# IEC 61850 Standard Application Guide

For the Nexus® 1500+ Meter



Nexus® 1500+ Meter IEC 61850 Standard Application Guide V.1.01

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Founded in 1975 by engineer and inventor Dr. Samuel Kagan, Electro Industries/ GaugeTech (EIG) changed the face of power monitoring forever with its first breakthrough innovation: an affordable, easy-to-use AC power meter.

Forty years since its founding, Electro Industries/GaugeTech, the leader in power monitoring and control, continues to revolutionize the industry with the highest quality, cutting edge power monitoring and control technology on the market today. An ISO 9001:2000 certified company, EIG sets the industry standard for advanced power quality and reporting, revenue metering and substation data acquisition and control. EIG products can be found on site at mainly all of today's leading manufacturers, industrial giants and utilities.

EIG products are primarily designed, manufactured, tested and calibrated at our facility in Westbury, New York.



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# **1: Introduction**

This application guide contains detailed information on the IEC 61850 Standard implementation for the Electro Industries' Nexus® 1500+ meter. This information is intended as a supplemental aid for using this meter's IEC 61850 feature. For detailed information concerning the meter and the IEC 61850 Standard implementation for it, please refer to the Nexus® 1500+ Meter Installation and Operation Guide.





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# 2: Protocol Implementation Conformance Statement (PICS)

This chapter explains how the IEC 61850 interface in the Nexus  $\$  1500+ device adheres to the IEC 61850 Standard.

## 2.1: Overview

The following Abstract Communications Service Interface (ACSI) conformance statements are used to provide an overview and details about the Nexus® 1500+ meter:

- ACSI basic conformance statement
- ACSI models conformance statement,
- ACSI service conformance statement

The statements specify the communication features mapped to IEC 61850-8-1.

## **2.2: ACSI Basic Conformance Statement**

The basic conformance statement is defined in Table 2.1.

		Client/ Subscriber	Server/ Publisher	Value/ Comments				
Client-Server	Client-Server roles							
B11	Server side (of TWO-PARTY- APPLICATION-ASSOCIATION)		Y					
B12	Client side of (TWO-PARTY- APPLICATION-ASSOCIATION)							
SCSMs suppo	prted							
B21	SCSM: IEC 6185-8-1 used		Y					
B22	SCSM: IEC 6185-9-1 used							
B23	SCSM: IEC 6185-9-2 used							
B24	SCSM: other							
Generic subs	tation event model (GSE)							
B31	Publisher side	Y						
B32	Subscriber side		Y					
Transmission of sampled value model (SVC)								
B41	Publisher side							
B42	Subscriber side							
Y = supporte N or empty = = not ap	d = not supported pplicable							

Table 2.1: ACSI Basic Conformance Statement



## 2.3: ACSI Models Conformance Statement

		Client/ Subscriber	Server/ Publisher	Value/ Comments			
If Server or	If Server or Client side (B11/12) supported						
M1	Logical device		Y				
M2	Logical node		Y				
M3	Data		Y				
M4	Data set		Y				
M5	Substitution		Ν				
M6	Setting group control		Ν				
	Reporting						
M7	Buffered report control		Y				
M7-1	sequence-number		Y				
M7-2	report-time-stamp		Y				
M7-3	reason-for-inclusion		Y				
M7-4	data-set-name		Y				
M7-5	data-reference		Y				
M7-6	buffer-overflow		Y				
M7-7	entryID		Y				
M7-8	BufTim		Y				
M7-9	IntgPd		Y				
M7-10	GI		Y				
M7-11	conf-revision		Y				
M8	Unbuffered report control		Y				
M8-1	sequence-number		Y				
M8-2	report-time-stamp		Y				
M8-3	reason-for-inclusion		Y				
M8-4	data-set-name		Y				
M8-5	data-reference		Y				
M8-6	BufTim		Y				
M8-7	IntgPd		Y				

The ACSI models conformance statement is defined in Table 2.2.



		Client/ Subscriber	Server/ Publisher	Value/ Comments		
M8-8	GI		Y			
M8-9	conf-revision		Y			
	Logging		Ν			
M9	Log control		Ν			
M9-1	IntgPd		Ν			
M10	Log		Ν			
M11	Control		Y	Status Only		
If GSE (B31/32) is supported						
M12	GOOSE		Y			
M13	GSSE		Ν			
If SVC (41/4	42) is supported					
M14	Multicast SVC		Ν			
M15	Unicast SVC		Ν			
If Server or	If Server or Client side (B11/12) supported					
M16	Time		Y			
M17	File Transfer		Υ			
Y = service is supported N or empty = service is not supported						

Table 2.2: ACSI Models Conformance Statement

# 2.4: ACSI Service Conformance Statement

The ACSI service conformance statement is defined in Table 2.3 (dependent on the statements in Table 2.1).

	Services	AA: TP/MC	Client (C)	Server (S)	Comments
Server					
S1	ServerDirectory	ТР		Υ	
Application ass	ociation				
S2	Associate			Υ	
S3	Abort			Υ	
S4	Release			Y	
Logical device					
S5	LogicalDevice- Directory	ТР		Y	
Logical node					
S6	LogicalNodeDi- rectory	ТР		Y	
S7	GetAllDataVal- ues	ТР		Y	
Data					
S8	GetDataValues	ТР		Υ	
S9	SetDataValues	ТР		Ν	
S10	GetDataDirec- tory	ТР		Y	
S11	GetDataDefini- tion	ТР		Y	
Data set					
S12	GetDataSetVal- ues	ТР		Y	



	Services	AA: TP/MC	Client (C)	Server (S)	Comments
S13	SetDataSetVal- ues	ТР		N	
S14	CreateDataSet	ТР		Ν	
S15	DeleteDataSet	ТР		Ν	
S16	GetDataSetDi- rectory	ТР		Y	
Substitution	1	1	Τ		
S17	SetDataValues	ТР		N	
S18	SelectActiveSG	ТР		Ν	
S19	SelectEditSG	ТР		Ν	
S20	SetSGValues	ТР		Ν	
S21	ConfirmEditS- GValues	ТР		Ν	
S22	GetSGValues	ТР		Ν	
S23	GetSGCBValues	ТР		Ν	
Reporting					
Buffered report	t control block (BR	CB)			
S24	Report	ТР		Y	
S24-1	data-change (dchg)			Y	
S24-2	qchg-change (qchg)			Y	Quality attributes do not change after power up, so even though this bit is writable, no qual- ity events will be generated.
S24-3	data-update (dupd)			Y	This bit is writ- able; however, no attributes of Trgop = dupd are supported by the device model.
S25	GetBRCBValues	ТР		Y	



	Services	AA: TP/MC	Client (C)	Server (S)	Comments	
S26	SetBRCBValues	ТР		Y		
Unbuffered rep	Unbuffered report control block (URCB)					
S27	Report	ТР		Y		
S27-1	data-change (dchg)			Y		
S27-2	qchg-change (qchg)			Y	Quality attributes do not change after power up, so even though this bit is writable, no qual- ity events will be generated.	
S27-3	data-update (dup			Y	This bit is writ- able; however, no attributes of Trgop = dupd are supported by the device model.	
S28	GetURCBValues	ТР		Y		
S29	SetURCBValues	ТР		Y		
			·			
Logging						
Log control blo	ck					
S30	GetLCBValues	ТР		Ν		
S31	SetLCBValues	ТР		Ν		
Log	-					
S32	QueryLogBy- Time	ТР		Ν		
S33	QueryLog- ByEntry	ТР		Ν		
S34	GetLogSta- tusValues	TP		N		
Generic substation event model (GSE)						
GOOSE-CONTR	GOOSE-CONTROL-BLOCK					
S35	SendGOOSE- Message	MC	Y	Y		



	Services	AA: TP/MC	Client (C)	Server (S)	Comments
S36	GetReference	ТР	Ν	Ν	
S37	GetGOOSEEle- ment-Number	ТР	N	Ν	
S38	GetGoCBValues	ТР	Ν	Y	
S39	SetGoCBValues	ТР	N	Ν	
GSSE-CONTRO	L-BLOCK				
S40	SendGSSEMes- sage	MC	N	Ν	
S41	GetReference	ТР	N	N	
S42	GetGSSEEle- mentNumber	ТР	N	N	
S43	GetGsCBValues	ТР	Ν	Ν	
S44	SetGsCBValues	ТР	N	Ν	
Transmission of	f sampled value m	odel (SVC)			
Multicast SVC					
S45	SendMSVMes- sage	MC	N	Ν	
S46	GetMSVCBVal- ues	ТР	N	N	
S47	SetMSVCBVal- ues	ТР	N	Ν	
Unicast SVC					
S48	SendUSVMes- sage	ТР	N	Ν	
S49	GetUSVCBVal- ues	ТР	N	N	
S50	SetUSVCBVal- ues	ТР	N	N	
			1	1	
Control					
S51	Select			Ν	
S52	SelectWithValue	ТР		Ν	
S53	Cancel	ТР		N	



	Services	AA: TP/MC	Client (C)	Server (S)	Comments
S54	Operate	ТР		Ν	
S55	Command- Termination	TP		Ν	
S56	TimeActivated- Operate	ТР		N	
File transfer					-
S57	GetFile	ТР		Υ	
S58	SetFile	ТР		Ν	
S59	DeleteFile	ТР		Ν	
S60	GetFileAt- tributeValues	ТР		Y	
Time					
T1	Time resolution of internal clock			13	nearest negative power of 2 in seconds
Т2	Time accuracy of internal clock				то
				T1	T1 (SNTP sync)
				T2	T2 (IRIG-B sync)
					Т3
					T4
					Т5
ТЗ	Supported TimeStamp resolution			10	nearest negative power of 2 in seconds SNTP
				14	nearest negative power of 2 in seconds IRIG-B
Y = service is s N or empty = s	supported service is not supp	orted			·

Table 2.3: ACSI Service Conformance Statement





# **3: Protocol Implementation Extra Information** for Testing (PIXIT)

This chapter specifies the PIXIT of the IEC 61850 interface in the Nexus® 1500+ meter. The table in each section specifies the PIXIT for the applicable ACSI service model as structured in IEC 61850-10.

