data3 Type:</i> ushort Data 4:Null <i>Data4 Type:</i> ushort</p>
7250	29264	NETX save adj FeederNet node indx failed	NET[MCU]	Normal	<p>NETX save adjacent Feeder Net node index failed</p> <p>Data 1: Node Index <i>Data1 Type:</i> NodeIndex Data 2: Feeder Net ID <i>Data2 Type:</i> FeederNetID Data 3: Feeder Net CRC <i>Data3 Type:</i> FeederNetCRC Data 4:Null <i>Data4 Type:</i> ushort</p>
7251	29265	NETX save Feeder Net runner recieved	NET[MCU]	Normal	<p>Data 1: Feeder Net ID <i>Data1 Type:</i> FeederNetID Data 2: Feeder Net CRC <i>Data2 Type:</i> FeederNetCRC Data 3: Number of teams <i>Data3 Type:</i> NumOfTeams Data 4:Null <i>Data4 Type:</i> ushort</p>
7252	29266	NETX save Feeder Net runner's nodeindex	NET[MCU]	Normal	<p>Data 1: Incoming Feeder Net ID <i>Data1 Type:</i> FeederNetID Data 2: Incoming Feeder Net CRC <i>Data2 Type:</i> FeederNetCRC Data 3: Node Index <i>Data3 Type:</i> NodeIndex Data 4:Null <i>Data4 Type:</i> ushort</p>
7253	29267	NETX save Feeder Net's dup replaced	NET[MCU]	Normal	<p>NETX save Feeder Net's duplicate replaced</p> <p>Data 1: Feeder Net ID in the array <i>Data1 Type:</i> FeederNetID Data 2: Incoming Feeder Net ID <i>Data2 Type:</i> FeederNetID Data 3:Null <i>Data3 Type:</i> ushort Data 4:Null <i>Data4 Type:</i> ushort</p>
7254	29268	NETX save Feeder Net's present status	NET[MCU]	Normal	<p>Data 1: Feeder Net ID in the array <i>Data1 Type:</i> FeederNetID Data 2: Incoming Feeder Net ID <i>Data2 Type:</i> FeederNetID Data 3:Null <i>Data3 Type:</i> ushort Data 4:Null <i>Data4 Type:</i> ushort</p>
725A	29274	NETX save Feeder Net runner success	NET[MCU]	Normal	<p>Data 1: Node Index <i>Data1 Type:</i> NodeIndex Data 2: Left Node/Right Node Index <i>Data2 Type:</i> NodeIndex Data 3: Incoming Feeder Net ID <i>Data3 Type:</i> FeederNetID Data 4:Null <i>Data4 Type:</i> ushort</p>
725B	29275	NETX save Feeder Net's both sides check	NET[MCU]	Normal	<p>Data 1: Incoming Node ID <i>Data1 Type:</i> SrcNodeID Data 2: Team Member Count <i>Data2 Type:</i> ushort Data 3: Node Index <i>Data3 Type:</i> NodeIndex Data 4:Null <i>Data4 Type:</i> ushort</p>
725C	29276	NETX save Feeder Net to our side	NET[MCU]	Normal	<p>Data 1: FeederNetID[NodeIndex] <i>Data1 Type:</i> FeederNetID Data 2: FeederNetID[otherIndex] <i>Data2 Type:</i> FeederNetID Data 3: Node Index <i>Data3 Type:</i> NodeIndex Data 4:Null <i>Data4 Type:</i> ushort</p>
725D	29277	NETX saved Feeder Net added to the	NET[MCU]	Normal	

Definitions of Historic Events

		index			<p>Data 1: Node Index Data1 Type: NodeIndex Data 2: Incoming Feeder Net ID Data2 Type: FeederNetID Data 3: Incoming Feeder Net CRC Data3 Type: FeederNetCRC Data 4:Null Data4 Type: ushort</p>
725F	29279	NETX saved FNet's nodeindx has failed	NET[MCU]	Normal	<p>NETX saved Feeder Net's node index has failed</p> <p>Data 1: Node Index Data1 Type: NodeIndex Data 2: Feeder Net ID Data2 Type: FeederNetID Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4: Null Data4 Type: ushort</p>
7261	29281	NETX accept the Feeder Net runner	NET[MCU]	Normal	<p>Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Identify actual runner Data2 Type: RunnerNumber Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort</p>
7263	29283	NETX register DNP Address List Size	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort</p>
7264	29284	NETX communication check runner sent ok	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: RTU Address Data2 Type: RTUAddress Data 3: Size of received runner in Bytes Data3 Type: RunnerSize Data 4:Null Data4 Type: ushort</p>
7265	29285	NETX get communication chk runner number	NET[MCU]	Normal	<p>NETX get communication check runner number</p> <p>Data 1: Runner Number Data1 Type: RunnerNumber Data 2:Null Data2 Type: ushort Data 3: Number of associated payload elements Data3 Type: NumPayLoad Data 4:Null Data4 Type: ushort</p>
7266	29286	NETX comm chk rnr's size is mismatched	NET[MCU]	Normal	<p>NETX communication check runner's size is mismatched</p> <p>Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Object Length Data2 Type: DataLength Data 3: Size of recieved runner in Bytes Data3 Type: RunnerSize Data 4:Null Data4 Type: ushort</p>
7267	29287	NETX get communication chk runner index	NET[MCU]	Normal	<p>NETX get communication check runner index</p> <p>Data 1: Size of recieved runner in Bytes Data1 Type: RunnerSize Data 2:Null Data2 Type: ushort Data 3: Runner Index Data3 Type: RunnerIndex Data 4:Null Data4 Type: ushort</p>
7268	29288	NETX get communication chk rnr's rtu add	NET[MCU]	Normal	<p>NETX get communication check runner's rtu address</p> <p>Data 1: RTU Address Data1 Type: RTUAddress Data 2: Our local RTU Address Data2 Type: RTUAddress Data 3: Runner Index Data3 Type: RunnerIndex Data 4:Null Data4 Type: ushort</p>
7269	29289	NETX get comm chk rnr's dest rtu	NET[MCU]	Normal	<p>NETX get communication check runner's destination rtu</p> <p>Data 1: RTU Address Data1 Type: RTUAddress Data 2: Our local RTU Address Data2 Type: RTUAddress Data 3: Runner Index Data3 Type: RunnerIndex Data 4:Null Data4 Type: ushort</p>

726A	29290	NETX get comm chkrrnr rnr internal node	NET[MCU]	Normal	NETX get communication checkrunner runner internal nodes Data 1: RTU Address Data1 Type: RTUAddress Data 2: Runner Index Data2 Type: RunnerIndex Data 3: Node Count Data3 Type: NodeCount Data 4:Null Data4 Type: ushort
726C	29292	NETX get comm chk runner rtu address	NET[MCU]	Normal	NETX get communication check runner rtu address Data 1: RTU Address Data1 Type: RTUAddress Data 2: Our local RTU Address Data2 Type: RTUAddress Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
726D	29293	NETX get comm chk rnr indx fault	NET[MCU]	Normal	NETX get communication check runner index fault Data 1: Size of the recived runner in Bytes Data1 Type: RunnerSize Data 2:Null Data2 Type: ushort Data 3: Runner Index Data3 Type: RunnerIndex Data 4:Null Data4 Type: ushort
726E	29294	NETX begin forwarding comm chk rnr	NET[MCU]	Normal	NETX begin forwarding communication check runner Data 1: Identify Actual Runner Number Data1 Type: RunnerNumber Data 2:Null Data2 Type: ushort Data 3: Size of runner in RTU addresses Data3 Type: RTUAddress Data 4:Null Data4 Type: ushort
726F	29295	NETX forwarding comm check rnr sent ok	NET[MCU]	Normal	NETX forwarding communication check runner sent ok Data 1:Null Data1 Type: ushort Data 2: RTU Address Data2 Type: RTUAddress Data 3: Size of recived runner in Bytes Data3 Type: RunnerSize Data 4:Null Data4 Type: ushort
7270	29296	NETX accept communication check runner	NET[MCU]	Normal	 Data 1: Runner Number Data1 Type: RunnerNumber Data 2:Null Data2 Type: ushort Data 3: Size of runner in RTU Addresses Data3 Type: RTUAddress Data 4:Null Data4 Type: ushort
7271	29297	NETX comm chk rnr size is mismatched	NET[MCU]	Normal	NETX communication check runner size is mismatched Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Data Length Data2 Type: DataLength Data 3: Size of recieved runner in Bytes Data3 Type: RunnerSize Data 4:Null Data4 Type: ushort
7272	29298	NETX communication check runner's index	NET[MCU]	Normal	 Data 1: Size of recieved runner in Bytes Data1 Type: RunnerSize Data 2:Null Data2 Type: ushort Data 3: Null Data3 Type: RunnerIndex Data 4:Null Data4 Type: ushort
7273	29299	NETX get comm check runner's data	NET[MCU]	Normal	NETX get communication check runner's data Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Object Length Data2 Type: DataLength Data 3: Size of runner in RTU Addresses Data3 Type: RTUAddress Data 4:Null Data4 Type: ushort

Definitions of Historic Events

7274	29300	NETX done accepting comm check runners	NET[MCU]	Normal	NETX done accepting communication check runners Data 1: Claimed in dispatch <i>Data1 Type: EntryPointDevice</i> Data 2: RTU Address <i>Data2 Type: RTUAddress</i> Data 3: Actual runner number from header <i>Data3 Type: RunnerNumber</i> Data 4:Null <i>Data4 Type: ushort</i>
7275	29301	NETX make table of runner number	NET[MCU]	Normal	Data 1: Runner Number <i>Data1 Type: RunnerNumber</i> Data 2: Feeder Net ID <i>Data2 Type: FeederNetID</i> Data 3: Feeder Net CRC <i>Data3 Type: FeederNetCRC</i> Data 4:Null <i>Data4 Type: ushort</i>
7276	29302	NETX make runner table count	NET[MCU]	Normal	Data 1:Null <i>Data1 Type: ushort</i> Data 2:Null <i>Data2 Type: ushort</i> Data 3: Runner Index <i>Data3 Type: RunnerIndex</i> Data 4:Null <i>Data4 Type: ushort</i>
7277	29303	NETX acpt data collection rnr bad count	NET[MCU]	Normal	NETX accept data collection runner bad count Data 1: Net Destination Node ID <i>Data1 Type: DestNodeID</i> Data 2: Runner Number <i>Data2 Type: RunnerNumber</i> Data 3: Runner's quantity <i>Data3 Type: RunnerQuantity</i> Data 4:Null <i>Data4 Type: ushort</i>
7278	29304	NETX data delivery rnr node index failed	NET[MCU]	Normal	NETX data delivery Runner node index failed Data 1: Node ID <i>Data1 Type: SrcNodeID</i> Data 2:Null <i>Data2 Type: ushort</i> Data 3:Null <i>Data3 Type: ushort</i> Data 4:Null <i>Data4 Type: ushort</i>
7279	29305	NETX data runner information	NET[MCU]	Normal	Data 1:Null <i>Data1 Type: ushort</i> Data 2:Null <i>Data2 Type: ushort</i> Data 3:Null <i>Data3 Type: ushort</i> Data 4:Null <i>Data4 Type: ushort</i>
727A	29306	NETX data runner source rtu	NET[MCU]	Normal	Data 1: The Normal State NetView length <i>Data1 Type: NETViewLength</i> Data 2: The local device number of the FN runner source device <i>Data2 Type: DeviceIndex</i> Data 3: RTU Address <i>Data3 Type: RTUAddress</i> Data 4:Null <i>Data4 Type: ushort</i>
727B	29307	NETX data runner selection	NET[MCU]	Normal	Data 1: Feeder Net ID <i>Data1 Type: FeederNetID</i> Data 2: Nnet row number <i>Data2 Type: NetViewRowNum</i> Data 3: The local device number of the FN runner source device <i>Data3 Type: DeviceIndex</i> Data 4:Null <i>Data4 Type: ushort</i>
727C	29308	NETX peer is registered already	NET[MCU]	Normal	Data 1: RTU Address <i>Data1 Type: RTUAddress</i> Data 2:Null <i>Data2 Type: ushort</i> Data 3: Registration Status <i>Data3 Type: RegistrationStatus</i> Data 4:Null <i>Data4 Type: ushort</i>

727D	29309	NETX peer is deregistered; reregistering	NET[MCU]	Normal	NETX peer is deregistered, re-registering Data 1: RTU Address Data1 Type: RTUAddress Data 2:Null Data2 Type: ushort Data 3: Registration Status Data3 Type: RegistrationStatus Data 4:Null Data4 Type: ushort
727E	29310	NETX dest device node indx failure	NET[MCU]	Normal	NETX destination device node index failure Data 1: Find this node in the NLTA arrays Data1 Type: IndexMngTable Data 2: VM table Index Data2 Type: VMIndex Data 3: Index into the substation list for Feeder Net "tree root"> Data3 Type: Substation Data 4:Null Data4 Type: ushort
7288	29320	NETX dispatch designer Feeder Net object	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
7289	29321	NETX dispatch FeederNet source and dest	NET[MCU]	Normal	NETX dispatch Feeder Net source and destination Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
728A	29322	NETX dispatch Feeder Net dest Node ID	NET[MCU]	Normal	NETX dispatch Feeder Net destination Node ID Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Incoming Feeder Net ID Data2 Type: FeederNetID Data 3: Incoming Feeder Net CRC Data3 Type: FeederNetCRC Data 4:Null Data4 Type: ushort
728B	29323	NETX dispatch Feeder Net delivery index	NET[MCU]	Normal	Data 1: Incoming Feeder Net ID Data1 Type: FeederNetID Data 2: Incoming Feeder Net CRC Data2 Type: FeederNetCRC Data 3: Runner Index Data3 Type: RunnerIndex Data 4:Null Data4 Type: ushort
728C	29324	NETX dispatch Feeder Net delivery save	NET[MCU]	Normal	Data 1: Destination Index Data1 Type: DestinationIndex Data 2: Runner Number Data2 Type: RunnerNumber Data 3: Size of runner in RTU Addresses Data3 Type: RTUAddress Data 4:Null Data4 Type: ushort
728E	29326	NETX dispatch comm chk source and dest	NET[MCU]	Normal	NETX dispatch communication check source and destination Data 1: Source RTU Adress Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
728F	29327	NETX dispatch comm check FeederNet ID	NET[MCU]	Normal	NETX dispatch communication check Feeder Net ID Data 1: Clamied in Dispatch Data1 Type: EntryPointDevice Data 2: Destination Index Data2 Type: DestinationIndex Data 3: Number of associated payload elements Data3 Type: NumPayLoad Data 4:Null Data4 Type: ushort

Definitions of Historic Events

7295	29333	NETX dispatch comm check sent to	NET[MCU]	Normal	NETX dispatch communication check sent to Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Feeder Net ID Data2 Type: FeederNetID Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4:Null Data4 Type: ushort
7296	29334	NETX dispatch comm check handled	NET[MCU]	Normal	NETX dispatch communication check handled Data 1: Runner Index Data1 Type: RunnerIndex Data 2: Null Data2 Type: ushort Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort
7297	29335	NETX dispatch netlist rqst src and dest	NET[MCU]	Normal	NETX dispatch netlist request source and destination Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
7298	29336	NETX dispatch netlist request FNet ID	NET[MCU]	Normal	NETX dispatch netlist request Feeder Net ID Data 1: Destination RTU Address Data1 Type: RTUAddress Data 2: FeederNetID Data2 Type: FeederNetID Data 3: FeederNetCRC Data3 Type: FeederNetCRC Data 4:Null Data4 Type: ushort
729A	29338	NETX dispatch primary rqst netlist resp	NET[MCU]	Normal	NETX dispatch primary request netlist response Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
729B	29339	NETX dispatch prim netlist src and dest	NET[MCU]	Normal	NETX dispatch primary netlist source and destination Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
729C	29340	NETX dispatch primary netlist source ID	NET[MCU]	Normal	Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Data Length Data2 Type: DataLength Data 3: Net source Node ID Data3 Type: SrcNodeID Data 4:Null Data4 Type: ushort
729D	29341	NETX dispatch primary netlist indx found	NET[MCU]	Normal	NETX dispatch primary netlist index found Data 1: Feeder Net ID Data1 Type: FeederNetID Data 2: Feeder Net CRC Data2 Type: FeederNetCRC Data 3: Runner Index Data3 Type: RunnerIndex Data 4:Null Data4 Type: ushort
729E	29342	NETX dispatch primary netlist indx nums	NET[MCU]	Normal	NETX dispatch primary netlist indexed numbers Data 1: Destination Index Data1 Type: DestinationIndex Data 2: Runner Number Data2 Type: RunnerNumber Data 3: Size of runner in RTU Addresses Data3 Type: RTUAddress Data 4:Null Data4 Type: ushort
72A0	29344	NETX dispatch newadj delivery rnr src ST	NET[MCU]	Normal	NETX dispatch new adjacent delivery runner source ST Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress

					Data 3: Net Destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
72A1	29345	NETX dispatch new adj delivery rnr done	NET[MCU]	Normal	NETX dispatch new adjacent delivery runner done Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72A4	29348	NETX dispatch adj netlist reporter src	NET[MCU]	Normal	NETX dispatch adjacent netlist reporter source Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Net destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
72A5	29349	NETX dispatch adj netlist report sending	NET[MCU]	Normal	NETX dispatch adjacent netlist reporter sending Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Number of actual data elements in DLV Data2 Type: NumDataElements Data 3: Net destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
72A8	29352	NETX dispat act Netlist rep fail to frwd	NET[MCU]	Normal	NETX dispatch Active Netlist reporter failed to forward Data 1: Source RTU Address Data1 Type: RTUAddress Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Net destination Node ID Data3 Type: DestNodeID Data 4:Null Data4 Type: ushort
72AA	29354	NETX state machine A state 01 arrival	NET[MCU]	Normal	 Data 1:Null Data1 Type: ushort Data 2: Waiting for IT Designer Data2 Type: StatusFeedbackArea Data 3: Null Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort
72AB	29355	NETX state machA state 01 depart FNet ID	NET[MCU]	Normal	NETX state machine A state 01 depart Feeder Net ID Data 1: Incoming Feeder Net ID from IntelliTeam Designer Data1 Type: FeederNetID Data 2: Incoming new Feeder Net CRC from IntelliTeam Designer Data2 Type: FeederNetCRC Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72AC	29356	NETX state machA state01 num of teams	NET[MCU]	Normal	NETX state machine A state 01 number of teams Data 1: Feeder Net incoming team array number of teams Data1 Type: INCNUMTEAM Data 2: Number of Device-Wire pairs from prep function Data2 Type: DeviceWirepairs Data 3: Number of Incoming Feeder Net Flags from ITD Data3 Type: FeederNetObjectFlags Data 4:Null Data4 Type: ushort
72AD	29357	NETX state machine A state 02 arrival	NET[MCU]	Normal	 Data 1:Null Data1 Type: ushort Data 2: Perform NETview Express analysis Data2 Type: StatusFeedbackArea Data 3: Waiting for IT Designer Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort
72AE	29358	NETX statemachA state02 arriv net stat	NET[MCU]	Normal	NETX state machine A state 02 arrival net status

Definitions of Historic Events

					<p>Data 1: Number of devices in the Feeder Net <i>Data1 Type:</i> NumDevicesinFN</p> <p>Data 2: Number of entries in row, one for device, one for wire <i>Data2 Type:</i> ExpressNetViewRow</p> <p>Data 3: Number of paths in this Feeder Net <i>Data3 Type:</i> NumPaths</p> <p>Data 4:Null <i>Data4 Type:</i> ushort</p>
72AF	29359	NETX state machine A state 03 arrival	NET[MCU]	Normal	<p>Data 1:Null <i>Data1 Type:</i> ushort</p> <p>Data 2: Create comm check runners and launch, then wait for return <i>Data2 Type:</i> StatusFeedbackArea</p> <p>Data 3: Perform NETview Express analysis <i>Data3 Type:</i> StatusFeedbackArea</p> <p>Data 4:Null <i>Data4 Type:</i> ushort</p>
72B0	29360	Register the peer RTU Address	NET[MCU]	Normal	<p>Data 1: Number of NETLIST runners in RunnerSource <i>Data1 Type:</i> NETLISTRNR</p> <p>Data 2: Size of runner in RTU addresses <i>Data2 Type:</i> RTUAddress</p> <p>Data 3: RTU address of the controls for each stop along the way <i>Data3 Type:</i> RTUAddress</p> <p>Data 4:Null <i>Data4 Type:</i> ushort</p>
72B1	29361	NetX statemachA state03 peer regs fail	NET[MCU]	Normal	<p>NetX state machine A state 03 peer registration has failed</p> <p>Data 1: Runner Number <i>Data1 Type:</i> RunnerNumber</p> <p>Data 2: RTU Address <i>Data2 Type:</i> RTUAddress</p> <p>Data 3: Registration Status <i>Data3 Type:</i> RegistrationStatus</p> <p>Data 4:Null <i>Data4 Type:</i> ushort</p>
72B2	29362	NetX statemachA state03 all peers regs	NET[MCU]	Normal	<p>NetX state machine A state 03 all peers registered</p> <p>Data 1: Common check runners timeout counter <i>Data1 Type:</i> ushort</p> <p>Data 2:Null <i>Data2 Type:</i> ushort</p> <p>Data 3: Number of NETLIST runners in RunnerSource <i>Data3 Type:</i> NETLISTRNR</p> <p>Data 4:Null <i>Data4 Type:</i> ushort</p>
72B3	29363	Netx state machA state 03 timeout failed	NET[MCU]	Normal	<p>Netx state machine A state 03 timeout failed</p> <p>Data 1: Common check of NETLIST runners in RunnerSource <i>Data1 Type:</i> ushort</p> <p>Data 2:Null <i>Data2 Type:</i> ushort</p> <p>Data 3: Number of NETLIST runners in RunnerSource <i>Data3 Type:</i> NETLISTRNR</p> <p>Data 4:Null <i>Data4 Type:</i> ushort</p>
72B4	29364	NETX statemachA state03 make rnr failed	NET[MCU]	Normal	<p>NETX state machine A state 03 make runners failed</p> <p>Data 1: NETV source normal <i>Data1 Type:</i> NETVSR</p> <p>Data 2:Null <i>Data2 Type:</i> ushort</p> <p>Data 3:Null <i>Data3 Type:</i> ushort</p> <p>Data 4:Null <i>Data4 Type:</i> ushort</p>
72B5	29365	NETX state machine A state 04 arrival	NET[MCU]	Normal	<p>Data 1:Null <i>Data1 Type:</i> ushort</p> <p>Data 2: go ahead and SEND the CCRs <i>Data2 Type:</i> StatusFeedbackArea</p> <p>Data 3: Create comm check runners and launch, then wait for</p>

					<p>return Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72B6	29366	NETX state machine A state 04 is done	NET[MCU]	Normal	<p>Data 1: Common check of NETLIST runners in RunnerSource Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3: Number of NETLIST runners in RunnerSource Data3 Type: NETLISTRNR Data 4:Null Data4 Type: ushort</p>
72B7	29367	NETX state machine A state 05 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Start FN delivery Runners Data2 Type: StatusFeedbackArea Data 3: go ahead and SEND the CCRs Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72B8	29368	NETX statemachA state 05 arrival FNet ID	NET[MCU]	Normal	<p>NETX state machine A state 05 arrival FeederNET ID Data 1: Feeder Net incoming team array number of teams Data1 Type: INCNUMTEAM Data 2: Number of NETLIST runners in RunnerSource Data2 Type: NETLISTRNR Data 3: Incoming new Feeder Net ID from IntelliTeam Designer Data3 Type: FeederNetID Data 4:Null Data4 Type: ushort</p>
72B9	29369	NETX state machine A state 06 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Send activate runners Data2 Type: StatusFeedbackArea Data 3: Start FN delivery Runners Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72BA	29370	NETX state machine A state 07 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Dashboard Feedback at the end of the successful deployment Data2 Type: StatusFeedbackArea Data 3: Send activate runners Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72BB	29371	NETX state machine A state 11 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Error Reporting Data2 Type: StatusFeedbackArea Data 3: Dashboard Feedback at the end of the successful deployment Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72BF	29375	NETX state machine C state 2 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Checks Registrations of the Destination RTU Addresses for the CCRs to be sent Data2 Type: StatusFeedbackArea Data 3: Error Reporting Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72C0	29376	NETX statemachC state2 regs is good	NET[MCU]	Normal	<p>NETX state machine C state 2 registration is good Data 1: Runner Number Data1 Type: RunnerNumber Data 2: RTU Address Data2 Type: RTUAddress</p>

Definitions of Historic Events

					Data 3: Registration Status Data3 Type: RegistrationStatus Data 4: Null Data4 Type: ushort
72C1	29377	NETX state machC state 2 regs failed	NET[MCU]	Normal	NETX state machine C state 2 registration failed Data 1: Runner Number Data1 Type: RunnerNumber Data 2: RTU Address Data2 Type: RTUAddress Data 3: Registration Status Data3 Type: RegistrationStatus Data 4: Null Data4 Type: ushort
72C2	29378	NETX state machine C state 02 is done	NET[MCU]	Normal	 Data 1: Null Data1 Type: ushort Data 2: Current state of machine C State 2 Data2 Type: StatusFeedbackArea Data 3: Previous state of machine C State 2 Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort
72C3	29379	NETX state machine D state 01 Arrival	NET[MCU]	Normal	 Data 1: Null Data1 Type: ushort Data 2: Idle state waiting for management Sequence to be initiated upon need Data2 Type: StatusFeedbackArea Data 3: Null Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort
72C4	29380	NETX state machine D state 02 Arrival	NET[MCU]	Normal	 Data 1: Null Data1 Type: ushort Data 2: Registers the RTU of the control that sent the Netlist Reporter Runner to us Data2 Type: StatusFeedbackArea Data 3: Idle state waiting for management Sequence to be initiated upon need Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort
72C5	29381	NETX state machD state 2 registered DNP	NET[MCU]	Normal	NETX state machine D state 2 registered DNP Data 1: RTU Address Data1 Type: RTUAddress Data 2: Null Data2 Type: ushort Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort
72C6	29382	NETX state machine D state 3 arrival	NET[MCU]	Normal	 Data 1: Null Data1 Type: ushort Data 2: Checks on and waits for successful registration of the DNP Address from D0 Data2 Type: StatusFeedbackArea Data 3: Registers the RTU of the control that sent the Netlist Reporter Runner to us Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort
72C7	29383	NETX state machD state 03 regs failed	NET[MCU]	Normal	NETX state machine D state 03 registration failed Data 1: RTU Address Data1 Type: RTUAddress Data 2: Null Data2 Type: ushort Data 3: Registration Status Data3 Type: RegistrationStatus Data 4: Null Data4 Type: ushort
72C8	29384	NETX statemachD state 03 regs is good	NET[MCU]	Normal	NETX state machine D state 03 registration is good Data 1: RTU Address Data1 Type: RTUAddress Data 2: Null Data2 Type: ushort Data 3: Registration Status Data3 Type: RegistrationStatus Data 4: Null Data4 Type: ushort
72C9	29385	NETX state machine D state 04 arrival	NET[MCU]	Normal	

					<p>Data 1:Null Data1 Type: ushort Data 2: Scans the list of reported Primary FeederNets and requests each one with delay between each request provided by next state waiting on the reply. Data2 Type: StatusFeedbackArea Data 3: Checks on and waits for successful registration of the DNP Address from D0 Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72CA	29386	NETX state machine D state 05 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Waits until the requested Feeder Net has been returned then goes back to previous state Data2 Type: StatusFeedbackArea Data 3: Scans the list of reported Primary FeederNets and requests each one with delay between each request provided by next state waiting on the reply. Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72CB	29387	NETX state machine D state 06 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: the list of reported Adjacent FeederNets and requests each one with delay between each request provided by next state waiting on the reply Data2 Type: StatusFeedbackArea Data 3: Waits until the requested Feeder Net has been returned then goes back to previous state Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72CC	29388	NETX state machine D state 07 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Waits until the requested Feeder Net has been returned then goes back to previous state Data2 Type: StatusFeedbackArea Data 3: The list of reported Adjacent FeederNets and requests each one with delay between each request provided by next state waiting on the reply Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72CD	29389	NETX state machine D state 08 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: All Delivered now, proceed to apply Data2 Type: StatusFeedbackArea Data 3: Waits until the requested Feeder Net has been returned then goes back to previous state Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72CE	29390	NETX state machD state8 make div net	NET[MCU]	Normal	<p>NETX state machine D state 8 make division net Data 1: Record Where in VM find array this net list is in Data1 Type: ushort Data 2: Feeder Net ID Data2 Type: FeederNetID Data 3: Feeder Net CRC Data3 Type: FeederNetCRC Data 4: Null Data4 Type: ushort</p>
72CF	29391	NETX state machine D state 9 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Registers New RTUs and copies our DivisionNet information to appropriate tables Data2 Type: StatusFeedbackArea Data 3: All Delivered now, proceed to apply Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>

Definitions of Historic Events

72D0	29392	NETX state machine D state 09 Make Nodes	NET[MCU]	Normal	<p>Data 1: Index into the substation list for Feeder Net "tree root" Data1 Type: Substation Data 2: Power Source Data-Starting Row in Present NetView for this Power Source Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort</p>
72D1	29393	NETX state machD state9 make nodes fail	NET[MCU]	Normal	<p>NETX state machine D state 9 make nodes fail Data 1:Null Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort</p>
72D2	29394	NETX state machine D state 10 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Cleanup and return to Idle state Data2 Type: StatusFeedbackArea Data 3: All Delivered now, proceed to apply Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort</p>
72D3	29395	NETX state machine E state 01 arrival	NET[MCU]	Normal	<p>Data 1:Null Data1 Type: ushort Data 2: Runner Source Device Data Collection and Data Distribution manager IDLEStarts Runners on signal from State Machine F State 4 when it finds we are a runner source Data2 Type: StatusFeedbackArea Data 3: Cleanup and return to Idle state Data3 Type: StatusFeedbackArea Data 4:Null Data4 Type: ushort</p>
72D4	29396	NETX state machine F state 01 Arrival	NET[MCU]	Normal	<p>Data 1: Runner Number for non-runner source devices Data1 Type: RunnerNumber Data 2: State Machine F Manages sequences of operations in support of multiple simultaneous, Netlist Distributions Data2 Type: StatusFeedbackArea Data 3: Null Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort</p>
72D5	29397	NETX state machine F state 02 Arrival	NET[MCU]	Normal	<p>Data 1: Runner Number for non-runner source devices Data1 Type: RunnerNumber Data 2: This state waits for the arrival of all required Activation Runners then applies the new Feeder Net to NETV and DAT Data2 Type: StatusFeedbackArea Data 3: State Machine F Manages sequences of operations in support of multiple simultaneous, Netlist Distributions Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort</p>
72D6	29398	NETX state machine F state 03 Arrival	NET[MCU]	Normal	<p>Data 1: Runner Number for non-runner source devices Data1 Type: RunnerNumber Data 2: This state waits for the arrival of all required Activation Runners then applies the new Feeder Net to NETV and DAT Data2 Type: StatusFeedbackArea</p>