## 3.1: Overview

Together with the PICS (see Chapter 2) and the MICS (see Chapter 6), the PIXIT forms the basis for a conformance test according to IEC 61850-10.

### **3.2: PIXIT for Association Model**

ID	Description	Value / Clarification
As1	Maximum number of clients that can set up an association simulta- neously	6
As2	TCP_KEEPALIVE value	180 seconds
As3	Lost connection detection time	60 seconds
As4	Is authentication supported?	Ν
As5	What association parameters are necessary for successful associa- tion?	Transport SelectorYSession selectorYPresentation selectorYAP TitleNAE QualifierN
As6	If association parameters are nec- essary for association, describe the correct values	Transport Selector * Session selector * Presentation selector * *=As specified in ICD file
As7	What is the maximum and mini- mum MMS PDU size?	Max MMS PDU size 32717 Min MMS PDU size 400
As8	What is the maximum start up time after a power supply inter- rupt?	45 seconds



# **3.3: PIXIT for Server Model**

ID	Description	Value / Clarification
Sr1	Which analog value (MX) quality bits are supported (can be set by server)?	Validity: Y Good Y Invalid N Reserved N Questionable N Overflow N OutofRange N BadReference N Oscillatory N Failure N OldData N Inconsistent N Inaccurate Source: Y Process N Substituted N Test N OperatorBlocked
Sr2	Which status value (ST) quality bits are supported (can be set by server)?	Validity: Y Good Y Invalid N Reserved N Questionable N BadReference N Oscillatory N Failure N OldData N Inconsistent N Inaccurate Source: Y Process N Substituted N Test N OperatorBlocked
Sr3	What is the maximum number of data values in one GetDataValues request?	Limited only by PDU size
Sr4	What is the maximum number of data values in one SetDataValues request?	SetDataValues not supported
Sr5	Which Mode / Behavior values are supported?	Y On N Blocked N Test N Test/Blocked N Off



**Note**: MX measurements and ST values have differentiated update rates based upon their data type:

- Energy counters updated at least every second.
- External digital input from external boards updated at least every 10 msec.
- Alarms updated at least every 200 msec.
- Internal digital input updated at least every 4.1 msec.
- "Is" in front of LN name stands for "low speed" updated at least every 3 seconds.
- "ns" in front of LN name stands for "normal speed" updated at least every second.
- "hs" in front of LN name stands for "high speed" updated at least every 200 msec.

#### **3.4: PIXIT for Data Set Model**

ID	Description	Value / Clarification
Ds1	What is the maximum number of data elements in one data set (compare ICD setting)?	256
Ds2	How many persistent data sets can be cre- ated by one or more clients?	32
Ds3	How many non-persistent data sets can be created by one or more clients?	0



ID	Description	Value / Clarification
Rp1	The supported trigger conditions are (compare PICS)	<ul> <li>Y integrity</li> <li>Y data change</li> <li>Y quality change</li> <li>N data update</li> <li>Y general interrogation</li> </ul>
Rp2	The supported optional fields are	<ul> <li>Y sequence-number</li> <li>Y report-time-stamp</li> <li>Y reason-for-inclusion</li> <li>Y data-set-name</li> <li>Y data-reference</li> <li>Y buffer-overflow</li> <li>Y entryID</li> <li>Y conf-rev</li> <li>Y segmentation</li> </ul>
Rp3	Can the server send segmented reports?	Y
Rp4	Mechanism on second internal data change notification of the same analogue data value within buffer period (Compare IEC 61850-7- 2 \$14.2.2.9)	Send report immediately
Rp5	Multi client URCB approach (compare IEC 61850-7-2 \$14.2.1)	Each URCB is visible to all clients
Rp6	What is the format of EntryID?	X000YYYY for octets 18 YYYY values increment by random amount, X incre- ments when YYYY rolls to its maximum value
Rp7	What is the buffer size for each BRCB or how many reports can be buffered?	20000 octets
Rp8	Pre-configured RCB attributes that cannot be changed online when RptEna = FALSE (see also the ICD report settings)	cbName (*)datSet (*)(*) - can be changed only by loading a new .cid file.
Rp9	May the reported data set contain: - structured data objects? - data attributes?	Y Y
Rp10	What is the scan cycle for binary events? Is this fixed, configurable?	10 mseconds Fixed
Rp11	Does the device support pre-assigning an RCB to a specific client in the SCL?	N

# **3.5: PIXIT for Reporting Model**



ID	Description	Value / Clarification	
Go1	What elements of a subscribed GOOSE header are checked to decide the message is valid and the allData values are accepted? If yes, describe the conditions. Note: the VLAN tag may be removed by a ethernet switch and should not be checked	Y source MAC address N destination MAC address Y Ethertype = 0x88B8 N APPID Y gocbRef N timeAllowedtoLive N datSet Y goID N t N stNum N sqNum N test N confRev Y ndsCom N numDatSetEntries	
Go2	Can the test flag in the published GOOSE be turned on / off	Ν	
Go3	Does the DUT accept a configuration with a GOOSE control block with empty data set or too large data set?	Yes, but the GoEna cannot be set.	
Go3	What is the behavior when the GOOSE pub- lish configuration is incorrect?	DUT keeps GoEna=F	
Go4	When is a subscribed GOOSE marked as lost?	message does not arrive prior to TAL (TAL = time allowed to live value from the last received GOOSE message).	
Go5	What is the behavior when one or more subscribed GOOSE messages isn't received or syntactically incorrect (missing GOOSE)	Data is marked invalid.	
G06	What is the behavior when a subscribed GOOSE message is out-of-order	No special action is taken.	
G07	What is the behavior when a subscribed GOOSE message is duplicated	No special action is taken.	
G08	Does the device subscribe to GOOSE mes- sages with/without the VLAN tag?	Y, with the VLAN tag. Y, without the VLAN tag.	
Go9	May the GOOSE data set contain: - structured data objects (FCD)? - time stamp data attributes? NOTE: Data Attributes (FCDA) is manda- tory.	Subscribed Published Y Y N Y	

#### **3.6: PIXIT for Generic Substation Events Model**



ID	Description	Value / Clarification
Go10	Published FCD supported common data classes / data types are:	SPS, SPC, INS, INC, DPL, MV, WYE, DEL, BCR, ASG
		BOOLEAN, INT8(ENUM), INT64, INT32U, FLOAT32
		Time stamp, Quality
GO11	Subscribed FCD supported common data	SPS
	classes / data types are.	BOOLEAN, INT32, FLOAT32
Go12	What is the slow retransmission time? Is it fixed or configurable?	30 seconds Fixed
Go13	What is the minimum supported retrans- mission time? What is the maximum supported retrans- mission time? Is it fixed or configurable?	10 milliseconds 30 seconds Fixed
Go14	Can the GOOSE publish be turned on / off by using SetGoCBValues(GoEna)?	N

ID	Description	Value / Clarification	
Tm1	What quality bits are supported (may be set by the IED)?	<ul><li>Y LeapSecondsKnown</li><li>Y ClockFailure</li><li>Y ClockNotSynchronized</li></ul>	
Tm2	Describe the behavior when the time syn- chronization signal/messages are lost	When any time synch is lost, the IEC61850 time- stamp sets "clock not synchronized" to 1 and "Time accuracy" to 7	
Tm3	When is the time quality bit "ClockFailure" set?	Set if the meter UTC time is before 1-1-1970, with or without any external time synchronization	
Tm4	When is the time quality bit "Clock not syn- chronized" set?	When the meter does not have either SNTP or IRIG- B external source syn- chronization the "clock not synchronized" is set	
Tm5	Is the timestamp of a binary event adjusted to the configured scan cycle?	Y	
Tm6	Does the device support time zone and day- light saving?	Y	
Tm7	Which attributes of the SNTP response packet are validated?	<ul> <li>N Leap indicator not equal to 3?</li> <li>Y Mode is equal to SERVER</li> <li>N OriginateTimestamp is equal to value sent by the SNTP client as Transmit Timestamp</li> <li>N RX/TX timestamp fields are checked for reasonableness</li> <li>Y SNTP version 3</li> <li>Y Other (describe) Stratum &gt;0 and Stratum &lt;14</li> </ul>	

# **3.7: PIXIT for Time and Time Synchronization Model**



3.8:	PIXIT	for	File	Transfer	Model

ID	Description	Value / Clarification
Ft1	What is structure of files and directories? Where are the COMTRADE files stored? Are comtrade files zipped and what files are included in each zip file?	Flat file system with pseudo folders No comtrade files available Not zipped
Ft2	Directory names are separated from the file name by	"/" or "\"
Ft3	The maximum file name size including path (recommended 64 chars)	1024 chars
Ft4	Are directory/file name case sensitive?	Case sensitive
Ft5	Maximum file size	No maximum size
Ft6	Is the requested file path included in the MMS fileDirectory respond file name?	Y
Ft7	Is the wild char supported MMS fileDirectory request?	Ν
Ft8	Is it allowed that 2 clients get a file at the same time?	Y

#### 3.9: PIXIT Models Not Supported

The following models are not supported for the Nexus® 1500+ meter's IEC 61850 interface:

- Substitution model
- Setting group control model
- Logging model
- Control model



# 4: TISSUES (Technical Issues) Implementation Conformance Statement (TICS)

According to the UCA IUG QAP the TICS is required to perform a conformance test and is referenced on the certificate.

# 4.1: Mandatory IntOp TISSUES

The Table below shows mandatory IntOp TISSUES that are either implemented or not applicable to the Nexus® 1500+ meter's IEC 61850 Edition 1 server.

Part	TISSUE Number	Description	Implemented Y/NA
8-1	116	GetNameList with empty response?	Y
	105	GetDataSetValues	Y
	183	GetNameList error handling	Ý
7-4	None		
7-3	28	Definition of APC	NA
	54	Point def xVal, not cVal	NA
	55	Ineut = Ires?	Υ
	63	mag in CDC CMV	Υ
	65	Deadband calculation of a Vector and	
		trigger option	NA
	219	operTm in ACT	NA
	270	WYE and DEL rms values	Y



Part	TISSUE Number	Description	Implemented Y/NA
7-2	30	control parameter T	Y
	31	Туро	NA
	32	Typo in syntax	NA
	35	Typo Syntax Control time	NA
	36	Syntax parameter DSet-Ref missing	NA
	37	Syntax GOOSE "T" type	Y
	39	Add DstAddr to GoCB	Ŷ
	40	GOOSE Message "AppID" to "GoID"	Ŷ
	41	GeCB "AppID" to "GeID"	ΝA
	4 <u>7</u>	SV timestamp: "EntryTime" to	
	72	"TimoStamp"	ΝΔ
	42	Control "T" comontio	
	43	AddCause Object not col	
	44	AddCause - Object not ser	
	45	Missing AddCauses (neg range)	NA
	46	Synchro check cancel	NA
	4/	"." in LD Name?	Y
	49	BRCB TimeOfEntry (part of #453)	NA
	50	LNName start with number?	Y
	51	ARRAY [0num] missing	NA
	52	Ambiguity GOOSE SqNum	Y
	53	Add DstAddr to GsCB, SV	NA
	151	Name constraint for control blocks etc.	Y
	166	DataRef attribute in Log	NA
	185	Logging - Integrity periode	NA
	189	SV Format	NA
	190	BRCB: EntryId and TimeOfEntry (part of #453)	NA
	191	BRCB: Integrity and buffering reports (part of #453)	NA
	234	New type CtxInt (Enums are mapped to 8 bit integer)	Y
	275	Confusing statement on GI usage ( part of #453)	NA
	278	EntryId not valid for a server (part of #453)	NA
6	1 5	Syntax tExtensionAttributeNameEnum	Y
		is restricted	Y
	8	SIUnit enumeration for W	NA
	10	Base type for bitstring usage	Y
	17	DAI/SDI elements syntax	· Y
	169	Ordering of enum differs from 7-3	NA

# **4.2: Optional IntOp TISSUES**

The Table below shows optional IntOp TISSUES that are either implemented or not applicable to the Nexus® 1500+ meter's IEC 61850 server Edition 1.

Part	TISSUE Number	Description	Implemented Y/NA
8-1	246	Control negative response (SBOns) with LastApplError	NA
8-1	545	Skip file directories with no files	Y
7-2	333	Enabling of an incomplete GoCB	Y
7-2	453	Combination of all reporting and logging tissues	N
6	245	Attribute RptId in SCL	Ν
6	529	Replace sev - Unknown by unknown	NA



Doc# E154742

# **5: Data Objects List**

This chapter provides detailed lists of the data objects for the Nexus® 1500+ meter's IEC 61850 implementation.

#### 5.1: Overview

The Logical Nodes (LN) implemented in the Nexus® 1500+ IEC 61850 server are listed below:

- The node LLN0 keeps common information for the entire logical device. In this node Datasets, Reports and GOOSE control block can be defined, based on the limitations provided in the ICD file (see Section 5.3 for details).
- The node LPHD1 defines physical parameters such as vendor, serial number, device name plate and the software revision number.
- The node nsMMXU1 contains the "normal-speed" basic electrical measurements.
- The node hsMFLK1 is used for short term flicker (per phase) and long term flicker (per phase).
- The node nsMHAI1 groups together the THD per phase measurements taken at normal speed.
- The node IsMSQI1 is used for voltage/current symmetrical components per phase (zero, positive and negative).
- The node eneMMTR1 groups together all measurements related to energy counters, like +/- Watt-hours, +/- VAr-hours and Total VA-hours.
- The node intGGIO1 is used for the built-in high-speed digital inputs.
- The node extGGIO1 is used for the slot 3 option board's digital inputs;
- The node extGGIO2 is used for the slot 4 option board's digital inputs.
- The node vrtGGIO1 is used for internal virtual memory to map data from received GOOSE messages.
- The node alarmGGIO1 is used for limit state.

- The nodes setTCTR1, setTCTR2, setTCTR3 and setTCTR4 contain the ratio of the current used by the measuring device, for phases A,B,C and Neutral, respectively. In this way, the user can take the IEC measurements (primary) and convert them to Secondary using the ratios contained in these nodes.
- The nodes setTVTR1, setTVTR2 and setTVTR3 contain the ratio of the voltage used by the measuring device.

#### NOTES:

- The normal-speed in the Nexus® 1500+ meter are measurements taken every second.
- The energy counters are updated every second.
- "Is" in front of LN name stands for "low speed" (every 3 sec)
- "ns" in front of LN name stands for "normal speed" (every sec)
- "hs" in front of LN name stands for "high speed" (every 200 msec)

#### 5.2: Detailed Data Objects List

The following tables show the data objects for each logical node.

#### 5.2.1: Logic Node: IEC61850SRVMEAS/LLN0

OBJECT PATH	VALUE	COMMENT			
LLNO					
IEC61850SRVMeas/LLN0\$CF\$Mod\$ct1Mode1	0 = "STATUS-ONLY"	Read only. Constant			
IEC61850SRVMeas/LLN0\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only. Constant			
IEC61850SRVMeas/LLN0\$DC\$Health\$d	"1=OK, 2=WARNING, 3=ALARM"	Read only. Constant			
IEC61850SRVMeas/LLN0\$DC\$Mod\$d	"OPERATING MODE"	Read only. Constant			
IEC61850SRVMeas/LLN0\$DC\$NamPlt\$d	"LOGICAL DEVICE NAMEPLATE"	Read only. Constant			
IEC61850SRVMeas/	1.0	Modified by client			
LLN0\$DC\$NamPlt\$configRev		via .cid file			
IEC61850SRVMeas/LLN0\$DC\$NamPlt\$swRev	Comm runtime version	Read only. Constant			
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only. Constant			
LLN0\$DC\$NamPlt\$vendor					
IEC61850SRVMeas/LLN0\$EX\$NamPlt\$ldNs	"IEC61850-7-4:2003"	Read only. Constant			
IEC61850SRVMeas/LLN0\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when			
	not health)	server is up.			
IEC61850SRVMeas/LLN0\$ST\$Beh\$stVal	1 = "ON"	Read only. Constant			
IEC61850SRVMeas/LLN0\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when			
		server is up.			
IEC61850SRVMeas/LLN0\$ST\$Health\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when			
	not health)	server is up.			
IEC61850SRVMeas/LLN0\$ST\$Health\$stVal	1 (Comm runtime health); 2 (Comm runtime not	Populated when			
	health)	server is up.			
IEC61850SRVMeas/LLN0\$ST\$Health\$t	Meter timestamp (see note 1,2,3 below)	Populated when			
		server is up.			


IEC61850SRVMeas/LLN0\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up.
IEC61850SRVMeas/LLN0\$ST\$Mod\$stVal	1 = "ON"	Read only. Constant
IEC61850SRVMeas/LLN0\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Update when server
		is up.

# 5.2.2: Logic Node: IEC61850SRVMEAS/LPHD1

OBJECT PATH	VALUE	COMMENT
	LPHD1	
IEC61850SRVMeas/LPHD1\$DC\$PhyNam\$model	Meter device model	Populated when
		server is up.
IEC61850SRVMeas/LPHD1\$DC\$PhyNam\$serNum	Meter serial number	Populated when
		server is up.
IEC61850SRVMeas/LPHD1\$DC\$PhyNam\$swRev	Comm runtime version	Populated when
		server is up.
IEC61850SRVMeas/LPHD1\$DC\$PhyNam\$vendor	"ELECTRO INDUSTRIES"	Read only.
		Constant
IEC61850SRVMeas/LPHD1\$DC\$PhyHealth\$d	"1=OK, 2=WARNING, 3=ALARM"	Read only.
		Constant
IEC61850SRVMeas/LPHD1\$DC\$Proxy\$d	"TRUE IF THIS LD IS A PROXY FOR AN EXTERNAL	Read only.
	DEVICE"	Constant
IEC61850SRVMeas/LPHD1\$ST\$PhyHealth\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up.
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated when
LPHD1\$ST\$PhyHealth\$stVal	health)	server is up.
IEC61850SRVMeas/LPHD1\$ST\$PhyHealth\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up.
IEC61850SRVMeas/LPHD1\$ST\$Proxy\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up.
IEC61850SRVMeas/LPHD1\$ST\$Proxy\$stVal	F = "FALSE"	Read only.
		Constant
IEC61850SRVMeas/LPHD1\$ST\$Proxy\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up.