Definitions of Historic Events

					<p>Data 3: State Machine F Manages sequences of operations in support of multiple simultaneous, Netlist Distributions Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort</p>
72D7	29399	NETX state machine F state 04 Arrival	NET[MCU]	Normal	<p>Data 1: Runner Number for non-runner source devices Data1 Type: RunnerNumber Data 2: Releases our claim on PushingHoldoff, then waits for all appropriate runners to have returned, then Analyzes to see if this is a runner source, lists Runners if yes, checks RSD Registration Data2 Type: StatusFeedbackArea Data 3: State Machine F Manages sequences of operations in support of multiple simultaneous, Netlist Distributions Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort</p>
72D8	29400	NETX state machF state 04 runner source	NET[MCU]	Normal	<p>NETX state machine F state 04 runner source Data 1: Runner Source Device Data1 Type: RSD Data 2: Null Data2 Type: ushort Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort</p>
72DA	29402	NETX state machine G state 01 Arrival	NET[MCU]	Normal	<p>Data 1: Null Data1 Type: ushort Data 2: State Machine G Manages sequences of operations in support of Sending of Feeder Net Deployment Runner Objects. State 1 is the IdleState Data2 Type: StatusFeedbackArea Data 3: Null Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort</p>
72DB	29403	NETx state machine G state 01 deployment	NET[MCU]	Normal	<p>Data 1: Incoming number of teams Data1 Type: INCNUMTEAM Data 2: Number of netlist runners Data2 Type: NETLISTRNR Data 3: Feeder Net ID from IntelliTeam Designer Data3 Type: FeederNetID Data 4: Null Data4 Type: ushort</p>
72DC	29404	NETX state machine G state 02 Arrival	NET[MCU]	Normal	<p>Data 1: Null Data1 Type: ushort Data 2: G State 2 Creates and sends (store object) until the runner-list required number of runners has been sent Data2 Type: StatusFeedbackArea Data 3: State Machine G Manages sequences of operations in support of Sending of Feeder Net Deployment Runner Objects Data3 Type: StatusFeedbackArea Data 4: Null Data4 Type: ushort</p>
72DD	29405	NETX state machG state02 store object	NET[MCU]	Normal	<p>NETX state machine G state 02 store object Data 1: Runner Number Data1 Type: RunnerNumber Data 2: RTU Address Data2 Type: RTUAddress Data 3: Data Length Data3 Type: DataLength Data 4: Null Data4 Type: ushort</p>
72E1	29409	NETX state machH state02 storage ok	NET[MCU]	Normal	<p>NETX state machine H state 02 storage ok Data 1: Runner Number Data1 Type: RunnerNumber Data 2: Destination RTU Address Data2 Type: RTUAddress Data 3: Null Data3 Type: ushort Data 4: Null Data4 Type: ushort</p>

Definitions of Historic Events

72E6	29414	NETX too many in Netview row	NET[MCU]	Normal	NETX too many in Netview row (would overflow) Data 1: Current row number Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72E7	29415	NETX too many Netview columns	NET[MCU]	Normal	 Data 1: Current row number Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72E8	29416	Overflow the device instance table	NET[MCU]	Normal	 Data 1: Device Type Data1 Type: dev Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72E9	29417	NETX too many substations in Feeder Net	NET[MCU]	Normal	Would overflow Data 1: Number of team record Data1 Type: nt Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72EA	29418	NETX too many netx devices	NET[MCU]	Normal	 Data 1:Null Data1 Type: ushort Data 2: Number of device connection present,counter,list length Data2 Type: nsngl Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72EB	29419	NETX too many netx columns	NET[MCU]	Normal	If Data4 is 4 then data 1 would be the deviceCountTotal Data 1:Null Data1 Type: ushort Data 2: Number of device connection present,counter,list length Data2 Type: nsngl Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72EC	29420	NETX too many netx rows	NET[MCU]	Normal	If Data4 is 10 then data 1 would be the deviceCountTotal Data 1:Null Data1 Type: ushort Data 2: Number of device connection present,counter,list length Data2 Type: nsngl Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72ED	29421	NETX too many NETV rows	NET[MCU]	Normal	 Data 1: Current row number Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72EE	29422	NETX too many DGs in Feeder Net	NET[MCU]	Normal	 Data 1: Current row number Data1 Type: ushort Data 2:Null Data2 Type: ushort Data 3:Null Data3 Type: ushort Data 4:Null Data4 Type: ushort
72EF	29423	NETX found DG in Feeder Net	NET[MCU]	Normal	

Definitions of Historic Events

					<p>Data 1: Current row number <i>Data1 Type:</i> ushort Data 2:Null <i>Data2 Type:</i> ushort Data 3:Null <i>Data3 Type:</i> ushort Data 4:Null <i>Data4 Type:</i> ushort</p>
A001	40961	IMS Call Issue	ATX[DSP]	All	<p>Call to IMS returned nonzero.</p> <p>Data 1: IMS Return Code <i>Data1 Type:</i> IMSRetCode</p>
A002	40962	Return to Initial Settings Issue	ATX[DSP]	All	<p>Attempt to return to Initial Trip not allowed. There are timing Controller elements.</p> <p>Data 1: ATX State <i>Data1 Type:</i> ATXState Data 2: Issue reason <i>Data2 Type:</i> ITIssueCode Data 3: Mask of timing OC elements <i>Data3 Type:</i> ushort Data 4: Mask of timing misc elements <i>Data4 Type:</i> ushort</p>
A003	40963	External Command Received	EVT[DSP]	Normal	<p>Data 1: Command Code <i>Data1 Type:</i> CommandCode Data 2: Command Argument #1 <i>Data2 Type:</i> CommandArgument Data 3: Command Argument #2 <i>Data3 Type:</i> CommandArgument2 Data 4: Command Argument #3 <i>Data4 Type:</i> CommandArgument3</p>
A004	40964	Time Source Changed	ATX[DSP]	Extended	<p>If the Time source changes between GPS and local Clock this event is logged.</p> <p>Data 1: New Time Source <i>Data1 Type:</i> DSPTimeSource Data 2: Old Time Source <i>Data2 Type:</i> DSPTimeSource</p>
A005	40965	Switch to Next Test Settings	ATX[DSP]	Normal	<p>Choosing the next set of curves for Reclosing operation.</p> <p>Data 1: Data1 <i>Type:</i> ushort Data 2: Data2 <i>Type:</i> ShiftType Data 3: Data3 <i>Type:</i> ATXState</p>
A006	40966	Switch To Next Test Group Issue	ATX[DSP]	Normal	<p>Choosing the next set of curves not allowed. Either curves are not configured or there are timing elements.</p> <p>Data 1: Data1 <i>Type:</i> ShiftType Data 2: Data2 <i>Type:</i> ATXState</p>
A007	40967	Coord Curve Shift Direction X	ATX[DSP]	Normal	<p>External command or sequence coordination element requested a shift</p>
A008	40968	Next Operation in Test Sequence	EVT[DSP]	Normal	<p>Advance in test sequence. The type of the next operation is logged.</p> <p>Data 1: Operation Number <i>Data1 Type:</i> OperationNumber Data 2: Operation Type <i>Data2 Type:</i> OperationType</p>
A009	40969	Pole test postponed - no source	ATX[DSP]	Normal	<p>Source voltage is lost on one or more poles to be tested. Testing on these poles isn't postponed.</p> <p>Data 1: List of poles that have no viable voltage <i>Data1 Type:</i> PoleMask</p>
A00A	40970	Pole Open (1-phase operation)	EVT[DSP]	Normal	<p>Notification from IMS received by ATX.</p> <p>Data 1: Pole Name <i>Data1 Type:</i> PoleName</p>
A00B	40971	Pole Closed (1-phase operation)	EVT[DSP]	Normal	<p>Notification from IMS received by ATX.</p> <p>Data 1: Pole Name <i>Data1 Type:</i> PoleName</p>
A00C	40972	All Poles Open - 3-phase operation	EVT[DSP]	Normal	<p>Notification from IMS received by ATX.</p>
A00D	40973	All Poles Closed - 3-phase operation	EVT[DSP]	Normal	<p>Notification from IMS received by ATX.</p>

Definitions of Historic Events

A00E	40974	IMS STUB: Open3 Fired	ATX[DSP]	Normal	Debug message - should not appear in production.
A00F	40975	IMS STUB: Open3 Done	ATX[DSP]	Normal	Debug message - should not appear in production.
A010	40976	IMS STUB: Close3 Fired	ATX[DSP]	Normal	Debug message - should not appear in production.
A011	40977	IMS STUB: Close3 Done	ATX[DSP]	Normal	Debug message - should not appear in production.
A012	40978	IMS STUB: Pulse3 Fired	ATX[DSP]	Normal	Debug message - should not appear in production.
A014	40980	IMS STUB: Pulse1 Fired	ATX[DSP]	Normal	Debug message - should not appear in production. Data 1: Pole Name Data1 Type: PoleName
A015	40981	IMS STUB: Pulse1 Done	ATX[DSP]	Normal	Debug message - should not appear in production. Data 1: Pole Name Data1 Type: PoleName
A016	40982	Cannot Use 3Ph - Poles locked Out	ATX[DSP]	Normal	Debug message - should not appear in production. Data 1: Pole Mask Data1 Type: PoleMask
A017	40983	IMS STUB: Close1 Done	ATX[DSP]	Normal	Debug message - should not appear in production. Data 1: Pole Name Data1 Type: PoleName
A018	40984	Synch Check Prevents Closing	EVT[DSP]	Normal	CLOSE command rejected.
A019	40985	Low Control Energy	ATX[DSP]	Normal	IPM reported insufficient energy.
A01A	40986	Profile Not Replaced	ATX[DSP]	Normal	Request to replace active profile with timing elements or replace closing profile during CLOSE. Data 1: Profile number Data1 Type: ProfileNumber
A01B	40987	Profile Replaced	ATX[DSP]	Normal	The requested profile was successfully replaced. Data 1: Profile number Data1 Type: ProfileNumber
A01C	40988	New Profile Established	ATX[DSP]	Normal	Any change of current profile. Data 1: Profile number Data1 Type: ProfileNumber Data 2: Old Profile number Data2 Type: ProfileNumber
A01D	40989	New Profile Not Established	ATX[DSP]	Normal	Profile was not properly loaded so it cannot be set as a current profile. Or explicit command to set a profile issued while elements are timing. Data 1: Profile number Data1 Type: ProfileNumber Data 2: Old Profile number Data2 Type: ProfileNumber
A01E	40990	ATX ERROR State	ATX[DSP]	Normal	The device has entered the ERROR State. The ERROR state indicates a serious condition has occurred and the device can no longer perform its basic open and closing functions. Please report this condition to an product representative immediately. Data 1: Abort Reason Data1 Type: AbortReason
A01F	40991	Locked Open State	EVT[DSP]	Normal	This state is entered when the manual handel is pulled to the "open" position and the contacts are pried open. While the Manual handle is in this position it is physically impossible for the poles to close as there is a physical block preventing all closing operations. To exist this state the user must move the manual handle to the neutral position before a close operation can occur.
A020	40992	Initialization State	EVT[DSP]	Normal	This is the state that the IntelliRupter must enter on powerup to determine what is happening in the physical world around it.

Definitions of Historic Events

A021	40993	Closed Initial Trip State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A022	40994	Wait to Trip Open State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A023	40995	All Poles Open and Locked Out	EVT[DSP]	Normal	This state is logged when the device has all three poles open and no more testing will be done do to an automatic test sequence. Data 2: This state can be 1phase Data2 Type: ATXMode
A024	40996	Open in Test State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A025	40997	Pulse Delayed State	EVT[DSP]	Normal	New ATX state entered.
A026	40998	Reclosing State	EVT[DSP]	Normal	New ATX state entered.
A027	40999	Pulsing State	EVT[DSP]	Normal	New ATX state entered.
A028	41000	Wait Test Result State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A029	41001	Cancel Operation State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A02A	41002	Wait Cancel Operation State	EVT[DSP]	Normal	New ATX state entered.
A02B	41003	Closed in Test State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A02C	41004	Pulse Close Delayed State	EVT[DSP]	Normal	New ATX state entered.
A02D	41005	Pulse Close State	EVT[DSP]	Normal	New ATX state entered.
A02E	41006	Wait for Pulse Close Results State	EVT[DSP]	Normal	New ATX state entered.
A02F	41007	Closed in Closed Profile State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A030	41008	Wait Closing State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A031	41009	Reinitialization State	EVT[DSP]	Normal	New ATX state entered.
A032	41010	Closed in Coordination State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A033	41011	Delay to Close State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A034	41012	Execute Close State	EVT[DSP]	Normal	New ATX state entered. Data 2: This state can be 1phase Data2 Type: ATXMode
A035	41013	Suspend Operation-Low Energy	EVT[DSP]	Normal	New ATX state entered.
A036	41014	Replacing Active Profile	EVT[DSP]	Normal	New ATX state entered.
A037	41015	Waiting Test Open	EVT[DSP]	Normal	New ATX state entered.
A038	41016	Waiting Manual Open	EVT[DSP]	Normal	Control is waiting for the end of open operation initiated by manual lever.

Definitions of Historic Events

A039	41017	Special Test State	ATX[DSP]	Normal	Control is in special Test State.
A03A	41018	Idle State	ATX[DSP]	Normal	PRO and ATX are in the Idle State.
A03B	41019	Shutdown State	ATX[DSP]	Normal	Control is shutting down due to loss of control power.
A03C	41020	Unpowered State	ATX[DSP]	Normal	Protection processor is ready for loss of power.
A03D	41021	Hot-Line Tag Profile Active	EVT[DSP]	Normal	Hot-Line Tag Profile Active.
A03E	41022	Hot-Line Tag Profile Not Active	ATX[DSP]	Normal	Hot-Line Tag Profile Not Active.
A03F	41023	Hot-Line Tag Lever Applied	EVT[DSP]	Normal	Manual lever operation.
A040	41024	Hot-Line Tag Lever Removed	EVT[DSP]	Normal	Manual lever operation.
A041	41025	Hot-Line Tag Lever Clear All	EVT[DSP]	Normal	Double Manual lever operation.
A042	41026	Data Acquisition Issue	ATX[DSP]	All	Calculations do not fit into real time schedule. Data 1: ISR Counter Data1 Type: ushort
A043	41027	ATX Hold Command Executed	ATX[DSP]	Normal	
A044	41028	ATX Run Command Executed	ATX[DSP]	Normal	
A045	41029	Freq Check Issue - No System Voltage	ATX[DSP]	All	Low voltage prevents frequency check.
A046	41030	Freq Measured Doesn't Match Config	ATX[DSP]	Normal	Different nominal frequency detected. Data 1: Measured System Frequency Data1 Type: SystemFrequency
A047	41031	Sys Freq Changed by Comm Proc	ATX[DSP]	Normal	Data 1: Old System Frequency Data1 Type: SystemFrequency Data 2: New System Frequency Data2 Type: SystemFrequency
A048	41032	Prot Prcsr Timeout no ATXRun Cmd	ATX[DSP]	Normal	MCU did not issue this command in time during processor startup. Restricted protection mode started.
A049	41033	Abnormal Prot Proc Restart	ATX[DSP]	Normal	Safe time (four hours) has elapsed since the previous abnormal reset. Data 1: DSP Time Source Data1 Type: DSPTimeSource Data 2: Time elapsed from previous abnormal restart - Part 1 Data2 Type: ushort Data 3: Time elapsed from previous abnormal restart - Part 2 Data3 Type: ushort
A04A	41034	Control Power Out Time Unknown	ATX[DSP]	Normal	The time when the DSP processor stopped cannot be determined. Data 1: New Time Source Data1 Type: DSPTimeSource Data 2: Old Time Source Data2 Type: DSPTimeSource
A04B	41035	Optional Disconnect Open	EVT[DSP]	Normal	Mechanical switch position.
A04C	41036	Optional Disconnect Closed	EVT[DSP]	Normal	Mechanical switch position.
A04D	41037	Coordination Curve Shift Dir X off	ATX[DSP]	Normal	External command or reset timer forced initial trip settings
A04E	41038	ATX Manual Op Clear - Rejected	ATX[DSP]	Normal	ATX Manual Op Clear - Rejected Data 1: Data1 Type: ManOpClrReject