#### 5.2.3: Logic Node: IEC61850SRVMEAS/MMTR1

OBJECT PATH	VALUE	COMMENT
	MMTR1	
IEC61850SRVMeas/	1	Read only. Constant
eneMMTR1\$CF\$DmdVArh\$pulsQty		
IEC61850SRVMeas/	1	Read only. Constant
eneMMTR1\$CF\$DmdWh\$pulsQty		
IEC61850SRVMeas/eneMMTR1\$CF\$Mod\$ct1Mode1	0 = "STATUS-ONLY"	Read only. Constant
IEC61850SRVMeas/	1	Read only. Constant
eneMMTR1\$CF\$SupVArh\$pulsQty		
IEC61850SRVMeas/	1	Read only. Constant
eneMMTR1\$CF\$SupWh\$pulsQty		
IEC61850SRVMeas/	1	Read only. Constant
eneMMTR1\$CF\$TotVAH\$pulsQty		
	•	•
TEC61950CDVMona (onoMMED1CDCCDobCd	"OPERATING MODE DEHAUTOR"	Dood only Constant
TEC61850SRVMeas/enemmTR15DC5Ben3d	"OPERATING MODE BEHAVIOR"	Read only, Constant
TEC61950SRVMeas/enemministocommunist	CENERALED VAR-HOURS	Read only, Constant
IEC61850SRVMeas/eneMMTR1SDCSHealthSd	"1=OK 2=WARNING 3=ALARM"	Read only Constant
TEC61850SRVMeas/eneMMTR1SDCSModSd	"OPERATING MODE"	Read only. Constant
TEC61850SRVMeas/eneMMTR1SDCSNamPltSd	"LOGICAL NODE NAMEPLATE"	Read only Constant
TEC61850SRVMeas/eneMMTR1SDCSNamPltSswRev	Comm runtime version	Read only Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only. Constant
eneMMTR1\$DC\$NamP1t\$vendor		4
IEC61850SRVMeas/eneMMTR1\$DC\$SupVArh\$d	"COMSUMED VAR-HOURS"	Read only. Constant
IEC61850SRVMeas/eneMMTR1\$DC\$SupWh\$d	"COMSUMED WATT-HOURS"	Read only. Constant
IEC61850SRVMeas/eneMMTR1\$DC\$TotVAh\$d	"TOTAL VA-HOURS "	Read only. Constant
	•	
	0.00 (Comm muntime health) . 0.40 (Comm	Denvilated when
TEC61850SRVMeas/enemmtR1\$51\$Ben\$q	0x00 (Comm runtime nearth); 0x40 (Comm	Populated when
	runtime not health)	server is up.
IEC61850SRVMeas/eneMMTR1\$ST\$Beh\$stVal	1 = "ON"	Read only. Constant
IEC6185USRVMeas/eneMMTR1\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up.
IEC61850SRVMeas/	Primary positive VARh (Quadrant 1 + 2)	Update when DSP1
eneMMTR1\$ST\$DmdVArh\$actVal		updates the energy.

IEC61850SRVMeas/eneMMTR1\$ST\$DmdVArh\$q	0x00 (DSP1 runtime health and WYE hookup);	Update when DSP1
	0x40 (otherwise)	runtime health
		state change
IEC61850SRVMeas/eneMMTR1\$ST\$DmdVArh\$t	Meter timestamp (see note 1 below)	Update when either
		energy or quality
		value change
IEC61850SRVMeas/eneMMTR1\$ST\$DmdWh\$actVal	Primary positive watt-hour (Quadrant 1 + 4)	Update when DSP1
		updates the energy.
IEC61850SRVMeas/eneMMTR1\$ST\$DmdWh\$q	0x00 (DSP1 runtime health and WYE hookup);	Update when DSP1
	0x40 (otherwise)	runtime health
		state change
IEC61850SRVMeas/eneMMTR1\$ST\$DmdWh\$t	Meter timestamp (see note 1 below)	Update when either
		energy or quality
		value change
IEC61850SRVMeas/eneMMTR1\$ST\$Health\$q	0x00 (Comm runtime health); 0x40 (Comm	Populated when
	runtime not health)	server is up.
IEC6185USRVMeas/eneMMTR1\$ST\$Health\$stVal	1 (Comm runtime health); 2 (Comm runtime	Populated when
	not health)	server is up.
IEC61850SRVMeas/enemminisSishealinst	Meter timestamp (see note 1,2,3 below)	Populated when
TEC61850SBVMaar (anoMMTR1SSTSMadSa	0x00 (Comm runtime health): 0x40 (Comm	server is up.
TECOLOSOSKVMEAS/ ENEMAIKI\$S1\$MOd\$Q	runtime not health)	sorver is up
IEC61850SRVMeas/eneMMTR1\$ST\$Mod\$stVal	1 = "ON"	Read only. Constant
IEC61850SRVMeas/eneMMTR1\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up.
IEC61850SRVMeas/	Primary negative VARh (Quadrant 3 + 4)	Update when DSP1
eneMMTR1\$ST\$SupVArh\$actVal		updates the energy.
IEC61850SRVMeas/eneMMTR1\$ST\$SupVArh\$q	0x00 (DSP1 runtime health and WYE hookup);	Update when DSP1
	0x40 (otherwise)	runtime health
		state change
IEC61850SRVMeas/eneMMTR1\$ST\$SupVArh\$t	Meter timestamp (see note 1 below)	Update when either
		energy or quality
		value change
IEC61850SRVMeas/eneMMTR1\$ST\$SupWh\$actVal	Primary negative watt-hour (Quadrant 2 + 3)	Update when DSP1
		updates the energy.
IEC61850SRVMeas/eneMMTR1\$ST\$SupWh\$q	UXUU (DSPI runtime health and WYE hookup);	update when DSP1
	0x40 (otherwise)	runtime health
	Mater timestame (see acts 1 halow)	state change
IEC018505RVMeas/enemmiri\$51\$5upwn\$c	Meter timestamp (see note i below)	update when either
		energy or quality
IEC61850SRVMeas/	Primary Total VAH	Value change
	IIImary IOCAL VAN	updates the second
TEC61850SRVMeas/eneMMTR1SSTSTotVAhSg	0x00 (DSP1 runtime health): 0x40	Updates the energy.
120010000kmldab/ cholminitypry rocymiyd	(otherwise)	runtime health
	(00001#100)	stato shango
IEC61850SRVMeas/eneMMTR1\$ST\$TotVAh\$\$+	Meter timestamp (see note 1 below)	Update when either
		energy or quality
		walue change
	1	varue change

## 5.2.4: Logic Node: IEC61850SRVMEAS/GGIO1

OBJECT PATH	VALUE	COMMENT
	GGI01	
IEC61850SRVMeas/	U = "STATUS-ONLY"	Read only.
intdiGGIOI\$CF\$Mod\$ctIModel		Constant
IEC61850SRVMeas/	"OPERATING MODE BEHAVIOR"	Read only.
intdiGGIO1\$DC\$Beh\$d		Constant
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.
intdiGGIO1\$DC\$Health\$d	UDULTE IN DICIENT INDUE, CUNNEL 10	Constant
intdicctol spectralise	BOILI-IN DIGITAL INPOL: CHANNEL I	Read Only.
IEC61850SRVMeas/	"BUILT-IN DIGITAL INPUT: CHANNEL 2"	Read only.
intdiGGI01\$DC\$Ind2\$d		Constant
IEC61850SRVMeas/	"BUILT-IN DIGITAL INPUT: CHANNEL 3"	Read only.
intdiGGI01\$DC\$Ind3\$d		Constant
IEC61850SRVMeas/	"BUILT-IN DIGITAL INPUT: CHANNEL 4"	Read only.
intdiGGI01\$DC\$Ind4\$d		Constant
IEC61850SRVMeas/	"BUILT-IN DIGITAL INPUT: CHANNEL 5"	Read only.
intdiGGIO1\$DC\$Ind5\$d		Constant
IEC61850SRVMeas/	"BUILT-IN DIGITAL INPUT: CHANNEL 6"	Read only.
Incalgerorsbestnabsa IEC61850SRVMeas/	"BUILT-IN DIGITAL INPUT. CHANNEL 7"	Read only
intdiGGIO1\$DC\$Ind7\$d		Constant
IEC61850SRVMeas/	"BUILT-IN DIGITAL INPUT: CHANNEL 8"	Read only.
intdiGGI01\$DC\$Ind8\$d		Constant
IEC61850SRVMeas/	"OPERATING MODE"	Read only.
intdiGGI01\$DC\$Mod\$d		Constant
IEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only.
intdiGGIO1\$DC\$NamPlt\$d		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
INTAIGGIOI\$DC\$NamPIT\$SWKEV	"ELECTRO INDUSTRIES"	Constant Read only
intdiGGIO1\$DC\$NamPlt\$vendor		Constant
11001001011201101001001		oonocano
TEC61850SBVMoos /	0x00 (Comm runtime health): 0x40 (Comm runtime	Populated when
intdiGGIO1\$ST\$Beb\$g	not health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
intdiGGI01\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when
intdiGGI01\$ST\$Beh\$t		server is up.
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
intdiGGIO1\$ST\$Health\$q	not health)	server is up.
intdicctol computed the atvol	health)	roputated when
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when
intdiGGI01\$ST\$Health\$t		server is up.
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
intdiGGI01\$ST\$Ind1\$q	not health)	server is up.
IEC61850SRVMeas/	High speed digital input, channel 1	Update at least
intdiGGI01\$ST\$Ind1\$stVal		once every 10
		msec
int di corol coméra di ét	Meter timestamp (see note 1 below)	Update when Di
IntalGGIOISSTSINAISt IEC61850SRVMeas/	0x00 (Comm runtime health): 0x40 (Comm runtime	State changed Populated when
intdiGGIO1\$ST\$Ind2\$g	not health)	server is up
IEC61850SRVMeas/	High speed digital input, channel 2	Update at least
intdiGGI01\$ST\$Ind2\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
intdiGGI01\$ST\$Ind2\$t		state changed
IEC6185USRVMeas/	UXUU (Comm runtime health); UX40 (Comm runtime	Populated when
INTAIGGIOI\$ST\$INd3\$q TEC61850SRVMeas/	not nealth) High speed digital input channel 3	Indate at least
intdiggI01\$ST\$Ind3\$etVol	nigh speed digital input, channel 5	once every 10
TUCATOGIOLÓDIÓLUCOÓSCIAT		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
intdiGGI01\$ST\$Ind3\$t		state changed
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
intdiGGI01\$ST\$Ind4\$q	not health)	server is up



IEC61850SRVMeas/	High speed digital input, channel 4	Update at least
intdiGGI01\$ST\$Ind4\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
intdiGGI01\$ST\$Ind4\$t		state changed
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
intdiGGI01\$ST\$Ind5\$g	not health)	server is up
IEC61850SRVMeas/	High speed digital input, channel 5	Update at least
intdiGGI01\$ST\$Ind5\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
intdiGGI01\$ST\$Ind5\$t		state changed
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
intdiGGI01\$ST\$Ind6\$g	not health)	server is up
IEC61850SRVMeas/	High speed digital input, channel 6	Update at least
intdiGGIO1\$ST\$Ind6\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
intdiGGI01\$ST\$Ind6\$t		state changed
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
intdiGGI01\$ST\$Ind76\$q	not health)	server is up
IEC61850SRVMeas/	High speed digital input, channel 7	Update at least
intdiGGI01\$ST\$Ind7\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
intdiGGI01\$ST\$Ind7\$t		state changed
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
intdiGGI01\$ST\$Ind86\$q	not health)	server is up
IEC61850SRVMeas/	High speed digital input, channel 8	Update at least
intdiGGIO1\$ST\$Ind8\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
intdiGGI01\$ST\$Ind8\$t		state changed
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
intdiGGI01\$ST\$Mod\$q	not health)	server is up.
IEC61850SRVMeas/	1 = "ON"	Read only.
intdiGGIO1\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when
intdiGGI01\$ST\$Mod\$t		server is up.

#### 5.2.5: Logic Node: IEC61850SRVMEAS/GGIO1

OBJECT PATH	VALUE	COMMENT
	GGI01	_
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
extdiGGI01\$CF\$Mod\$ctlModel		Constant
IEC61850SRVMeas/extdiGGI01\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.
extdiGGI01\$DC\$Health\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 1"	Read only.
extdiGGI01\$DC\$Ind1\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 2"	Read only.
extdiGGI01\$DC\$Ind2\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 3"	Read only.
extdiGGI01\$DC\$Ind3\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 4"	Read only.
extdiGGI01\$DC\$Ind4\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 5"	Read only.
extdiGGI01\$DC\$Ind5\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 6"	Read only.
extdiGGI01\$DC\$Ind6\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 7"	Read only.
extdiGGI01\$DC\$Ind7\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 8"	Read only.
extdiGGIO1\$DC\$Ind8\$d		Constant



IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL 9"	Read only.
extdiGGI01\$DC\$Ind9\$d		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL	Read only.
EXTCligGIOISDCSIndIUSd	IU" "OPTION BOARD (SLOT 3) DICITAL INDUT. CHANNEL	Constant Read only
extdicciol\$DC\$Ind11\$d	11"	Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL	Read only.
extdiGGI01\$DC\$Ind12\$d	12"	Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL	Read only.
extdiGGI01\$DC\$Ind13\$d	13"	Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL	Read only.
extdiGGIO1\$DC\$Ind14\$d	14"	Constant
autdicctol SDCStrd155d	"OPTION BOARD (SLOT 3) DIGITAL INPOT: CHANNEL	Read only.
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPUT: CHANNEL	Read only.
extdiGGI01\$DC\$Ind16\$d	16"	Constant
IEC61850SRVMeas/extdiGGIO1\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only.
extdiGGIO1\$DC\$NamPlt\$d		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
extdlGGIOI\$DC\$NamPlt\$swRev IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Constant Read only
extdiGGT01\$DC\$NamPlt\$vendor		Constant
TEC61850SRVMeas/avtdicct0168m6Dab6~	Avan (Comm runtime health), Avan (Comm runtime	Populated when
THEOTODORAMES' EXCUTABLOISDISHEUSD	not health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
extdiGGI01\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/extdiGGI01\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up.
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
extdiGGIO1\$ST\$Health\$q	not health)	server is up.
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated when
extdlGGlOI\$ST\$Health\$stVal	health) Meter timestamp (see note 1 2 3 below)	Server 15 up.
extdiGGI01\$ST\$Health\$t	Meter timestamp (see note 1,2,5 berow)	server is up
IEC61850SRVMeas/	0x00 (DI board present on slot 3); 0x40	Populated when
extdiGGI01\$ST\$Ind1\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 1	Update at least
extdiGGI01\$ST\$Ind1\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
EXTGIGGIOISSTSINGIST	AxAA (DI board present on slot 3) · AxAA	State changed Populated when
extdicciol\$ST\$ind2\$a	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 2	Update at least
extdiGGI01\$ST\$Ind2\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGI01\$ST\$Ind2\$t		state changed
LEC6185USRVMeas/	UXUU (DI board present on slot 3); 0x40	ropulated when
extalGG101\$ST\$Ind3\$q TEC61850SRVMeas/	(otnerwise) High speed digital input chappel 3	Indate at least
extdiGGI01\$ST\$Ind3\$stVal	migh speed digitar input, channel 3	once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGI01\$ST\$Ind3\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 3); 0x40	Populated when
extdiGGI01\$ST\$Ind4\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 4	Update at least
extdiGGI01\$ST\$Ind4\$stVal		once every 10
TEC61850SRVMeas/	Matar timestamp (see note 1 bolow)	Indate when DT
evtdiCCTO1\$ST\$tpd4\$t	Merer cruescamb (see nors r perow)	etate changed
IEC61850SRVMeas/	0x00 (DI board present on slot 3); 0x40	Populated when
extdiGGI01\$ST\$Ind5\$g	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 5	Update at least
extdiGGIO1\$ST\$Ind5\$stVal		once every 10
		msec



IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGI01\$ST\$Ind5\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 3); 0x40	Populated when
extdiGGI01\$ST\$Ind6\$q	(otherwise)	server is up
IEC6185USRVMeas/	High speed digital input, channel 6	Update at least
extdlGGlOl\$ST\$Indb\$stVal		once every 10
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Msec Undate when DI
extdiGGI01\$ST\$Ind6\$t	Heter timestamp (see Hote i berow)	state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 3); 0x40	Populated when
extdiGGI01\$ST\$Ind7\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 7	Update at least
extdiGGIO1\$ST\$Ind7\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGI01\$ST\$Ind7\$t		state changed
IEC61850SRVMedS/	(sthewise)	Populated when
TEC61850SRVMeas/	(otherwise) High speed digital input, channel 8	Update at least
extdiGGIO1\$ST\$Ind8\$stVal	nigh opeca aigical inpac, channel c	once every 10
011011011011011111100100101		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGI01\$ST\$Ind8\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 3); 0x40	Populated when
extdiGGI01\$ST\$Ind9\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 9	Update at least
extdiGGIO1\$ST\$Ind9\$stVal		once every 10
	Matan timostama (ana mata 1 halan)	msec
IEC61850SRVMeas/	Meter timestamp (see note i below)	update when Di
TEC61850SRVMeas/	0x00 (DI board present on slot 3): 0x40	State changed Populated when
extdiGGT01\$ST\$Ind10\$a	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 10	Update at least
extdiGGI01\$ST\$Ind10\$stVal		once every 10
		msec
		110000
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
IEC61850SRVMeas/ extdiGGI01\$ST\$Ind10\$t	Meter timestamp (see note 1 below)	Update when DI state changed
IEC61850SRVMeas/ extdiGGI01\$ST\$Ind10\$t IEC61850SRVMeas/	Meter timestamp (see note 1 below) 0x00 (DI board present on slot 3); 0x40	Update when DI state changed Populated when
IEC61850SRVMeas/ extdiGGI01\$ST\$Ind10\$t IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$q IEC61850SRVMeas/	Meter timestamp (see note 1 below) 0x00 (DI board present on slot 3); 0x40 (otherwise) High speed digital input channel 11	Update when DI state changed Populated when server is up
IEC61850SRVMeas/ extdiGGI01\$ST\$Ind10\$t IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$q IEC61850SRVMeas/ oxtdiCCI01\$SESEnd11\$stVa1	Meter timestamp (see note 1 below) 0x00 (DI board present on slot 3); 0x40 (otherwise) High speed digital input, channel 11	Update when DI state changed Populated when server is up Update at least
IEC61850SRVMeas/ extdiGGI01\$ST\$Ind10\$t IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$q IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$stVal	Meter timestamp (see note 1 below) 0x00 (DI board present on slot 3); 0x40 (otherwise) High speed digital input, channel 11	Update when DI state changed Populated when server is up Update at least once every 10 msec
IEC61850SRVMeas/ extdiGGI01\$ST\$Ind10\$t IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$q IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$stVal IEC61850SRVMeas/	Meter timestamp (see note 1 below) 0x00 (DI board present on slot 3); 0x40 (otherwise) High speed digital input, channel 11 Meter timestamp (see note 1 below)	Update when DI state changed Populated when server is up Update at least once every 10 msec Update when DI
IEC61850SRVMeas/ extdiGGI01\$ST\$Ind10\$t IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$q IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$stVal IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$t	Meter timestamp (see note 1 below) 0x00 (DI board present on slot 3); 0x40 (otherwise) High speed digital input, channel 11 Meter timestamp (see note 1 below)	Update when DI state changed Populated when server is up Update at least once every 10 msec Update when DI state changed
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IEC61850SRVMeas/ extdiGGI01\$ST\$Ind10\$t IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$q IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$stVal IEC61850SRVMeas/ extdiGGI01\$ST\$Ind11\$t IEC61850SRVMeas/ extdiGGI01\$ST\$Ind12\$q IEC61850SRVMeas/ extdiGGI01\$ST\$Ind12\$stVal	Meter timestamp (see note 1 below) 0x00 (DI board present on slot 3); 0x40 (otherwise) High speed digital input, channel 11 Meter timestamp (see note 1 below) 0x00 (DI board present on slot 3); 0x40 (otherwise) High speed digital input, channel 12	Update when DI state changed Populated when server is up Update at least once every 10 msec Update when DI state changed Populated when server is up Update at least once every 10
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IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGI01\$ST\$Ind15\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 3); 0x40	Populated when
extdiGGI01\$ST\$Ind16\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 16	Update at least
extdiGGI01\$ST\$Ind16\$stVal		once every 10
		msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGI01\$ST\$Ind16\$t		state changed
IEC61850SRVMeas/extdiGGI01\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up.
IEC61850SRVMeas/	1 = "ON"	Read only.
extdiGGI01\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/extdiGGIO1\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up.