Definitions of Historic Events

A04F	41039	Manual Lever Moved to Open	EVT[DSP]	Normal	Manual Lever Moved to Open
A050	41040	Manual Lever Moved to Neutral	EVT[DSP]	Normal	or is initially in this position.
A051	41041	Manual Lever Moved to Close	EVT[DSP]	Normal	or is initially in this position.
A052	41042	Control Sleep Time Determined	ATX[DSP]	Normal	Data 1: Sleep time - Part1 Data1 Type: ushort Data 2: Sleep time - Part2 Data2 Type: ushort
A053	41043	Comm Proc No RTC on Power-Up	ATX[DSP]	Normal	
A054	41044	Control Seq Disabled to Proceed	ATX[DSP]	Normal	Too much time elapsed without power.
A055	41045	Control Sequence Allowed to Proceed	ATX[DSP]	Normal	Sleep time within the limits. Test sequence can be resumed.
A056	41046	Startup Frequency Check Success	ATX[DSP]	Normal	
A057	41047	Protection Processor Reset Status	ATX[DSP]	Normal	Contents of 0x200-3 on reset logged. Data 1: 200-201 Data1 Type: ushort Data 2: 202-203 Data2 Type: ushort
A058	41048	Calibration Data Updated	ATX[DSP]	Normal	
A059	41049	SEEPROM Calibration Data Changed	ATX[DSP]	Normal	
A05A	41050	Calib Data Reloaded From SEEPROM	ATX[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort
A05B	41051	External Command Rejected	EVT[DSP]	Normal	Close command not in fully open state. Set HLT when ATX is disabled. Data 1: Command Code Data1 Type: CommandCode Data 2: Current ATX State Data2 Type: ATXState Data 3: Command rejection reason Data3 Type: ATXCmdRejectReason
A05C	41052	Total Energy Counters Cleared	ATX[DSP]	Normal	by external command.
A05D	41053	SEEPROM Operational Issue	ATX[DSP]	All	Problems with serial EEPROM operations. Data 1: Error Source Data1 Type: SEEPErrorCode
A05E	41054	Prot Proc Abnormal Restart	ATX[DSP]	Normal	Data 1: Abnormal reset details Data1 Type: AbnormalRestartCode
A05F	41055	SEEPROM Task Queue is Full	ATX[DSP]	Normal	
A060	41056	Wrong Calibration Data CRC	ATX[DSP]	Normal	Either of CCP board or Application board calibration data CRC is bad. Data 1: Sensors CRC status Data1 Type: CalDataCRCStatus Data 2: Application board CRC status Data2 Type: CalDataCRCStatus Data 3: CCP board CRC status Data3 Type: CalDataCRCStatus

Definitions of Historic Events

A061	41057	Phase Rotation Changed	ATX[DSP]	Normal	Phase rotation change has been detected. Data 1: New rotation <i>Data1 Type: SystemRotation</i> Data 2: Previous rotation <i>Data2 Type: SystemRotation</i> Data 3: One half of nominal system voltage in Volts <i>Data3 Type: ushort</i> Data 4: One quarter of nominal system voltage in Volts <i>Data4 Type: ushort</i>
A062	41058	Control Calib Data CRCs are OK	ATX[DSP]	Normal	Both CCP board and Application board calibration data CRC is correct.
A063	41059	Significant ATX Error	ATX[DSP]	Normal	Self diagnostics of a crash - report to developers.
A065	41061	Protect. Elmt Enters Timing State	EVT[DSP]	Normal	Data 1: Relay Type <i>Data1 Type: RelayType</i> Data 2: Relay number <i>Data2 Type: RelayNumber</i> Data 3: Driver value (Generic according to Relay Type) <i>Data3 Type: DriverValue</i>
A066	41062	Protect. Element Overtravel State	PRO[DSP]	Normal	Data 1: Relay Type <i>Data1 Type: RelayType</i> Data 2: Relay Number <i>Data2 Type: RelayNumber</i> Data 3: Driver value (Generic according to Relay Type) <i>Data3 Type: DriverValue</i>
A067	41063	Protect. Elmt Reached Trip State	EVT[DSP]	Normal	Data 1: Relay Type <i>Data1 Type: RelayType</i> Data 2: Relay Number <i>Data2 Type: RelayNumber</i> Data 3: Driver value (Generic according to Relay Type) <i>Data3 Type: DriverValue</i>
A068	41064	Protect. Elmt Reached Reset State	PRO[DSP]	Normal	Data 1: Relay Type <i>Data1 Type: RelayType</i> Data 2: Relay Number <i>Data2 Type: RelayNumber</i> Data 3: Driver value (Generic according to Relay Type) <i>Data3 Type: DriverValue</i>
A069	41065	Protect. Elmt Reached 20% Milestone	PRO[DSP]	Normal	Data 1: Relay Type <i>Data1 Type: RelayType</i> Data 2: Relay Number <i>Data2 Type: RelayNumber</i> Data 3: Driver value (Generic according to Relay Type) <i>Data3 Type: DriverValue</i>
A06A	41066	Protect. Elmt Reached 50% Milestone	PRO[DSP]	Normal	Data 1: Relay Type <i>Data1 Type: RelayType</i> Data 2: Relay Number <i>Data2 Type: RelayNumber</i> Data 3: Driver value (Generic according to Relay Type) <i>Data3 Type: DriverValue</i>
A06B	41067	Protect. Elmt Reached 80% Milestone	PRO[DSP]	Normal	Data 1: Relay Type <i>Data1 Type: RelayType</i> Data 2: Relay Number <i>Data2 Type: RelayNumber</i> Data 3: Driver value (Generic according to Relay Type) <i>Data3 Type: DriverValue</i>
A06C	41068	Log Max Value	PRO[DSP]	Normal	Maximum of the driver value in tripped state. Data 1: Relay Type <i>Data1 Type: RelayType</i> Data 2: Relay Number <i>Data2 Type: RelayNumber</i>

Definitions of Historic Events

					Data 3: Driver value (Generic according to Relay Type) Data3 Type: DriverValue
A06D	41069	High Current Lockout	EVT[DSP]	Normal	IntelliRupter proceeds to lockout with no further testing. Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: Driver value (Current) Data3 Type: DriverValueCurrent
A06E	41070	Current Below Lockout Threshold	PRO[DSP]	Normal	Testing is possible. Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: Driver value (Current) Data3 Type: DriverValueCurrent
A06F	41071	Current Above Cutoff	EVT[DSP]	Normal	Protective element should start timing to trip. Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: Driver value (Current) Data3 Type: DriverValueCurrent
A070	41072	Current Below Cutoff	EVT[DSP]	Normal	Protective element should start timing to reset. Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: Driver value (Current) Data3 Type: DriverValueCurrent
A071	41073	Cold Load Element in Delay to Set	EVT[DSP]	Normal	Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: CLF value Data3 Type: CLFValue Data 4: Voltage Data4 Type: ushort
A072	41074	Cold Load Element in Cooling State	EVT[DSP]	Normal	Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: CLF value Data3 Type: CLFValue Data 4: Voltage Data4 Type: ushort
A073	41075	Cold Load Element in Delay to Reset	EVT[DSP]	Normal	Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: CLF value Data3 Type: CLFValue Data 4: Voltage Data4 Type: ushort
A074	41076	Cold Load Element in Warming State	EVT[DSP]	Normal	Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: CLF value Data3 Type: CLFValue Data 4: Voltage Data4 Type: ushort
A075	41077	Log Cold Load Factor Value	PRO[DSP]	Normal	Logged when changes. Data 1: Relay Type Data1 Type: RelayType Data 2: Relay Number Data2 Type: RelayNumber Data 3: CLF value Data3 Type: CLFValue Data 4: Voltage Data4 Type: ushort
A076	41078	Pulse Authorized - Backfeed Allowed	PRO[DSP]	Normal	Backfeed detected but pulsing not blocked. Data 1: Data1 Type: TstBackfeedCommandArg
A077	41079	Pulse Inhibited. Backfeed Prohibits	PRO[DSP]	Normal	Backfeed detected and pulsing is blocked on backfeed.

Definitions of Historic Events

A078	41080	Directional Element Activated	PRO[DSP]	Normal	<p>Because at least one pole is closed.</p> <p>Data 1: Side which is currently used as a source side. <i>Data1 Type: good_sourceRelayArg</i> Data 2: System voltage used by the Directional Element for torque calculation. This can be line voltage or memory voltage. <i>Data2 Type: ushort</i> Data 3: Number of Directional Elements <i>Data3 Type: ushort</i></p>
A079	41081	Initial Dir opp of OC elements timing	PRO[DSP]	Normal	<p>No fault detected, both DE flags are cleared. This message is logged when 2-cycle timer is expired but both DE flags are cleared.</p> <p>Data 1: Zero sequence trace info <i>Data1 Type: zs_traceInfo</i> Data 2: Negative sequence trace info. <i>Data2 Type: ns_traceInfo</i> Data 3: Phase trace info <i>Data3 Type: phase_traceInfo</i> Data 4: Auxiliary data of the DE algorithm workflow <i>Data4 Type: DEauxData</i></p>
A07A	41082	Protection Elements Blocked By DE	PRO[DSP]	Normal	<p>Output of the Directional Element has changed and overcurrent protection elements looking at unfaulted side are disabled and reset.</p> <p>Data 1: Faulted side or load side as determined by the Directional Element. Possible values are TermX or TermY or Both. In the latter case all overcurrent elements run without directional supervision. <i>Data1 Type: DETerm</i> Data 2: Element disabled by the Directional Element <i>Data2 Type: ElemDisabledByDE</i> Data 3: Total System Torque <i>Data3 Type: ushort</i> Data 4: SEF component of torque <i>Data4 Type: ushort</i></p>
A07B	41083	Directional Element Fault on X	PRO[DSP]	Normal	<p>Data 1: Zero sequence trace info <i>Data1 Type: zs_traceInfo</i> Data 2: Negative sequence trace info. <i>Data2 Type: ns_traceInfo</i> Data 3: Phase trace info <i>Data3 Type: phase_traceInfo</i> Data 4: Auxiliary data of the DE algorithm workflow <i>Data4 Type: DEauxData</i></p>
A07C	41084	Directional Element Fault on Y	PRO[DSP]	Normal	<p>Data 1: Zero sequence trace info <i>Data1 Type: zs_traceInfo</i> Data 2: Negative sequence trace info. <i>Data2 Type: ns_traceInfo</i> Data 3: Phase trace info <i>Data3 Type: phase_traceInfo</i> Data 4: Auxiliary data of the DE algorithm workflow <i>Data4 Type: DEauxData</i></p>
A07D	41085	Pulse Finding Trip	EVT[DSP]	Normal	<p>Pulse finding generated trip signal.</p> <p>Data 1: Tripped Pole <i>Data1 Type: PoleName</i></p>
A07E	41086	Log Fault Currents	EVT[DSP]	Normal	<p>Maximum phase currents and residual while in the trip state.</p> <p>Data 1: Pole 1 Current <i>Data1 Type: PoleCurrent</i> Data 2: Pole 2 Current <i>Data2 Type: PoleCurrent</i> Data 3: Pole 3 Current <i>Data3 Type: PoleCurrent</i> Data 4: Residual Current <i>Data4 Type: PoleCurrent</i></p>
A07F	41087	Log Fault Voltages	EVT[DSP]	Normal	<p>Instantaneous values at the moment of trip signal.</p> <p>Data 1: Pole 1 Voltage <i>Data1 Type: PoleVoltage</i> Data 2: Pole 2 Voltage <i>Data2 Type: PoleVoltage</i> Data 3: Pole 3 Voltage <i>Data3 Type: PoleVoltage</i></p>
A080	41088	Directional Element Fault on X off	PRO[DSP]	Normal	<p>Data 1: Zero sequence trace info <i>Data1 Type: zs_traceInfo</i></p>

					<p>Data 2: Negative sequence trace info. Data2 Type: ns_traceInfo Data 3: Phase trace info Data3 Type: phase_traceInfo Data 4: Auxiliary data of the DE algorithm workflow Data4 Type: DEauxData</p>
A081	41089	Close Authorized	PRO[DSP]	Normal	<p>Synch check succeeded.</p> <p>Data 1: Maximun Voltage Difference in Volts Data1 Type: PoleVoltage Data 2: Maximun Angle Difference in degrees Data2 Type: AngleDiff Data 3: Side X and Y Frequency Difference in Hz Data3 Type: DriverValueFrequency</p>
A082	41090	Close Inhibited	PRO[DSP]	Normal	<p>Synch check blocked close.</p> <p>Data 1: Maximun Voltage Difference in Volts Data1 Type: PoleVoltage Data 2: Maximun Angle Difference in degrees Data2 Type: AngleDiff Data 3: Side X and Y Frequency Difference in Hz Data3 Type: DriverValueFrequency</p>
A083	41091	Sectionalizer Not in LOV State	EVT[DSP]	Normal	<p>Data 1: LOV Counter Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Sectionalizer State Data4 Type: SectState</p>
A084	41092	Sectionalizer in LOV State	EVT[DSP]	Normal	<p>Data 1: LOV Counter Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Sectionalizer State Data4 Type: SectState</p>
A085	41093	Sectionalizer in Fault State	EVT[DSP]	Normal	<p>Data 1: LOV Counter Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Sectionalizer State Data4 Type: SectState</p>
A086	41094	Sectionalizer in Tripped State	EVT[DSP]	Normal	<p>Data 1: LOV Counter Data1 Type: ushort Data 2: Data2 Type: TripReason Data 3: Data3 Type: ushort Data 4: Sectionalizer State Data4 Type: SectState</p>
A087	41095	Sectionalizer in First LOV State	PRO[DSP]	Normal	<p>Data 1: LOV Counter Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Sectionalizer State Data4 Type: SectState</p>
A088	41096	Sectionalizer in OC Timing State	EVT[DSP]	Normal	
A089	41097	Sectionalizer in UV Timing State	EVT[DSP]	Normal	
A08A	41098	Sectionalizer in OC Reset State	EVT[DSP]	Normal	
A08B	41099	Voltage Source Loss of Energy Trip	EVT[DSP]	Normal	Loss of control energy led to IR trip.

Definitions of Historic Events

A08C	41100	Voltage Source Loss of Energy Reset	PRO[DSP]	Normal	Return of control energy.
A08D	41101	NTD Trip Activation State	EVT[DSP]	Extended	Description needed for this event. Data 1: 1 second average of positive sequence voltage Data1 Type: ushort Data 2: Negative sequence reference voltage Data2 Type: ushort Data 3: Negative sequence voltage Data3 Type: ushort
A08E	41102	NTD Trip Inhibition State	EVT[DSP]	Extended	Description needed for this event. Data 1: 1 second average of positive sequence voltage Data1 Type: ushort Data 2: Negative sequence reference voltage Data2 Type: ushort Data 3: Negative sequence voltage Data3 Type: ushort
A08F	41103	GTD Trip Activation State	EVT[DSP]	Extended	Data 1: 1 second average of positive sequence voltage Data1 Type: ushort Data 2: Residual ground reference voltage Data2 Type: ushort Data 3: Residual ground voltage Data3 Type: ushort
A090	41104	GTD Trip Inhibit State	PRO[DSP]	Extended	Data 1: 1 second average of positive sequence voltage Data1 Type: ushort Data 2: Residual ground reference voltage Data2 Type: ushort Data 3: Residual ground voltage Data3 Type: ushort
A091	41105	Directional Element Enabled	PRO[DSP]	Normal	Overcurrent elements are under fault directional supervision.
A092	41106	Directional Element Disabled	PRO[DSP]	Normal	No directional supervision for the overcurrent elements exists.
A093	41107	Sequence Coordination Waiting State	PRO[DSP]	Normal	The Sequence Coordination element is in Waiting State.
A094	41108	Initial Settings Group State	PRO[DSP]	Normal	The Sequence Coordination element is in Initial Settings Group State.
A095	41109	Sequence Coordination Shift State	PRO[DSP]	Normal	Request to move to slower TCC curves generated by the Sequence Coordination element. Data 1: Data1 Type: ShiftType Data 2: Data2 Type: ShiftState Data 3: Data3 Type: ATXState
A096	41110	Good Source Detected	PRO[DSP]	Normal	Universal voltage element asserted. Data 3: Positive sequence (Voltage) Data3 Type: DriverValueVoltage
A097	41111	Good Source Not Detected	PRO[DSP]	Normal	Universal voltage element reset. Data 3: Positive sequence (Voltage) Data3 Type: DriverValueVoltage
A098	41112	Directional Element Inactive	PRO[DSP]	Normal	Directional Element is suspended because switch is fully open. Data 1: Side which is currently used as a source side. Data1 Type: good_sourceRelayArg Data 2: System voltage used by the Directional Element for torque calculation. This can be line voltage or memory voltage. Data2 Type: ushort

A099	41113	SEFTD Trip Activation State	PRO[DSP]	Extended	Data 1: 1 second average of positive sequence voltage Data1 Type: ushort Data 2: Residual ground reference voltage Data2 Type: ushort Data 3: Residual ground voltage Data3 Type: ushort
A09A	41114	SEFTD Trip Inhibition State	PRO[DSP]	Extended	Data 1: 1 second average of positive sequence voltage Data1 Type: ushort Data 2: Residual ground reference voltage Data2 Type: ushort Data 3: Residual ground voltage Data3 Type: ushort
A09B	41115	Overcurrent Timing On	PRO[DSP]	Normal	There is an overcurrent element in timing state.
A09C	41116	Overcurrent Timing Off	PRO[DSP]	Normal	None of overcurrent elements are in timing state.
A09D	41117	Voltage Timing On	PRO[DSP]	Normal	There is a voltage element in timing state.
A09E	41118	Voltage Timing Off	PRO[DSP]	Normal	None of voltage elements are in timing state.
A09F	41119	Frequency Timing On	PRO[DSP]	Normal	There is a frequency element in timing state.
A0A0	41120	Frequency Timing Off	EVT[DSP]	Normal	None of a frequency elements are in timing state.
A0A1	41121	Sectionalizer Timing On	EVT[DSP]	Normal	The Sectionalizing Element is in timing state.
A0A2	41122	Sectionalizer Timing Off	EVT[DSP]	Normal	The Sectionalizing Element is not in timing state.
A0A3	41123	Source is on terminal X	PRO[DSP]	Normal	Voltage Trip elements are driven by side X sensors. Data 1: Positive Sequence Voltage on side X Data1 Type: ushort Data 2: Positive Sequence Voltage on side Y Data2 Type: ushort
A0A4	41124	Source is on terminal Y	PRO[DSP]	Normal	Voltage Trip elements are driven by side Y sensors. Data 1: Positive Sequence Voltage on side X Data1 Type: ushort Data 2: Positive Sequence Voltage on side Y Data2 Type: ushort
A0A5	41125	Control Energy Not Available	ATX[DSP]	Normal	Control has no energy to perform requested operation.
A0A6	41126	Control Energy Available	ATX[DSP]	Normal	Control has enough energy to perform requested operation.
A0A7	41127	Pole1 2mm Gap High	IMS[DSP]	Normal	Pole1 2mm Gap High.
A0A8	41128	Pole2 2mm Gap High	IMS[DSP]	Normal	Pole2 2mm Gap High.
A0A9	41129	Pole3 2mm Gap High	IMS[DSP]	Normal	Pole3 2mm Gap High.
A0AA	41130	Pole1 2mm Gap Check	IMS[DSP]	Normal	Pole1 2mm Gap Check.
A0AB	41131	Pole2 2mm Gap Check	IMS[DSP]	Normal	Pole2 2mm Gap Check.
A0AC	41132	Pole3 2mm Gap Check	IMS[DSP]	Normal	Pole3 2mm Gap Check.
A0AD	41133	SEF current pulse detected	PRO[DSP]	Normal	SEF current pulse detected. Data 1: Accumulated number of pulses Data1 Type: ushort
A0AE	41134	SEF Pulse counter window begin	PRO[DSP]	Normal	Indicates start of rolling window of Time Period duration. The Time Period is a constant rolling window so if no current spikes

Definitions of Historic Events

					occur within the user-specified Time Period then the current spike counter element is fully reset.
A0AF	41135	SEF pulse counter trip	PRO[DSP]	Normal	Trip of SEF pulse counter element.
A0B0	41136	Ground Element Tripped	EVT[DSP]	Normal	Ground Element Tripped.
A0B1	41137	Ground Element Not Tripped	EVT[DSP]	Normal	Ground Element Not Tripped.
A0B2	41138	Neg Sequence Element Tripped	EVT[DSP]	Normal	Neg Sequence Element Tripped.
A0B3	41139	Neg Sequence Element Not Tripped	EVT[DSP]	Normal	Neg Sequence Element Not Tripped.
A0B4	41140	Enter Single-Phase Mode	ATX[DSP]	Normal	Single-Phase Switch Operation.
A0B5	41141	Single-Phase Lockout State	EVT[DSP]	Normal	One or More Poles Go to Lockout.
A0B6	41142	Immediate Open State	ATX[DSP]	Normal	One or More Poles Have to Trip.
A0B7	41143	Exec Single Pole Op State	ATX[DSP]	Normal	Execute Test Step.
A0B8	41144	Single Pole Test State	EVT[DSP]	Normal	Process Test Step.
A0B9	41145	Latched Overcurrent Condition Off	ATX[DSP]	Normal	
A0BA	41146	Frequency Not Good	EVT[DSP]	Normal	Under frequency is detected.
A0BB	41147	Frequency Is Good	EVT[DSP]	Normal	Under frequency is not detected
A0BC	41148	Under Frequency Detector Is Reset	EVT[DSP]	Normal	Under Frequency Detector is in Fully Reset State. Data 1: Terminal Data1 Type: good_sourceRelayArg Data 2: Frequency Data2 Type: DriverValueFrequency
A0BD	41149	Under Frequency Detector Triggered	EVT[DSP]	Normal	Under Frequency Detector is in Triggered State. Data 1: Terminal Data1 Type: good_sourceRelayArg Data 2: Frequency Data2 Type: DriverValueFrequency
A0BE	41150	IFS Elements Unblocked By Coord	EVT[DSP]	Normal	IFS Elements are not blocked by Sequence Coordination logic. Data 1: Terminal on which the IFS elements are unblocked Data1 Type: ifs_coordRelayArg
A0BF	41151	IFS Elements Blocked By Coord	EVT[DSP]	Normal	IFS Elements blocked by Sequence Coordination logic. Data 1: Terminal on which the IFS elements are blocked Data1 Type: ifs_coordRelayArg
A0C0	41152	Definite Time Element Tripped	EVT[DSP]	Normal	Definite Time Element Tripped.
A0C1	41153	Definite Time Elmnt Not Tripped	EVT[DSP]	Normal	Definite Time Element Not Tripped.
A0C2	41154	1-phase test sequence bypassed	ATX[DSP]	Normal	1-phase lockout forbidden in presence of one locked out pole.
A0C3	41155	3-phase trip - multiple faults	EVT[DSP]	Normal	1-phase trip converted to 3-phase for multiple faults.
A0C4	41156	Backfeed vanished - op resumed	EVT[DSP]	Normal	Backfeed is no longer present on one or more poles. Pulse test resumed. Data 1: Data1 Type: PoleMask

A0C5	41157	1-phase open treated as 3-phase	ATX[DSP]	Normal	If single pole lockout is forbidden or in HLT.
A0C6	41158	Illegal Command	ATX[DSP]	Normal	Data 1: COmmand Code Data1 Type: ushort Data 2: arg1 Data2 Type: ushort Data 3: arg2 Data3 Type: ushort Data 4: arg3 Data4 Type: ushort
A0C7	41159	PRO Significant Error	PRO[DSP]	Normal	
A0C8	41160	Src volt. restored - oper. resumed	EVT[DSP]	Normal	There is enough voltage on one or more poles to continue suspended test operation. Data 1: List of poles that have a viable voltage Data1 Type: PoleMask
A0C9	41161	Close Complete	IMS[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0CA	41162	Start of Close	IMS[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0CB	41163	Start of Pulse	EVT[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0CC	41164	Start of Open	IMS[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0CD	41165	Operation interrupted	IMS[DSP]	Normal	
A0CE	41166	Pulse Complete	EVT[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0CF	41167	Pulsing Disabled - No Contact Touch	IMS[DSP]	Normal	No contact touch for two consecutive PulseClosing operations.
A0D0	41168	Three poles are closed	IMS[DSP]	Normal	Data 1: HR Timer Data1 Type: short
A0D1	41169	Three poles are open	IMS[DSP]	Normal	
A0D2	41170	Actuator Travel Complete	IMS[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0D3	41171	Pole Still Faulted	EVT[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0D4	41172	Inverse Pulsing Faulted Pole	EVT[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0D5	41173	Invalid Pulse	IMS[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0D6	41174	Request DFT	IMS[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName
A0D7	41175	Warning - Excessive Bounce On	IMS[DSP]	Normal	Excessive bounce during Pulsing.

Definitions of Historic Events

A0D8	41176	Warning - Excessive Bounce Off	IMS[DSP]	Normal	Not excessive bounce during Pulsing.
A0D9	41177	Two poles are open	IMS[DSP]	Normal	Data 1: HR Timer Data1 Type: short Data 2: Pole Name Data2 Type: PoleName Data 3: Pole Name Data3 Type: PoleName
A0DA	41178	Warning. 2ndary Plunger Not Opening	IMS[DSP]	Normal	Secondary Plunger does not open during PulseClosing operation.
A0DB	41179	Pulsing Disabd - No Encoder Output	IMS[DSP]	Normal	During Pulse encoder output too low.
A0DC	41180	Pulsing Disabd. No Encoder Reset On	IMS[DSP]	Normal	Encoder does not reset to 0 counts prior to a Pulse or Close operation.
A0DD	41181	Pulsing Disabd. No Cntct Touch OFF	IMS[DSP]	Normal	Contact touch for PulseClosing operation. Data 1: Pole Name Data1 Type: PoleName
A0DE	41182	Contact Touch Angle Out of Bounds	IMS[DSP]	Normal	This event is logged if the time difference between the expected contact touch and actual contact touch exceeds 2 ms. Data feild 1 is the pole that this event was recorded on. Data feild 2 is the expected number of ticks to contact touch. Data feild number 3 is the actual number of ticks to contact touch. One tick in time is 1/(system frequency* 128). For a 50Hz system a tick is 0.15625ms. For a 60Hz system a tick is 0.1302ms. To calculate the Point on Wave error in electrical degrees take the absolute value of the difference between the actual and the expected multiplied by the quantity 360 degress divided by 128 samples per cycle. Example: POW error (degrees) = (Actual-Expected) * (360/128) Data 1: Pole Data1 Type: PoleName Data 2: Expected Data2 Type: RAW Data 3: Actual Data3 Type: RAW
A0DF	41183	Pole Close Time	IMS[DSP]	Normal	Data 1: Expected Data1 Type: RAW Data 2: Actual Data2 Type: RAW
A0E0	41184	Pole Pulse Time	IMS[DSP]	Normal	Data 1: Pole Data1 Type: PoleName Data 2: Expected Data2 Type: RAW Data 3: Actual Data3 Type: RAW Data 4: maxEncoder-minEncoder-stableClose Data4 Type: ushort
A0E1	41185	Receive DFT	IMS[DSP]	Normal	Data 1: Raw phase LSW Data1 Type: RAW Data 2: Raw phase MSW Data2 Type: RAW
A0E2	41186	Close-Open Time Out of Bound	IMS[DSP]	Normal	Data 1: Data1 Type: PoleName
A0E3	41187	Phase Loss Detected	PRO[DSP]	Normal	Data 1: Relay Instance Data1 Type: ATXPLIInstanceType Data 2: Zero Sequence Voltage Data2 Type: ushort
A0E4	41188	Pulsing Disabd. Pulse Out of Range	IMS[DSP]	Normal	Contact touch during 3 consecutive Pulse operations out of range. Data 1: Data1 Type: PoleName

Definitions of Historic Events

A0E5	41189	Secondary Mech Reset Test Complete	IMS[DSP]	Normal	Data 1: Data1 Type: PoleName
A0E6	41190	Operation Restart During Reset	IMS[DSP]	Normal	
A0E7	41191	Error - Close Position Out of Range	IMS[DSP]	Normal	Stable close position measured out of range.
A0E8	41192	Error - Position Incorrect ON	IMS[DSP]	Normal	Pole does not end up in the correct position after operation (i.e. if closed ends up open or if opened ends up closed).
A0E9	41193	Alarm - Excessive Overtravel Off	IMS[DSP]	Normal	Overtravel during operation is ok.
A0EA	41194	IMS/ACW ISR Interleave Mismatch	IMS[DSP]	Normal	
A0EB	41195	IMS ISR Excess Duration	IMS[DSP]	Normal	
A0EC	41196	IMS/PNG Wrong Touch Reported	IMS[DSP]	Normal	
A0ED	41197	IMS/BMM Save Request	IMS[DSP]	Normal	
A0EE	41198	IMS/BMM New Copy Loaded	IMS[DSP]	Normal	
A0EF	41199	IMS/BMM Status Update	IMS[DSP]	Normal	
A0F0	41200	Primary State Now	IMS[DSP]	Normal	Data 1: Data1 Type: PoleName Data 2: Data2 Type: IMSPriState Data 3: IMS counter Data3 Type: RAW
A0F1	41201	Execute 2ndary latching operation	IMS[DSP]	Normal	Data 1: Data1 Type: PoleName Data 2: counter Data2 Type: RAW
A0F2	41202	Warn: 2ndary Plunger NotOpeningOFF	IMS[DSP]	Normal	Secondary Plunger does open during PulseClosing operation.
A0F3	41203	Bad Voltage Sensor On	IMS[DSP]	Normal	Bad Voltage Sensor Detected
A0F4	41204	Bad Voltage Sensor Off	IMS[DSP]	Normal	Bad Voltage Sensor Cleared
A0F5	41205	IMS Incident Logger	IMS[DSP]	Normal	Data 1: Incident Id Data1 Type: IMSIncidentName Data 2: Pole Data2 Type: PoleName Data 3: Misc. Data Data3 Type: ushort Data 4: Count Data4 Type: ushort
A0F6	41206	Pulsing Disabd. Touch OutofRange On	IMS[DSP]	Normal	Contact touch during 3 consecutive Close operations out of range.
A0F7	41207	Pulsing Disabd. Cls OutofRange Off	IMS[DSP]	Normal	Contact touch during Close operation ok.
A0FA	41210	Pole travel below limit OFF	IMS[DSP]	Normal	Stable close position measured in range.
A0FB	41211	Pulse Analysis Complete	EVT[DSP]	Normal	Data 1: Pole Name Data1 Type: PoleName