## 5.2.6 Logic Node: IEC61850SRVMEAS/GGIO2

OBJECT PATH	VALUE	COMMENT
	GGI02	
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
extdiGGIO2\$CF\$Mod\$ctlModel		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.
extdiGGI02\$DC\$Health\$d		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind1\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 1"	Read only.
		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind2\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 2"	Read only.
		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind3\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 3"	Read only.
		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind4\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 4"	Read only.
		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind5\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 5"	Read only.
		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind6\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 6"	Read only.
		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind7\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 7"	Read only.
		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind8\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 8"	Read only.
		Constant
IEC61850SRVMeas/extdiGGI02\$DC\$Ind9\$d	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL 9"	Read only.
		Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL	Read only.
extdiGGIO2\$DC\$Ind10\$d	10"	Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL	Read only.
extdiGGIO2\$DC\$Ind11\$d	11"	Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL	Read only.
extdiGGI02\$DC\$Ind12\$d	12"	Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL	Read only.
extdiGGI02\$DC\$Ind13\$d	13"	Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 4) DIGITAL INPUT: CHANNEL	Read only.
extdiGGI02\$DC\$Ind14\$d	14"	Constant
IEC61850SRVMeas/	"OPTION BOARD (SLOT 3) DIGITAL INPOT: CHANNEL	Read only.
extdiGGI02\$DC\$Ind15\$d	15" "OPETON BOARD (SLOW 4) DICIMAL INDUM, CHANNEL	Constant Road only
IEC6185USRVMeas/	CPTION BOARD (SLOT 4) DIGITAL INPOT: CHANNEL	Read only.
EXTAIGGIO2\$DC\$INA16\$A	LO" "OPERATING MODE"	Constant Road only
TEC010305RVMeas/excatGG1023DC3M0d3d	OPERALING MODE	Read Only.
TEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only
aut di CCTO26DC6NamD1+6-1	POSTOUR MODE NUMBERATE	Constant
EXCULGEIOZSDCSNAMPITSA	Comm runtime version	Read only
ovtdiCCIO2\$DC\$NamP1+\$crrPort	COMM FAILETWE VELSTON	Constant
TEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only
ovtdiCCIO2\$DC\$NamPlt\$vondor		Constant
EXECTEGIOS SDCSINGIILICS AGUIDOT		Constant



IEC61850SRVMeas/extdiGGI02\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up.
IEC61850SRVMeas/	1 = "ON"	Read only.
EXTClGGIO2\$ST\$BEN\$StVal	Meter timestamp (see note 1 2 3 below)	Constant Populated when
THEOTOSUSKUMEds/ Excurgerozysrybenyc	Meter timestamp (see note 1,2,5 below)	server is up
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
extdiGGIO2\$ST\$Health\$q	not health)	server is up.
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated when
extdiGGIO2\$ST\$Health\$stVal	health)	server is up.
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when
extdiGGI02\$ST\$Health\$t	0,000 (DI board progent on glot 4), 0,40	server is up.
IEC010505RVMeas/excalGG1029519111019q	(otherwise)	sorvor is up
IEC61850SRVMeas/	High speed digital input, channel 1	Update at least
extdiGGI02\$ST\$Ind1\$stVal		every 10msec
IEC61850SRVMeas/extdiGGI02\$ST\$Ind1\$t	Meter timestamp (see note 1 below)	Update when DI
		state changed
IEC61850SRVMeas/extdiGGIO2\$ST\$Ind2\$q	0x00 (DI board present on slot 4); 0x40	Populated when
	(otherwise)	server is up
IEC6185USRVMeas/	ніgn speed digital input, channel 2	update at least
extalGG102\$ST\$1nd2\$stVal TEC61850SRVMeas/extdicct02\$ST\$tpd2\$+	Meter timestamp (see note 1 below)	Undate when DT
19001000000000000000000000000000000000	Herer stuescamb (see Hore I DETOM)	state changed
IEC61850SRVMeas/extdiGGI02\$ST\$Ind3\$q	0x00 (DI board present on slot 4); 0x40	Populated when
· *	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 3	Update at least
extdiGGI02\$ST\$Ind3\$stVal		every 10msec
IEC61850SRVMeas/extdiGGI02\$ST\$Ind3\$t	Meter timestamp (see note 1 below)	Update when DI
		state changed
IEC61850SRVMeas/extaiGG102\$ST\$Ind4\$q	(attraction (DI board present on slot 4); 0x40	Populated when
TEC61850SBVMeas/	(otherWise) High speed digital input, channel 4	Update at least
extdiGGIO2\$ST\$Ind4\$stVal	nigh opeed digital inpac, channel i	every 10msec
IEC61850SRVMeas/extdiGGI02\$ST\$Ind4\$t	Meter timestamp (see note 1 below)	Update when DI
		state changed
IEC61850SRVMeas/extdiGGI02\$ST\$Ind5\$q	0x00 (DI board present on slot 4); 0x40	Populated when
	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 5	Update at least
extdiGGIO2\$ST\$Ind5\$stVal	Meter timestamp (see note 1 below)	every 10msec
Theorem and the started of the start	Meter timestamp (see note i berow)	state changed
IEC61850SRVMeas/extdiGGI02\$ST\$Ind6\$q	0x00 (DI board present on slot 4); 0x40	Populated when
-	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 6	Update at least
extdiGGIO2\$ST\$Ind6\$stVal		every 10msec
IEC61850SRVMeas/extdiGGIO2\$ST\$Ind6\$t	Meter timestamp (see note 1 below)	Update when DI
TEC61850SDVMess/ovtdicctolssmetsdate	Avan (DI board progent on glot 4) · 0.40	state changed
THEATO2020ALLEG2/EXCATEGIO552151U0/5d	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 7	Update at least
extdiGGIO2\$ST\$Ind7\$stVal		every 10msec
IEC61850SRVMeas/extdiGGIO2\$ST\$Ind7\$t	Meter timestamp (see note 1 below)	Update when DI
		state changed
IEC61850SRVMeas/extdiGGIO2\$ST\$Ind8\$q	0x00 (DI board present on slot 4); 0x40	Populated when
TEC61950SDUMOSS /	(otherwise)	server is up
IECUIOJUSKVMEdS/	nigh speed digital input, channel o	opuale at least
IEC61850SRVMeas/extdiGGT02\$ST\$Ind8\$t	Meter timestamp (see note 1 below)	Update when DT
		state changed
IEC61850SRVMeas/extdiGGIO2\$ST\$Ind9\$q	0x00 (DI board present on slot 4); 0x40	Populated when
	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 9	Update at least
extdiGGIO2\$ST\$Ind9\$stVal		every 10msec
IEC6185USRVMeas/extd1GGIO2\$ST\$Ind9\$t	Meter timestamp (see note 1 below)	update when DI
IEC61850SRVMeas/	0x00 (DI board present on slot 4) · 0x40	State changed Populated when
extdiGGIO2\$ST\$Ind10\$a	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 10	Update at least
extdiGGIO2\$ST\$Ind10\$stVal	_	every 10msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGIO2\$ST\$Ind10\$t		state changed



IEC61850SRVMeas/	0x00 (DI board present on slot 4); 0x40	Populated when
extdiGGIO2\$ST\$Ind11\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 11	Update at least
extdiGGIO2\$ST\$Ind11\$stVal		every 10msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGIO2\$ST\$Ind11\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 4); 0x40	Populated when
extdiGGIO2\$ST\$Ind12\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 12	Update at least
extdiGGIO2\$ST\$Ind12\$stVal		every 10msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGIO2\$ST\$Ind12\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 4); 0x40	Populated when
extdiGGIO2\$ST\$Ind13\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 13	Update at least
extdiGGIO2\$ST\$Ind13\$stVal		every 10msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGIO2\$ST\$Ind13\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 4); 0x40	Populated when
extdiGGIO2\$ST\$Ind14\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 14	Update at least
extdiGGIO2\$ST\$Ind14\$stVal		every 10msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGIO2\$ST\$Ind14\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 4); 0x40	Populated when
extdiGGIO2\$ST\$Ind15\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 15	Update at least
extdiGGIO2\$ST\$Ind15\$stVal		every 10msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGIO2\$ST\$Ind15\$t		state changed
IEC61850SRVMeas/	0x00 (DI board present on slot 4); 0x40	Populated when
extdiGGIO2\$ST\$Ind16\$q	(otherwise)	server is up
IEC61850SRVMeas/	High speed digital input, channel 16	Update at least
extdiGGIO2\$ST\$Ind16\$stVal		every 10msec
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when DI
extdiGGIO2\$ST\$Ind16\$t		state changed
IEC61850SRVMeas/extdiGGIO2\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up.
IEC61850SRVMeas/	1 = "ON"	Read only.
extdiGGIO2\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/extdiGGIO2\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up.