Definitions of Historic Events

					Data 2: Analysis result Data2 Type: PNGAnalysisResult Data 3:Analysis result details Data3 Type: ushort
A0FC	41212	Pulse Analysis Data	EVT[DSP]	Normal	Data 1: Predicted feeder current in Amps Data1 Type: PNGPredictedFeederCurrent Data 2: Pulse closing angle per unit Data2 Type: PNGPulseAngle
A0FD	41213	Error - Position Incorrect OFF	IMS[DSP]	Normal	Pole does end up in the correct position after operation (i.e. if closed ends up close or if open ends up open).
A0FE	41214	Pulsing Disabd. Pulse OutofRangeOff	IMS[DSP]	Normal	Contact touch during Pulse operation in range.
A0FF	41215	Directional Element Fault on Y off	PRO[DSP]	Normal	Data 1: Zero sequence trace info Data1 Type: Hexushort Data 2: Negative sequence trace info. Data2 Type: ns_traceInfo Data 3: Phase trace info Data3 Type: phase_traceInfo Data 4: Auxiliary data of the DE algorithm workflow Data4 Type: DEauxData
A100	41216	Coord Curve Shift Direction Y	ATX[DSP]	Normal	External command or sequence coordination element requested a shift
A101	41217	Coordination Curve Shift Dir Y off	ATX[DSP]	Normal	External command or reset timer forced initial trip settings
A102	41218	Pulsing Enabled - Encoder Output	IMS[DSP]	Normal	During Pulse encoder output ok.
A103	41219	Pulsing Disabd. NoEncoderReset Off	IMS[DSP]	Normal	Encoder does reset to 0 counts prior to a Pulse or Close operation.
A104	41220	Phase Loss Not Detected	PRO[DSP]	Normal	Data 1: Relay Instance Data1 Type: ATXPLInstanceType Data 2: Zero sequence or negative sequence voltage in Volts Data2 Type: ushort
A105	41221	Insuff. energy during operation on	IMS[DSP]	Normal	Unexpected insufficient energy during an operation.
A106	41222	Insuff. energy during operation off	IMS[DSP]	Normal	No unexpected insufficient energy during an operation.
A107	41223	Error - Main Coil Current ON	IMS[DSP]	Normal	Unsuccessful coil test.
A108	41224	Error - Main Coil Current OFF	IMS[DSP]	Normal	Successful coil test.
A109	41225	Remaining Contact Wear Low On	IMS[DSP]	Normal	Remaining Contact Wear Low.
A10A	41226	Remaining Contact Wear Low Off	IMS[DSP]	Normal	Remaining Contact Wear Ok.
A10E	41230	Pole 1 Closed	EVT[DSP]	Normal	
A10F	41231	Pole 1 Closed OFF	IMS[DSP]	Normal	
A110	41232	Pole 2 Closed	EVT[DSP]	Normal	
A111	41233	Pole 2 Closed OFF	IMS[DSP]	Normal	
A112	41234	Pole 3 Closed	EVT[DSP]	Normal	
A113	41235	Pole 3 Closed OFF	IMS[DSP]	Normal	
A114	41236	Pole 1 Open	EVT[DSP]	Normal	
A115	41237	Pole 1 Open OFF	IMS[DSP]	Normal	
A116	41238	Pole 2 Open	EVT[DSP]	Normal	
A117	41239	Pole 2 Open OFF	IMS[DSP]	Normal	

Definitions of Historic Events

A118	41240	Pole 3 Open	EVT[DSP]	Normal	
A119	41241	Pole 3 Open OFF	IMS[DSP]	Normal	
A11A	41242	IntelliRupter Closed	IMS[DSP]	Normal	
A11B	41243	IntelliRupter Closed OFF	IMS[DSP]	Normal	
A11C	41244	IntelliRupter Open	IMS[DSP]	Normal	
A11D	41245	IntelliRupter Open OFF	IMS[DSP]	Normal	
A11E	41246	Mechanism Error	IMS[DSP]	Normal	Rollup point for any mechanism error active.
A11F	41247	Mechanism Error OFF	IMS[DSP]	Normal	No mechanism error active.
A120	41248	Mechanism Alarm ON	IMS[DSP]	Normal	Rollup point for any mechanism alarm active.
A121	41249	Mechanism Alarm OFF	IMS[DSP]	Normal	No mechanism alarm active.
A122	41250	Mechanism Warning ON	IMS[DSP]	Normal	Rollup point for any mechanism warning active.
A123	41251	Mechanism Warning OFF	IMS[DSP]	Normal	No mechanism warning active..
A124	41252	Bad Voltage Sensor Information	IMS[DSP]	Normal	Bad Voltage Sensor Information. Data 1: Pole Data1 Type: PoleName Data 2: Bad Sensor Index Data2 Type: BadSensorIndex Data 3: X Side Voltage Data3 Type: ushort Data 4: Y Side Voltage Data4 Type: ushort
A127	41255	Alarm - Excessive Overtravel On	IMS[DSP]	Normal	Overtravel during operation is too large.
A128	41256	Warning Current Prof. incorrect ON	IMS[DSP]	Normal	Current Profile points out of Range.
A129	41257	Warning Current Prof. incorrect OFF	IMS[DSP]	Normal	Current Profile points not out of Range.
A12B	41259	Latched Overcurrent Condition On	ATX[DSP]	Normal	
A12D	41261	Integrated Pwr Module State Changed	IPM[DSP]	Normal	Data 1: New IPM State Data1 Type: IPMState Data 2: Old IPM State Data2 Type: IPMState
A12E	41262	Main Capacitor Bank Low Voltage	IPM[DSP]	Normal	Main capacitor bank voltage is low. Data 1: Main bank voltage in Volts Data1 Type: ushort
A12F	41263	Main Capacitor Bank Normal Voltage	IPM[DSP]	Normal	Main capacitor bank voltage is normal. Data 1: Main bank voltage in Volts Data1 Type: ushort
A130	41264	Slow Capacitor Charge	IPM[DSP]	Normal	Capacitor charging too slow. Data 1: Main bank voltage in Volts Data1 Type: ushort Data 2: Secondary bank voltage in Volts Data2 Type: ushort
A131	41265	Normal Capacitor Charge	IPM[DSP]	Normal	Capacitor charging at normal rate. Data 1: Main bank voltage in Volts Data1 Type: ushort Data 2: Secondary bank voltage in Volts Data2 Type: ushort
A132	41266	Slow Capacitor Charge Rate	IPM[DSP]	Normal	Data 1: Charge Rate in Volts/10s Data1 Type: ushort Data 2: Alarm counter Data2 Type: ushort

Definitions of Historic Events

					Data 3: Capacitor Bank Data3 Type: CapBank Data 4: Capacitor Bank Voltage Data4 Type: ushort
A133	41267	Capacitors Not Charging	IPM[DSP]	Normal	Data 1: Capacitor Bank Data1 Type: CapBank Data 2: Charge rate in V/10ses Data2 Type: ushort
A134	41268	Cap Bank Interconnection Issue	IPM[DSP]	All	Main and secondary capacitor bank isolating diodes are shorted. Data 1: Main bank voltage in Volts Data1 Type: ushort Data 2: Secondary bank voltage in Volts Data2 Type: ushort
A135	41269	Unequal Capacitor Bank Voltages	IPM[DSP]	Normal	Main and secondary capacitor bank isolating diodes are open. Data 1: Main bank voltage in Volts Data1 Type: ushort Data 2: Secondary bank voltage in Volts Data2 Type: ushort
A136	41270	Equal Capacitor Bank Voltages	IPM[DSP]	Normal	Main and secondary capacitor bank isolating diodes are not open. Data 1: Main bank voltage in Volts Data1 Type: ushort Data 2: Secondary bank voltage in Volts Data2 Type: ushort
A137	41271	Capac. Charge Disabd warning set	IPM[DSP]	Normal	Capacitor charging has been disabled.
A138	41272	Capacitor charge disabled alarm set	IPM[DSP]	Normal	Capacitors are not charging correctly. Data 1: Main bank voltage in Volts Data1 Type: ushort Data 2: Secondary bank voltage in Volts Data2 Type: ushort
A139	41273	Main Capacitor Charge ON	IPM[DSP]	Normal	Data 1: Main bank voltage in Volts Data1 Type: ushort Data 2: Secondary bank voltage in Volts Data2 Type: ushort
A13A	41274	Main Capacitor Charge OFF	IPM[DSP]	Normal	Data 1: Main bank voltage in Volts Data1 Type: ushort Data 2: Secondary bank voltage in Volts Data2 Type: ushort
A13B	41275	Loss of Control Power	IPM[DSP]	Normal	
A13C	41276	Primary Temperature Sensor Issue	IPM[DSP]	All	Temperature sensor output is out of range. Data 1: Primary sensor temperature in degrees Data1 Type: ushort Data 2: Secondary sensor temperature in degrees Data2 Type: ushort
A13D	41277	Primary Temperature Sensor OK	IPM[DSP]	Normal	Temperature sensor output is not out of range. Data 1: Primary sensor temperature in degrees Data1 Type: ushort Data 2: Secondary sensor temperature in degrees Data2 Type: ushort
A13E	41278	Secondary Temperature Sensor Issue	IPM[DSP]	All	Temperature sensor output is out of range. Data 1: Primary sensor temperature in degrees Data1 Type: ushort Data 2: Secondary sensor temperature in degrees Data2 Type: ushort
A13F	41279	Secondary Temperature Sensor OK	IPM[DSP]	Normal	Temperature sensor output is not out of range. Data 1: Primary sensor temperature in degrees Data1 Type: ushort Data 2: Secondary sensor temperature in degrees Data2 Type: ushort

A140	41280	Energy Budget Details	IPM[DSP]	Normal	<p>Data 1: Requested energy in Joules <i>Data1 Type: ushort</i> Data 2: Available energy in Joules <i>Data2 Type: ushort</i> Data 3: Main bank voltage in Volts <i>Data3 Type: CapVoltage</i> Data 4: Secondary bank voltage in Volts <i>Data4 Type: CapVoltage</i></p>
A141	41281	Bank Capacitance Recalculated	IPM[DSP]	Normal	<p>Data 1: Main bank capacitance in uF <i>Data1 Type: ushort</i> Data 2: Secondary bank capacitance in uF <i>Data2 Type: ushort</i> Data 3: Directly calculated main bank capacitance in uF <i>Data3 Type: ushort</i> Data 4: Cap bank temperature used for capacitance compensation in °C <i>Data4 Type: ushort</i></p>
A142	41282	Energy Storage Capacity Below 50%	IPM[DSP]	Normal	<p>Energy storage capacity has dropped below 50% of its nominal value.</p> <p>Data 1: Calculated Main bank capacitance in uF <i>Data1 Type: ushort</i> Data 2: Calculated Secondary bank capacitance in uF <i>Data2 Type: ushort</i> Data 3: Initial Main bank capacitance in uF <i>Data3 Type: ushort</i> Data 4: Initial Secondary bank capacitance in uF <i>Data4 Type: ushort</i></p>
A143	41283	Energy Storage Capacity Below 80%	IPM[DSP]	Normal	<p>Energy storage capacity has dropped below 80% of its nominal value.</p> <p>Data 1: Calculated Main bank capacitance in uF <i>Data1 Type: ushort</i> Data 2: Calculated Secondary bank capacitance in uF <i>Data2 Type: ushort</i> Data 3: Initial Main bank capacitance in uF <i>Data3 Type: ushort</i> Data 4: Initial Secondary bank capacitance in uF <i>Data4 Type: ushort</i></p>
A144	41284	Energy Storage Capacity Above 50%	IPM[DSP]	Normal	<p>Energy storage capacity has not dropped below 50% of its nominal value.</p> <p>Data 1: Calculated Main bank capacitance in uF <i>Data1 Type: ushort</i> Data 2: Calculated Secondary bank capacitance in uF <i>Data2 Type: ushort</i> Data 3: Initial Main bank capacitance in uF <i>Data3 Type: ushort</i> Data 4: Initial Secondary bank capacitance in uF <i>Data4 Type: ushort</i></p>
A145	41285	Energy Storage Capacity Above 80%	IPM[DSP]	Normal	<p>Energy storage capacity has not dropped below 80% of its nominal value.</p> <p>Data 1: Calculated Main bank capacitance in uF <i>Data1 Type: ushort</i> Data 2: Calculated Secondary bank capacitance in uF <i>Data2 Type: ushort</i> Data 3: Initial Main bank capacitance in uF <i>Data3 Type: ushort</i> Data 4: Initial Secondary bank capacitance in uF <i>Data4 Type: ushort</i></p>
A146	41286	Capac Charge Disabd warning cleared	IPM[DSP]	Normal	<p>Capacitor charging has not been disabled.</p> <p>Data 1: Main bank voltage in Volts <i>Data1 Type: ushort</i> Data 2: Secondary bank voltage in Volts <i>Data2 Type: ushort</i></p>

Definitions of Historic Events

A147	41287	Operation Prohibited	IPM[DSP]	Extended	Data 1: Main Cap Capacity uF <i>Data1 Type: ushort</i> Data 2: Secondary Cap Capacity uF <i>Data2 Type: ushort</i>
A148	41288	Command Suspended	ATX[DSP]	Normal	Data 1: Command Code <i>Data1 Type: CommandCode</i> Data 2: ATX State <i>Data2 Type: ATXState</i>
A149	41289	Pending Command Activated	ATX[DSP]	Normal	Data 1: Command Code <i>Data1 Type: CommandCode</i>
A14A	41290	ATX Control Timer Started	ATX[DSP]	Extended	Data 1: ATX Control Timer <i>Data1 Type: ATXTimer</i> Data 2: ATX State <i>Data2 Type: ATXState</i>
A14B	41291	ATX Control Timer Expired	ATX[DSP]	Extended	Data 1: ATX Control Timer <i>Data1 Type: ATXTimer</i> Data 2: ATX State <i>Data2 Type: ATXState</i>
A14C	41292	Control Unlatched-EmergencyShutdown	ATX[DSP]	Normal	
A14D	41293	Source Lost in Test Sequence	EVT[DSP]	Normal	Data 1: Positive Sequence Voltage X <i>Data1 Type: DriverValueVoltage</i> Data 2: Positive Sequence Voltage Y <i>Data2 Type: DriverValueVoltage</i> Data 3: Voltage Threshold <i>Data3 Type: DriverValueVoltage</i>
A14E	41294	BackFeed Still Present	EVT[DSP]	Normal	
A14F	41295	Abort Sequence Coord due to Trip	ATX[DSP]	Normal	
A150	41296	Last Recorded Position Is	ATX[DSP]	Normal	Data 1: IR State <i>Data1 Type: IRPosition</i> Data 2: Status of last IMS operation <i>Data2 Type: IMSCompletion</i> Data 3: List of closed poles <i>Data3 Type: PoleMask</i>
A151	41297	Pulse Nonfunctional - Open	ATX[DSP]	Normal	
A152	41298	2nd Closing Prof Chosen by a Lever	EVT[DSP]	Normal	
A153	41299	Waiting for secondary cap voltage	ATX[DSP]	Normal	
A154	41300	Capacitor Bank Interconnection OK	IPM[DSP]	All	Main and secondary capacitor bank isolating diodes are not shorted. Data 1: Main bank voltage in Volts <i>Data1 Type: ushort</i> Data 2: Secondary bank voltage in Volts <i>Data2 Type: ushort</i>
A155	41301	Capac. charge disabd alarm cleared	IPM[DSP]	All	Capacitors are charging correctly. Data 1: Main bank voltage in Volts <i>Data1 Type: ushort</i> Data 2: Secondary bank voltage in Volts <i>Data2 Type: ushort</i>
A156	41302	Shutdown Sequencing Error Set	IPM[DSP]	All	Error during power down sequencing.
A157	41303	SEEPROM Issue Cleared	ATX[DSP]	All	No more problems with serial EEPROM operations.

Definitions of Historic Events

					Data 1: Error Source Data1 Type: SEEPErrorCode
A158	41304	Comm Proc Handshake Issue	ATX[DSP]	Normal	MCU did not issue a command in time. Restricted protection mode started.
A159	41305	Comm Proc Handshake Success	ATX[DSP]	Normal	Handshake completed - ATXRun command received by DSP in time.
A15A	41306	Control Power Out Time Determined	ATX[DSP]	Normal	The time when the DSP processor stopped could be determined.
A15B	41307	Cap Charging Error Set	IPM[DSP]	All	One of the capacitor banks is not charging.
A15C	41308	Cap Charging Error Cleared	IPM[DSP]	All	Capacitor bank charging is OK.
A15D	41309	Shutdown Sequencing Error Cleared	IPM[DSP]	All	No error during power down sequencing.
A15E	41310	Waveform Capture Initialized	WFC[DSP]	Extended	
A15F	41311	WFC Pre-Event Filled	WFC[DSP]	Extended	
A160	41312	Waveform Capture Triggered	WFC[DSP]	Normal	Data 1: WFC Trigger Data1 Type: WFCTrigger Data 2: Trigger Instance Data2 Type: WFCTriggerInstance
A161	41313	Waveform Capture Secondary Trigger	WFC[DSP]	Normal	Data 1: WFC Trigger Data1 Type: WFCTrigger Data 2: Trigger Instance Data2 Type: WFCTriggerInstance
A162	41314	Primary Capture Started	WFC[DSP]	Extended	
A163	41315	Waveform Capture Frozen	WFC[DSP]	Normal	
A164	41316	Waveform Capture Unfrozen	WFC[DSP]	Normal	
A165	41317	Trigger Ignored: WFC Frozen	WFC[DSP]	Normal	
A166	41318	Secondary Capture Started	WFC[DSP]	Extended	
A167	41319	Trigger Ignored: Insufficient space	WFC[DSP]	Extended	
A168	41320	Executed operations	IPM[DSP]	Normal	Number and types of mechanism operations that have been actually executed. Data 1: Number of open operations Data1 Type: ushort Data 2: Number of close operations Data2 Type: ushort Data 3: Number of pulse operations Data3 Type: ushort Data 4: Number of secondary resets Data4 Type: ushort
A169	41321	Requested operations	IPM[DSP]	Normal	Number and types of mechanism operations that IMS has requested energy for. Data 1: Number of open operations Data1 Type: ushort Data 2: Number of close operations Data2 Type: ushort Data 3: Number of pulse operations Data3 Type: ushort Data 4: Number of secondary resets Data4 Type: ushort
A16A	41322	Capacitors Voltage Change	IPM[DSP]	Normal	Capacitor voltages drop due to mechanism operation. Data 1: Main cap bank voltage before the operation Data1 Type: CapVoltage

Definitions of Historic Events

					Data 2: Secondary cap bank voltage before the operation Data2 Type: CapVoltage Data 3: Main cap bank voltage after the operation Data3 Type: CapVoltage Data 4: Total measured capacity in uF Data4 Type: ushort
A16B	41323	Op Prohibited - Secondary low	IPM[DSP]	Normal	Data 1: Main cap bank voltage in Volts Data1 Type: CapVoltage Data 2: Main cap bank voltage in Volts Data2 Type: CapVoltage
A16C	41324	Pulse Nonfunctional - Block Close	ATX[DSP]	Normal	Pulse Nonfunctional - Block Close.
A16D	41325	Clear Block Close on Pulse Nonfunc	ATX[DSP]	Normal	Clear Block Close (Pulse Nonfunctional).
A16E	41326	Current Restraint-Phase in Effect	EVT[DSP]	Normal	1-Phase operations blocked (Current Restraint-Phase).
A16F	41327	Current Restraint-Phase Off	EVT[DSP]	Normal	1-Phase operations allowed (Current Restraint-Phase).
A170	41328	Current Restraint-Ground in Effect	EVT[DSP]	Normal	1-Phase operations blocked (Current Restraint-Ground).
A171	41329	Current Restraint-Ground Off	EVT[DSP]	Normal	1-Phase operations allowed (Current Restraint-Ground).
A172	41330	IMS STUB: Close1 Fired	ATX[DSP]	Normal	Debug message - should not appear in production. Data 1: Pole Name Data1 Type: PoleName
A173	41331	IMS STUB: Open1 Done	ATX[DSP]	Normal	Debug message - should not appear in production. Data 1: Pole Name Data1 Type: PoleName
A174	41332	Lockout - Pole 1	EVT[DSP]	Normal	
A175	41333	Lockout - Pole 1 Off	ATX[DSP]	Normal	
A176	41334	Lockout - Pole 2	EVT[DSP]	Normal	
A177	41335	Lockout - Pole 2 Off	ATX[DSP]	Normal	
A178	41336	Lockout - Pole 3	EVT[DSP]	Normal	
A179	41337	Lockout - Pole 3 Off	ATX[DSP]	Normal	
A17A	41338	PNG Fault - Pole 1	ATX[DSP]	Normal	
A17B	41339	PNG Fault - Pole 1 Off	ATX[DSP]	Normal	
A17C	41340	PNG Fault - Pole 2	ATX[DSP]	Normal	
A17D	41341	PNG Fault - Pole 2 Off	ATX[DSP]	Normal	
A17E	41342	PNG Fault - Pole 3	ATX[DSP]	Normal	
A17F	41343	PNG Fault - Pole 3 Off	ATX[DSP]	Normal	
A180	41344	1-Phase Operation Blocked	EVT[DSP]	Normal	
A181	41345	1-Phase Operation Allowed	EVT[DSP]	Normal	
A182	41346	GTB Lever Applied	EVT[DSP]	Normal	Ground Trip Block manual lever is in ON position.
A183	41347	GTB Lever Not Applied	EVT[DSP]	Normal	Ground Trip Block manual lever is in OFF position.
A184	41348	Phase Rotation Change Rejected	ATX[DSP]	Normal	User-defined system rotation can not be accepted. There is no viable voltage on all poles to measure the rotation.
A185	41349	Capacitor Driver Disabled	ATX[DSP]	Normal	

Definitions of Historic Events

A186	41350	Capacitor Driver Enabled	ATX[DSP]	Normal	
A187	41351	Sleep Time Determination Issue	ATX[DSP]	Normal	Data 1: New Time Source Data1 Type: DSPTimeSource Data 2: Old Time Source Data2 Type: DSPTimeSource
A188	41352	HLT Lever Position Indeterminate	ATX[DSP]	Normal	
A189	41353	2ndary Cap Still Low-Init Stopped	ATX[DSP]	Normal	Data 1: Secondary capacitor voltage Data1 Type: ushort
A18A	41354	Calibration Data Alarm ON	ATX[DSP]	Normal	Either of application board or CCP board calibration data CRC is bad.
A18B	41355	Calibration Data Alarm OFF	ATX[DSP]	Normal	All control calibration data CRC are OK.
A18C	41356	Wrong Sensor Calibration Data CRC	ATX[DSP]	Normal	Sensor calibration data CRC is bad.
A18D	41357	Sensor Calibration Data OK	ATX[DSP]	Normal	Sensor calibration data CRC is okay.
A18E	41358	Emergency Shutdown Started	ATX[DSP]	Normal	
A18F	41359	Control Relatched	ATX[DSP]	Normal	
A190	41360	Error Status Reported	ATX[DSP]	Normal	DSP Error Condition On.
A191	41361	Error Status Cleared	ATX[DSP]	Normal	DSP Error Condition Off.
A192	41362	ATX Error Status Reported	ATX[DSP]	Normal	ATX Error State On.
A193	41363	ATX Error Status Cleared	ATX[DSP]	Normal	ATX Error State Off.
A194	41364	Voltage Present on X	ATX[DSP]	Normal	Voltage is present on side X terminals.
A195	41365	Voltage Not Present on X	ATX[DSP]	Normal	Voltage is not present on side X terminals.
A196	41366	Protection Proc Reset	ATX[DSP]	Normal	DSP Reset.
A197	41367	Prot Proc Reset Cleared	ATX[DSP]	Normal	DSP Reset acknowledged.
A198	41368	Manual Lever Down	EVT[DSP]	Normal	Manual Lever Down.
A199	41369	Manual Lever Up	EVT[DSP]	Normal	Manual Lever Up.
A19A	41370	Current Direction Y->X On	PRO[DSP]	Normal	Current Direction Y->X On.
A19B	41371	Voltage Present on Y	ATX[DSP]	Normal	Voltage is present on side Y terminals.
A19C	41372	Current Direction X->Y On	PRO[DSP]	Normal	Current X->Y Detected.
A19D	41373	Voltage Not Present on Y	ATX[DSP]	Normal	Voltage is not present on side Y terminals.
A19E	41374	ITII Overcurrent Pole 1	PRO[DSP]	Normal	ITII Overcurrent Pole 1.
A19F	41375	ITII Overcurrent Pole 1 Cleared	PRO[DSP]	Normal	ITII Overcurrent Pole 1 Cleared.
A1A0	41376	ITII Overcurrent Pole 2	PRO[DSP]	Normal	ITII Overcurrent Pole 2.
A1A1	41377	ITII Overcurrent Pole 2 Cleared	PRO[DSP]	Normal	ITII Overcurrent Pole 2 Cleared.

Definitions of Historic Events

A1A2	41378	ITII Overcurrent Pole 3	PRO[DSP]	Normal	ITII Overcurrent Pole 3.
A1A3	41379	ITII Overcurrent Pole 3 Cleared	PRO[DSP]	Normal	ITII Overcurrent Pole 3 Cleared.
A1A4	41380	Ground Trip Blocked	EVT[DSP]	Normal	Ground Trip Blocked.
A1A5	41381	Ground Trip Allowed	EVT[DSP]	Normal	Ground Trip Allowed.
A1A6	41382	Test On Backfeed Blocked	EVT[DSP]	Normal	Test On Backfeed Blocked.
A1A7	41383	Test On Backfeed Allowed	EVT[DSP]	Normal	Test On Backfeed Allowed.
A1A8	41384	Tripped to Lockout	EVT[DSP]	Normal	Tripped to Lockout.
A1A9	41385	Tripped to Lockout Cleared	ATX[DSP]	Normal	Tripped to Lockout Cleared.
A1AA	41386	Fault Cycling Active DSP	EVT[DSP]	Normal	Fault Cycling Active.
A1AB	41387	Fault Cycling Reset DSP	EVT[DSP]	Normal	Fault Cycling Reset.
A1AC	41388	Orderly Shutdown Started	ATX[DSP]	Normal	Imminent Control Power Loss.
A1AD	41389	Orderly Shutdown Cleared	ATX[DSP]	Normal	Control Power OK.
A1AE	41390	WiFi Connected	ATX[DSP]	Normal	WiFi Connected.
A1AF	41391	WiFi Disconnected	ATX[DSP]	Normal	Disconnected.
A1B0	41392	Closed and Quiet	EVT[DSP]	Normal	Closed and Quiet.
A1B1	41393	Closed and Quiet Off	ATX[DSP]	Normal	Not Closed or Quiet.
A1B2	41394	ATX Manual Operation	ATX[DSP]	Normal	ATX Manual Operation.
A1B3	41395	ATX Manual Operation Cleared	ATX[DSP]	Normal	ATX Manual Operation Cleared.
A1B4	41396	Good Source X Voltage	ATX[DSP]	Normal	Good Source X Voltage.
A1B5	41397	Source X Voltage Not Ideal	ATX[DSP]	Normal	Source X Voltage Not Ideal.
A1B6	41398	Good Source Y Voltage	ATX[DSP]	Normal	Good Source Y Voltage.
A1B7	41399	Source Y Voltage Not Ideal	ATX[DSP]	Normal	Source Y Voltage Not Ideal.
A1B8	41400	General Profile 1 Active	EVT[DSP]	Normal	General Profile 1 Active.
A1B9	41401	General Profile 1 Not Active	ATX[DSP]	Normal	General Profile 1 Not Active.
A1BA	41402	General Profile 2 Active	EVT[DSP]	Normal	General Profile 2 Active.
A1BB	41403	General Profile 2 Not Active	ATX[DSP]	Normal	General Profile 2 Not Active.
A1BC	41404	General Profile 3 Active	EVT[DSP]	Normal	General Profile 3 Active.
A1BD	41405	General Profile 3 Not Active	ATX[DSP]	Normal	General Profile 3 Not Active.
A1BE	41406	General Profile 4 Active	EVT[DSP]	Normal	General Profile 4 Active.

A1BF	41407	General Profile 4 Not Active	ATX[DSP]	Normal	General Profile 4 Not Active.
A1C0	41408	Closing Profile 1 Active	EVT[DSP]	Normal	Closing Profile 1 Active.
A1C1	41409	Closing Profile 1 Not Active	ATX[DSP]	Normal	Closing Profile 1 Not Active.
A1C2	41410	Closing Profile 2 Active	EVT[DSP]	Normal	Closing Profile 2 Active.
A1C3	41411	Closing Profile 2 Not Active	ATX[DSP]	Normal	Closing Profile 2 Not Active.
A1C4	41412	SEF Trip Blocked	EVT[DSP]	Normal	SEF Trip Blocked.
A1C5	41413	SEF Trip Allowed	EVT[DSP]	Normal	SEF Trip Allowed.
A1C6	41414	Use 2nd Closing Prof On Next Close	EVT[DSP]	Normal	Use 2nd Closing Profile On Next Close.
A1C7	41415	Use 1st Closing Prof On Next Close	EVT[DSP]	Normal	Use 1st Closing Profile On Next Close.
A1C8	41416	Hot-Line Tag Set by Lever	EVT[DSP]	Normal	Hot-Line Tag Set by Lever.
A1C9	41417	Hot-Line Tag Lever Reset	EVT[DSP]	Normal	Hot-Line Tag Lever Reset.
A1CA	41418	Hot-Line Tag Set by SCADA	EVT[DSP]	Normal	Hot-Line Tag Set by SCADA.
A1CB	41419	Hot-Line Tag Reset by SCADA	EVT[DSP]	Normal	Hot-Line Tag Reset by SCADA.
A1CC	41420	Hot-Line Tag Set by IntelliLink	EVT[DSP]	Normal	Hot-Line Tag Set by IntelliLink
A1CD	41421	Hot-Line Tag Reset by IntelliLink	EVT[DSP]	Normal	Hot-Line Tag Reset by IntelliLink
A1CE	41422	Hot-Line Tag Set by I-Link Remote	EVT[DSP]	Normal	Hot-Line Tag Set by I-Link Remote.
A1CF	41423	Hot-Line Tag Reset by I-Link Remote	EVT[DSP]	Normal	Hot-Line Tag Reset by I-Link Remote.
A1D0	41424	Overcurrent Trip Pole 1	ATX[DSP]	Normal	Overcurrent Trip Pole 1.
A1D1	41425	Overcurrent Trip Pole 1 Cleared	ATX[DSP]	Normal	Overcurrent Trip Pole 1 Cleared.
A1D2	41426	Overcurrent Trip Pole 2	ATX[DSP]	Normal	Overcurrent Trip Pole 2.
A1D3	41427	Overcurrent Trip Pole 2 Cleared	ATX[DSP]	Normal	Overcurrent Trip Pole 2 Cleared.
A1D4	41428	Overcurrent Trip Pole 3	ATX[DSP]	Normal	Overcurrent Trip Pole 3.
A1D5	41429	Overcurrent Trip Pole 3 Cleared	ATX[DSP]	Normal	Overcurrent Trip Pole 3 Cleared.
A1D6	41430	Trip Target Pole 1 X	EVT[DSP]	Normal	Trip Target Pole 1 X.
A1D7	41431	Trip Target Pole 1 X Cleared	ATX[DSP]	Normal	Trip Target Pole 1 X Cleared.
A1D8	41432	Trip Target Pole 2 X	EVT[DSP]	Normal	Trip Target Pole 2 X.
A1D9	41433	Trip Target Pole 2 X Cleared	ATX[DSP]	Normal	Trip Target Pole 2 X Cleared.
A1DA	41434	Trip Target Pole 3 X	EVT[DSP]	Normal	Trip Target Pole 3 X.
A1DB	41435	Trip Target Pole 3 X Cleared	ATX[DSP]	Normal	Trip Target Pole 3 X Cleared.

Definitions of Historic Events

A1DC	41436	Trip Target Pole 1 Y	EVT[DSP]	Normal	Trip Target Pole 1 Y.
A1DD	41437	Trip Target Pole 1 Y Cleared	ATX[DSP]	Normal	Trip Target Pole 1 Y Cleared.
A1DE	41438	Trip Target Pole 2 Y	EVT[DSP]	Normal	Trip Target Pole 2 Y.
A1DF	41439	Trip Target Pole 2 Y Cleared	ATX[DSP]	Normal	Trip Target Pole 2 Y Cleared.
A1E0	41440	Trip Target Pole 3 Y	EVT[DSP]	Normal	Trip Target Pole 3 Y.
A1E1	41441	Trip Target Pole 3 Y Cleared	ATX[DSP]	Normal	Trip Target Pole 3 Y Cleared.
A1E2	41442	Overcurrent Trip	EVT[DSP]	Normal	Overcurrent Trip.
A1E3	41443	Overcurrent Trip Cleared	ATX[DSP]	Normal	Overcurrent Trip Cleared.
A1E4	41444	Voltage Trip	EVT[DSP]	Normal	Voltage Trip.
A1E5	41445	Voltage Trip Cleared	ATX[DSP]	Normal	Voltage Trip Cleared.
A1E6	41446	Frequency Trip	EVT[DSP]	Normal	Frequency Trip.
A1E7	41447	Frequency Trip Cleared DSP	ATX[DSP]	Normal	Frequency Trip Cleared.
A1E8	41448	Sectionalizer Trip	EVT[DSP]	Normal	Sectionalizer Trip.
A1E9	41449	Sectionalizer Trip Cleared	ATX[DSP]	Normal	Sectionalizer Trip Cleared.
A1EA	41450	Testing Blocked	EVT[DSP]	Normal	Testing Blocked On.
A1EB	41451	Testing Allowed	EVT[DSP]	Normal	Testing Allowed.
A1EC	41452	Alternate Profile Default	ATX[DSP]	Normal	Alternate Profile Default.
A1ED	41453	Normal Profile Default	ATX[DSP]	Normal	Alternate Profile Default Off.
A1EE	41454	Open Command Ignored - Already Open	EVT[DSP]	Normal	
A1EF	41455	Close Cmd Ignored	EVT[DSP]	Normal	Data 1: Data1 Type: CloseCmdIgnoredReason Data 4: Data4 Type: CloseIgnoredCmd
A1F0	41456	Trip on Loss of Energy	ATX[DSP]	Normal	Trip on Loss of Energy On.
A1F1	41457	Trip on Loss of Energy OFF	ATX[DSP]	Normal	Trip on Loss of Energy.
A1F2	41458	Close Blocked by Synch Check	EVT[DSP]	Normal	Close Blocked by Synch Check.
A1F3	41459	Close Allowed	ATX[DSP]	Normal	Close Not Blocked by Synch Check.
A1F4	41460	Phase Rot. Indeterminate Alarm On	MSC[DSP]	Normal	Phase Rotation could not be determined.
A1F5	41461	Phase Rot. Indeterminate Alarm Off	MSC[DSP]	Normal	Phase Rotation could be determined.
A1F6	41462	SEF Timing	EVT[DSP]	Normal	SEF Element Timing.
A1F7	41463	SEF Not Timing	PRO[DSP]	Normal	SEF Timing Off.
A1F8	41464	SEF Tripped	EVT[DSP]	Normal	SEF Tripped.
A1F9	41465	SEF Not Tripped	PRO[DSP]	Normal	SEF Tripped Off.
A1FA	41466	SEF Trip to Lockout	EVT[DSP]	Normal	SEF Trip to Lockout.
A1FB	41467	SEF Trip to Lockout	PRO[DSP]	Normal	SEF Trip to Lockout Off.

Definitions of Historic Events

		Off			
A1FC	41468	SEF Testing	EVT[DSP]	Normal	SEF Testing.
A1FD	41469	SEF Not Testing	ATX[DSP]	Normal	SEF Testing Off.
A1FE	41470	Current Direction Y->X Off	PRO[DSP]	Normal	Current Direction Y->X Off.
A1FF	41471	Current Direction X->Y Off	PRO[DSP]	Normal	Current Direction X->Y Off.
A200	41472	Low Single-Phase Voltage Alert On	ATX[DSP]	Normal	
A201	41473	Low Single-Phase Voltage Alert Off	ATX[DSP]	Normal	
A202	41474	Low Three-Phase Voltage Alert On	ATX[DSP]	Normal	
A203	41475	Low Three-Phase Voltage Alert Off	ATX[DSP]	Normal	
A204	41476	Phase Overcurrent Alert On	ATX[DSP]	Normal	
A205	41477	Phase Overcurrent Alert Off	ATX[DSP]	Normal	
A206	41478	Ground Overcurrent Alert On	ATX[DSP]	Normal	
A207	41479	Ground Overcurrent Alert Off	ATX[DSP]	Normal	
A208	41480	Pole A Overcurrent Timing On	PRO[DSP]	Normal	
A209	41481	Pole A Overcurrent Timing Off	PRO[DSP]	Normal	
A20A	41482	Pole B Overcurrent Timing On	PRO[DSP]	Normal	
A20B	41483	Pole B Overcurrent Timing Off	PRO[DSP]	Normal	
A20C	41484	Pole C Overcurrent Timing On	PRO[DSP]	Normal	
A20D	41485	Pole C Overcurrent Timing Off	PRO[DSP]	Normal	
A20E	41486	Ground Overcurrent Timing On	PRO[DSP]	Normal	
A20F	41487	Ground Overcurrent Timing Off	PRO[DSP]	Normal	
A210	41488	Bad Frequency Indicator Element	EVT[DSP]	Normal	Under Frequency Detector is in Fully Reset State. Data 1: BFIE Status Data1 Type: BFIEStatus Data 2: BFIE Status Data2 Type: BFIEStatus Data 3: Terminal Data3 Type: good_sourceRelayArg Data 4: Frequency > Data4 Type: DriverValueFrequency
A211	41489	Block Open Source Sect On	EVT[DSP]	Normal	Open Source Sectionalizing is Blocked.
A212	41490	Block Open Source Sect Off	EVT[DSP]	Normal	Open Source Sectionalizing is not Blocked.
A213	41491	Current Exceeds Max OC On	EVT[DSP]	Normal	Current Exceeds Max OC On Data 1: Data1 Type: RelayType Data 2: Data2 Type: RelayNumber Data 3: Data3 Type: ushort

Definitions of Historic Events

A214	41492	Current Exceeds Max OC Off	EVT[DSP]	Normal	Current Exceeds Max OC Off Data 1: Data1 Type: RelayType Data 2: Data2 Type: RelayNumber Data 3: Data3 Type: ushort
A215	41493	Leakage Current Error Check On	EVT[DSP]	Normal	Open Source Sectionalizing is not Blocked.
A216	41494	Leakage Current Error Check Off	EVT[DSP]	Normal	Open Source Sectionalizing is not Blocked.
A217	41495	Leakage Current Error Event	EVT[DSP]	Normal	Open Source Sectionalizing is not Blocked. Data 1: Data1 Type: LeakageTrigger Data 2: Data2 Type: PoleName Data 3: Data3 Type: LeakageCurrent Data 4: Data4 Type: LeakageCurrent
A218	41496	POW Close Override	EVT[DSP]	Normal	POW Close Override w Fault Current Data 1: Data1 Type: POWFaultCurrent Data 2: Data2 Type: POWFaultCurrent Data 3: Data3 Type: POWFaultCurrent Data 4: Data4 Type: POWFaultCurrent
A219	41497	ATX State Change	EVT[DSP]	Normal	ATX State Change. Data 1: Data1 Type: ATXState Data 2: Data2 Type: ATXMode Data 3: Data3 Type: ATXState
A21A	41498	Current gt Max Interrupting Current On	PRO[DSP]	Normal	Current Exceeds Max Interrupting Current On. Data 1: Data1 Type: RelayType Data 2: Data2 Type: PoleMask
A21B	41499	Current gt Max Interrupting Current Off	PRO[DSP]	Normal	Current Exceeds Max Interrupting Current Off. Data 1: Data1 Type: RelayType Data 2: Data2 Type: PoleMask
A21C	41500	Closed Command Rescinded	EVT[DSP]	Normal	Open Source Sectionalizing is not Blocked.
A21D	41501	Volt Supervised SEF Logic Change	PRO[MCU]	Normal	Open Source Sectionalizing is not Blocked. Data 1: Data1 Type: VSSEFStatus Data 4: Data4 Type: VSSEFLogicState
A21E	41502	Prot OC Elems Permitted By Dir El	EVT[DSP]	Normal	Protection OC Permitted by Direction Element Data 1: Faulted side or load side as determined by the Directional Element. Possible values are TermX or TermY or Both. In the latter case all overcurrent elements run without directional supervision. Data1 Type: DETerm Data 2: Mask of overcurrent elements disabled by the Directional Element, MSW. Data2 Type: ushort Data 3: Mask of overcurrent elements disabled by the Directional Element, LSW Data3 Type: ushort Data 4: SEF component of torque Data4 Type: ushort
A22B	41515	Close Pending Sync Check On	EVT[DSP]	Normal	
A22C	41516	Close Pending Sync Check Off	EVT[DSP]	Normal	
A22D	41517	Protect Fault X Latched On	EVT[DSP]	Normal	

A22E	41518	Protect Fault X Latched Off	EVT[DSP]	Normal	
A22F	41519	Protect Fault Y Latched On	EVT[DSP]	Normal	
A230	41520	Protect Fault Y Latched Off	EVT[DSP]	Normal	
A231	41521	Switch TCC to InitialT rip	EVT[DSP]	Normal	Data 1: Data1 Type: Phase
A232	41522	Phasor Captured On	EVT[DSP]	Normal	
A233	41523	Phasor Captured Off	EVT[DSP]	Normal	
A234	41524	External Trip Output Issued	EVT[DSP]	Normal	Data 1: Data1 Type: ExternalOutput Data 2: Data2 Type: ExtTripCommand Data 3: Data3 Type: ExtTripCommand Data 4: Data4 Type: ExtTripCommand
A235	41525	VSSEF Alert X On	PRO[MCU]	Normal	VSSEFAlert X On
A236	41526	VSSEF Alert X Off	PRO[MCU]	Normal	VSSEFAlert X Off
A237	41527	VSSEF Alert Y On	PRO[MCU]	Normal	VSSEFAlert Y On
A238	41528	VSSEF Alert Y Off	PRO[MCU]	Normal	VSSEFAlert Y Off
A239	41529	Leakage Curnt Chk Error On	PRO[MCU]	Normal	
A23A	41530	Leakage Curnt Chk Error Off	PRO[MCU]	Normal	
A23B	41531	Leakage Curnt Chk Warning On	PRO[MCU]	Normal	
A23C	41532	Leakage Curnt Chk Warning Off	PRO[MCU]	Normal	
A23D	41533	Leakage Curnt Chk Alarm On	PRO[MCU]	Normal	
A23E	41534	Leakage Curnt Chk Alarm Off	PRO[MCU]	Normal	
A23F	41535	IMS Pulse POW Long Delay	IMS[DSP]	Normal	
A240	41536	IMS Repulse POW Long Delay	IMS[DSP]	Normal	
A241	41537	IMS Close POW Long Delay	IMS[DSP]	Normal	
A242	41538	CPLD Communication Problem On	EVT[DSP]	Normal	
A243	41539	CPLD Communication ProblemOff	EVT[DSP]	Normal	
A244	41540	POW Long Delay On	EVT[DSP]	Normal	
A245	41541	POW Long Delay Off	EVT[DSP]	Normal	
A246	41542	Coil Current Samples Alarm ON	EVT[DSP]	Normal	
A247	41543	Coil Current Samples Alarm OFF	EVT[DSP]	Normal	
A248	41544	DPR Call Error	EVT[DSP]	Normal	

Definitions of Historic Events

A249	41545	Direct Transfer Trip	ATX[DSP]	Normal	
A24A	41546	DTAP Indication Direction 1 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A24B	41547	DTAP Indication Direction 1 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A24C	41548	DTAP Trip Direction 1 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A24D	41549	DTAP Trip Direction 1 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A24E	41550	DTAP Indication Direction 2 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A24F	41551	DTAP Indication Direction 2 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A250	41552	DTAP Trip Direction 2 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A251	41553	DTAP Trip Direction 2 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A252	41554	Wattmetric Indication Direction 1 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A253	41555	Wattmetric Indication Direction 1 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection

					Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A254	41556	Wattmetric Trip Direction 1 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A255	41557	Wattmetric Trip Direction 1 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A256	41558	Wattmetric Indication Direction 2 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A257	41559	Wattmetric Indication Direction 2 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A258	41560	Wattmetric Trip Direction 2 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A259	41561	Wattmetric Trip Direction 2 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A25A	41562	DTAP Logic Change	EVT[DSP]	Extended	Data 1: Data1 Type: REFCLEventCode Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: OnOff
A25B	41563	Wattmetric Logic Change	EVT[DSP]	Extended	Data 1: Data1 Type: WattmetricEventCode Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: OnOff
A25C	41564	Wattmetric Timing Direction 1 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort

Definitions of Historic Events

A25D	41565	Wattmetric Timing Direction 1 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A25E	41566	Wattmetric Timing Direction 2 On	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A25F	41567	Wattmetric Timing Direction 2 Off	EVT[DSP]	Normal	Data 1: Data1 Type: CurrentDirection Data 2: Data2 Type: Volts Data 3: Data3 Type: P0Value Data 4: Data4 Type: ushort
A264	41572	Core2 Initialization Started	C2H[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
A265	41573	Core2 Initialization Finished	C2H[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
A266	41574	Core2 Watch Dog Failure	C2H[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
A267	41575	Core2 Reboot	C2H[DSP]	Normal	Data 1: Data1 Type: RebootStatus Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
A268	41576	Core2 Exceptions	C2H[DSP]	Normal	Data 1: Data1 Type: Core2Exceptions Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
A269	41577	PMU State Change	C2H[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
A26A	41578	PMU Config Change	C2H[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
A26B	41579	PMU Config Error	C2H[DSP]	Normal	Data 1: Data1 Type: PMUConfigError Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort

A26C	41580	Crystal Frequency Read Error	C2H[DSP]	Normal	Data 1: Data1 Type: DataReadStatus Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort
A26D	41581	REFLC/EP-P0 Trip Blocked On	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A26E	41582	REFLC/EP-P0 Trip Blocked Off	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A26f	41583	ROCOF Enhanced Security Buffer Clear	PRO[DSP]	Normal	Data 1: Data1 Type: EnabledDisabled Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A270	41584	81R - ROCOF Trip On	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A271	41585	81R - ROCOF Trip Off	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A278	41592	Close after Voltage Trip	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A279	41593	Close after Frequency Trip	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A27A	41594	Close after ROCOF Trip	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A27B	41595	Close after Directional Power Trip	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort

Definitions of Historic Events

A27C	41596	Directional Power Timing On	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A27D	41597	Directional Power Timing Off	PRO[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A27E	41598	Extended Shots to Lockout Enabled	EVT[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A27F	41599	Extended Shots to Lockout Disabled	EVT[DSP]	Normal	Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A280	41600	ROCOF PLL Saturation	EVT[DSP]	Normal	ROCOF saturation of PLL integrator OR output of PI module of PLL Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A281	41601	Overcurrent 20% Trip Milestone On	EVT[DSP]	Normal	Overcurrent 20 Pct Trip Milestone On Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A282	41602	Overcurrent 20% Trip Milestone Off	EVT[DSP]	Normal	Overcurrent 20 Pct Trip Milestone Off Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A283	41603	Overcurrent 50% Trip Milestone On	EVT[DSP]	Normal	Overcurrent 50 Pct Trip Milestone On Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A284	41604	Overcurrent 50% Trip Milestone Off	EVT[DSP]	Normal	Overcurrent 50 Pct Trip Milestone Off Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A285	41605	Overcurrent 80% Trip Milestone On	EVT[DSP]	Normal	Overcurrent 80 Pct Trip Milestone On Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort

Definitions of Historic Events

					Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A286	41606	Overcurrent 80% Trip Milestone Off	EVT[DSP]	Normal	Overcurrent 80 Pct Trip Milestone Off Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A287	41607	ROCOF Frequency Out Of Range On	PRO[DSP]	Normal	ROCOF Frequency Out Of Range On Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort
A288	41608	ROCOF Frequency Out Of Range Off	PRO[DSP]	Normal	ROCOF Frequency Out Of Range Off Data 1: Data1 Type: ushort Data 2: Data2 Type: ushort Data 3: Data3 Type: ushort Data 4: Data4 Type: ushort