#### 5.2.7: Logic Node: IEC61850SRVMEAS/GGIO1

OBJECT PATH	VALUE	COMMENT
	GGI01	
IEC61850SRVMeas/vrtinG-	0 = "STATUS-ONLY"	Read only. Constant
GI01\$CF\$Mod\$ctlModel		
IEC61850SRVMeas/vrtinG-	"OPERATING MODE BEHAVIOR"	Read only. Constant
GI01\$DC\$Beh\$d		
IEC61850SRVMeas/vrtinG-	"1=OK, 2=WARNING, 3=ALARM"	Read only. Constant
GI01\$DC\$Health\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #01"	Read only. Constant
GI01\$DC\$Ind1\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #02"	Read only. Constant
GI01\$DC\$Ind2\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #03"	Read only. Constant
GI01\$DC\$Ind3\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #04"	Read only. Constant
GI01\$DC\$Ind4\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #05"	Read only. Constant
GI01\$DC\$Ind5\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #06"	Read only. Constant
GI01\$DC\$Ind6\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #07"	Read only. Constant
GIO1\$DC\$Ind7\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #08"	Read only. Constant
GIO1\$DC\$Ind8\$d		



IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #09"	Read only. Constant
GT01\$DC\$Tpd9\$d		
TEC61850SBVMeas/vrtinG-	"VIRTUAL INPUT' BOOLEAN #10	Read only Constant
GTO1 SDCSTrd10Sd	VIRIOUE INFOIL BOOLDING #10	noud only. conscane
TEC61950SPVMons/wrtinC-	"MIDTINI INDUT. DOOLDAN #11"	Road only Constant
	VIRIORE INFOI: DOODERN #11	Read Only. Constant
TEC61950C9THAII90	"MIDTINI INDUT. DOOLDAN #12"	Road only Constant
IECOIOJOSKVMeds/VICING-	VIRIOAL INPOL: BOOLEAN #12	Read Only. Constant
GIOISDCSIndl2Sd		
IEC6185USRVMeas/Vrting-	"VIRTUAL INPUT: BOOLEAN #13"	Read only. Constant
GIO1\$DC\$Ind13\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #14"	Read only. Constant
GIO1\$DC\$Ind14\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #15"	Read only. Constant
GIO1\$DC\$Ind15\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: BOOLEAN #16"	Read only. Constant
GIO1\$DC\$Ind16\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #01"	Read only. Constant
GIO1\$DC\$Ind17\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #02"	Read only. Constant
GI01\$DC\$Ind18\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #03"	Read only. Constant
GIO1\$DC\$Ind19\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #04"	Read only. Constant
GIO1\$DC\$Ind20\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #05"	Read only. Constant
GI01\$DC\$Ind21\$d		_
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #06"	Read only. Constant
GIO1\$DC\$Ind22\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #07"	Read only. Constant
GI01\$DC\$Ind23\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #08"	Read only. Constant
GI01\$DC\$Ind24\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #09"	Read only. Constant
GI01\$DC\$Ind25\$d		-
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #10"	Read only. Constant
GI01\$DC\$Ind26\$d		-
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #11"	Read only. Constant
GIO1\$DC\$Ind27\$d		-
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #12"	Read only. Constant
GI01\$DC\$Ind28\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #13"	Read only. Constant
GI01\$DC\$Ind29\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #14"	Read only. Constant
GI01\$DC\$Ind30\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #15"	Read only. Constant
GIO1\$DC\$Ind31\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: SPS #16"	Read only. Constant
GIO1\$DC\$Ind32\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #01"	Read only. Constant
GIO1\$DC\$AnIn1\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #02"	Read only. Constant
GIO1\$DC\$AnIn2\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #03"	Read only. Constant
GIO1\$DC\$AnIn3\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #04"	Read only. Constant
GIO1\$DC\$AnIn4\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #05"	Read only. Constant
GIO1\$DC\$AnIn5\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #06"	Read only. Constant
GIO1\$DC\$AnIn6\$d		
1EC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #07"	Read only. Constant
GIO1\$DC\$AnIn7\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #08"	Read only. Constant
GIO1\$DC\$AnIn8\$d		
1EC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #09"	Read only. Constant
GIO1\$DC\$AnIn9\$d		
IEC6185USRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #10"	keaα on⊥y. Constant
GIOI\$DC\$AnIn10\$d		Deed only Constant
ILCOISSUSKVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #11"	keau only. Constant
GIOISDCSANINIISd	WITERIAL INDUE, INCORD #108	Deed only Constant
ILCOIGDUSKVMeas/VrtinG-	VIRIUAL INPUT: INTEGER #12"	Reau ONLY. CONSTANT
GIUI\$DC\$AnIn12\$d	HUTDHIAT THDIM, THERED #100	Bood only Constant
ILCOIGDUSKVMeas/Vrting-	VIRIOAL INPUT: INTEGER #13"	Reau only. Constant
	WAIDTHAT THOMP, THTPCTD #148	Pood only Constant
CTO1\$DC\$Apts14\$d	VINIOAD INFOL: INIEGER #14"	Near Only. Constant
ατοτόης όμπτητη όσ		



IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #15"	Read only. Constant
GIO1\$DC\$AnIn15\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: INTEGER #16"	Read only. Constant
GI01\$DC\$AnIn16\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #01"	Read only. Constant
GIO1\$DC\$AnIn17\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #02"	Read only. Constant
GIO1\$DC\$AnIn18\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #03"	Read only. Constant
GIO1\$DC\$AnIn19\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #04"	Read only. Constant
GIO1\$DC\$AnIn20\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #05"	Read only. Constant
GIO1\$DC\$AnIn21\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #06"	Read only. Constant
GIO1\$DC\$AnIn22\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #07"	Read only. Constant
GIOI\$DC\$AnIn23\$d		
IEC6185USRVMeas/vrting-	"VIRTUAL INPUT: FLOAT #08"	Read only. Constant
GIOISDCSANIN24Sd	WAIDDING INDIM. DIONE #00"	Pood only Constant
CIO16DCGARTE256d	VIRIOAL INPOL: FLOAI #09	Read only. Constant
TEC61950SPUMons (untin C-	"VIDTIAL INDUT. FLOAT #10"	Pood only Constant
GIO1SDCSApIp265d	VINIONE INFOI, FEORI #10	nead only. Constant
TEC61850SRVMeas/wrting-	"VIRTUAL INPUT. FLOAT #11"	Read only Constant
GIO1SDCSApIp275d	VINIONE INFOI. FEORI #11	Read Only. Constant
TEC61850SRVMeas/wrting-	"VIRTUAL INPUT: FLOAT #12"	Read only. Constant
GTO1SDCSAnTn285d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT. FLOAT #13"	Read only Constant
GIO1SDCSAnIn29Sd	VINTOILE INFOIL FLOID #10	nead only. conceane
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #14"	Read only. Constant
GTO1\$DC\$AnTn30\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #15"	Read only. Constant
GTO1\$DC\$AnTn31\$d		
IEC61850SRVMeas/vrtinG-	"VIRTUAL INPUT: FLOAT #16"	Read only. Constant
GT01\$DC\$AnIn32\$d	<b>-</b>	
IEC61850SRVMeas/vrtinG-	"OPERATING MODE"	Read only. Constant
GI01\$DC\$Mod\$d		-
IEC61850SRVMeas/vrtinG-	"LOGICAL NODE NAMEPLATE"	Read only. Constant
GI01\$DC\$NamPlt\$d		
IEC61850SRVMeas/vrtinG-	Comm runtime version	Populated when server is up.
GI01\$DC\$NamPlt\$swRev		
IEC61850SRVMeas/vrtinG-	"ELECTRO INDUSTRIES"	Read only. Constant
GI01\$DC\$NamPlt\$vendor		
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn1\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #01	Update when receive GOOSE message:
GIO1\$MX\$AnIn1\$stVal		INTEGER #01 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn1\$t		INTEGER #01 data type
ILCOIOJUSKVMeas/VrtinG-	(athemaine)	roputated when server is up
GLULSMXSANIN2Sq TEC61950SDMcocc/meticc	(OtherWise)	Undate when receive COOR
CTO1 \$MV\$ ApTp2 \$c+1/2]	VIICUAI INPUC. INIEGER GALA LYPE #02	INTECEP #02 data trma
JULIPHAPAHIHZSSUVAL	Meter timestamp (see noto 1 bolow)	Indate when receive COOSE mossage.
CTO1 \$MY\$ aptp2\$+	THESE CIMESCAMP (SEE HOLE I DETOW)	INTEGER #02 data type
TEC61850SRVMpas/wrting-	0x00 (received at least once) · 0x40	Populated when server is up
GIO1 ŚMXŚ Apin3śc	(otherwise)	reparacea when perver to up
TEC61850SRVMeas/wrting-	Virtual Input: INTEGER data type #03	Update when receive GOOSE message.
GTO1\$MX\$AnTn3\$stVal	virodar impao. inizozni adda cype "co	INTEGER #03 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message.
GIO1\$MX\$AnIn3\$t		INTERPORT 402 data toma
IEC61850SRVMeas/vrtinG-		INTEGER #US data type
GTO1\$MX\$AnTn4\$g	0x00 (received at least once); 0x40	Populated when server is up
01010101010111100	0x00 (received at least once); 0x40 (otherwise)	Populated when server is up
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04	Populated when server is up Update when receive GOOSE message:
IEC61850SRVMeas/vrtinG- GI01\$MX\$AnIn4\$stVal	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04	Update when receive GOOSE message: INTEGER #04 data type
IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below)	Update when receive GOOSE message: INTEGER #04 data type Update when receive GOOSE message:
IEC61850SRVMeas/vrtinG- GI01\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG- GI01\$MX\$AnIn4\$t	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below)	Populated when server is up Update when receive GOOSE message: INTEGER #04 data type Update when receive GOOSE message: INTEGER #04 data type
IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$t IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40	Populated when server is up Update when receive GOOSE message: INTEGER #04 data type Update when receive GOOSE message: INTEGER #04 data type Populated when server is up
IEC61850SRVMeas/vrtinG- GI01\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG- GI01\$MX\$AnIn4\$t IEC61850SRVMeas/vrtinG- GI01\$MX\$AnIn5\$q	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise)	Populated when server is up Update when receive GOOSE message: INTEGER #04 data type Update when receive GOOSE message: INTEGER #04 data type Populated when server is up
IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$t IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$q IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #05	INTEGER #03 data type Populated when server is up Update when receive GOOSE message: INTEGER #04 data type Update when receive GOOSE message: INTEGER #04 data type Populated when server is up Update when receive GOOSE message:
IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$t IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$q IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$stVal	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #05	INTEGER #05 data type         Populated when server is up         Update when receive GOOSE message:         INTEGER #04 data type         Update when receive GOOSE message:         INTEGER #04 data type         Populated when server is up         Update when receive GOOSE message:         INTEGER #04 data type         Populated when server is up         Update when receive GOOSE message:         INTEGER #05 data type
IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$t IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$q IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$stVal IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #05 Meter timestamp (see note 1 below)	Populated when server is up Update when receive GOOSE message: INTEGER #04 data type Update when receive GOOSE message: INTEGER #04 data type Populated when server is up Update when receive GOOSE message: INTEGER #05 data type Update when receive GOOSE message:
IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$t IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$q IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$stVal IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$st	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #05 Meter timestamp (see note 1 below)	INTEGER #05 data type         Populated when server is up         Update when receive GOOSE message:         INTEGER #04 data type         Update when receive GOOSE message:         INTEGER #04 data type         Populated when server is up         Update when receive GOOSE message:         INTEGER #05 data type         Update when receive GOOSE message:         INTEGER #05 data type         Update when receive GOOSE message:         INTEGER #05 data type
IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn4\$t IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$q IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$stVal IEC61850SRVMeas/vrtinG- GIO1\$MX\$AnIn5\$t IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #04 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: INTEGER data type #05 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40	INTEGER #03 data type         Populated when server is up         Update when receive GOOSE message:         INTEGER #04 data type         Update when receive GOOSE message:         INTEGER #04 data type         Populated when server is up         Update when receive GOOSE message:         INTEGER #05 data type         Update when receive GOOSE message:         INTEGER #05 data type         Update when server is up



IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #06	Update when receive GOOSE message:
GIO1\$MX\$AnIn6\$stVal		INTEGER #06 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn6\$t		INTEGER #06 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn7\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #07	Update when receive GOOSE message:
GIO1\$MX\$AnIn7\$stVal		INTEGER #07 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn7\$t		INTEGER #07 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn8\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #08	Update when receive GOOSE message:
GIO1\$MX\$AnIn8\$stVal		INTEGER #08 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GI01\$MX\$AnIn8\$t		INTEGER #08 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn9\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #09	Update when receive GOOSE message:
GIO1\$MX\$AnIn9\$stVal		INTEGER #09 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn9\$t		INTEGER #09 data type
IEC61850SRVMeas/vrtinG-	UxUU (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn10\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #10	Update when receive GOOSE message:
GIO1\$MX\$AnIn10\$stVal		INTEGER #10 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn10\$t		INTEGER #10 data type
IEC61850SRVMeas/vrtinG-	UxUU (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn11\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #11	Update when receive GOOSE message:
GIO1\$MX\$AnIn11\$stVal		INTEGER #11 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn11\$t		INTEGER #11 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn12\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #12	Update when receive GOOSE message:
GIO1\$MX\$AnIn12\$stVal		INTEGER #12 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn12\$t		INTEGER #12 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn13\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #13	Update when receive GOOSE message:
GIO1\$MX\$AnIn13\$stVal		INTEGER #13 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn13\$t		INTEGER #13 data type
IEC61850SRVMeas/vrtinG-	UXUU (received at least once); UX40	Populated when server is up
GIO1\$MX\$AnIn14\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: INTEGER data type #14	Update when receive GOOSE message:
GIO1\$MX\$AnIn14\$stVal		INTEGER #14 data type
ILCOISSUSRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIOISMXSAnIn14St	Owoo (received at least succes) of the	INTEGER #14 data type
CTO1 CMVCD=T=15C	(athennies)	ropulated when server is up
GLULSMXSANINISSQ	(OtherWise)	Undate when receive COOP
	VIICUAI INPUC: INTEGER data type #15	INTERED #15 Jata to COUSE Message:
GIUIŞMXŞANINISŞSTVAL	Motor timostamp (see note 1 below)	INTEGER #15 data type
CTO1 SMVS ApTp15C+	Meter timestamp (see note 1 below)	INTECED #15 data trma
GIUIAMAANINIJAT	Owon (received at least ence). Or 40	Populated when server is up
CTO1 SMVS Apto1 6 C	(otherwise)	roputated when server is up
JEC61850SRVMeas/wrtinC-	Virtual Input: INTECEP data type #16	Undate when receive COOSE mossage.
	VIICUAL INPUC, INIDGER GALA CYPE #10	INTECED #16 data time
TEC61850SRVMaae/vortinc-	Meter timestamp (see note 1 bolow)	Indate when receive COOSE mossage.
	Lecer cruescamp (see note 1 berow)	INTERED #16 data tree
GIUIAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Ov00 (received at loast onco). 0v40	POPulated when server is up
GTO1 ŚMYŚ aptp17Ś~	(otherwise)	robaracea when server is ub
TEC61850SRVMeas/wrtinc-	Virtual Input: FLOAT data type #01	Undate when receive COOSE message:
CTO1 ŚMYŚ aptp176 of Wol	vireau input. Inoni data type #01	FIONT #01 data tupo
TEC61850SRVMeas/wrtinc-	Meter timestamp (see note 1 below)	Undate when receive COOSE message.
GTO1 ŚMYŚ aptp17\$+	THESE CIMESCAMP (SEE HOLE I DEIOM)	FIONT #01 data type
TEC61850SRVMeas/wrting-	0x00 (received at least once) · 0x40	Populated when server is up
GTO1\$MY\$aptp18\$~	(otherwise)	Tobatacea when perver to ab
TEC61850SRVMeas/wrting-	Virtual Input: FLOAT data type #02	Undate when receive GOOSE message:
GTO1 \$MY\$ anTn18\$ atVo1		FLOAT #02 data type
TEC61850SRVMeas/vrting-	Meter timestamp (see note 1 below)	Update when receive GOOSE message.
GTO1\$MX\$AnTn18\$+	(ccc note i betow)	FLOAT #02 data type
010141114111040		TTOTT NOT AACA CIPC



IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn19\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #03	Update when receive GOOSE message:
GIOI\$MX\$Anin19\$stVal	Mater timestamp (see note 1 below)	FLOAT #03 data type
GIO1SMXSAnIn19St	Heter timestamp (see Hote i below)	FLOAT #03 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn20\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #04	Update when receive GOOSE message:
GIO1\$MX\$AnIn20\$stVal		FLOAT #04 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIOIŞMXŞANIN2UŞT IEC61850SRVMeas/wrtinG-	0x00 (received at least once) · 0x40	PLOAT #04 data type Populated when server is up
GTO1\$MX\$AnIn21\$a	(otherwise)	Toputated when server is up
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #05	Update when receive GOOSE message:
GIO1\$MX\$AnIn21\$stVal		FLOAT #05 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn21\$t		FLOAT #05 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
TEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #06	Update when receive GOOSE message:
GIO1\$MX\$AnIn22\$stVal	filedal input: iloni data type "to	FLOAT #06 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn22\$t		FLOAT #06 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn23\$q	(otherwise)	
IEC6185USRVMeas/vrtinG-	virtual input: FLOAT data type #07	update when receive GOOSE message:
TEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message.
GTO1\$MX\$AnTn23\$t	inceer ermestamp (see note r serow)	FLOAT #07 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn24\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #08	Update when receive GOOSE message:
GIO1\$MX\$AnIn24\$stVal		FLOAT #08 data type
IEC6185USRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIOIŞMXŞANIN24Şt IEC61850SRVMeas/wrtinG-	0x00 (received at least once) · 0x40	FLOAT #08 data type Populated when server is up
GIO1\$MX\$AnIn25\$g	(otherwise)	roparacea when berver is ap
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #09	Update when receive GOOSE message:
GIO1\$MX\$AnIn25\$stVal		FLOAT #09 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn25\$t		FLOAT #09 data type
CIO1\$MY\$ApIp265a	(otherwise)	Populated when server is up
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #10	Update when receive GOOSE message:
GIO1\$MX\$AnIn26\$stVal		FLOAT #10 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn26\$t		FLOAT #10 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn27\$q	(otherwise)	Undate when receive COOCE measures
GIO1 ŚMYŚADID27 Śct Val	Virtuai input: FLOAI data type #11	FLOAT #11 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn27\$t		FLOAT #11 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn28\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #12	Update when receive GOOSE message:
GIUI PMAPANINZOPSTVAL TEC61850SRVMeas/wrting-	Meter timestamp (see note 1 below)	Indate when receive GOOSE message.
GIO1\$MX\$AnIn28\$t	TOPE CINCOLAMP (DEE HOLE I DEIOW)	FLOAT #12 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$MX\$AnIn29\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #13	Update when receive GOOSE message:
GIO1\$MX\$AnIn29\$stVal	Motor timostome (see sets 1 1.1.1.)	FLOAT #13 data type
CTO1\$MY\$ApTp20\$+	Merer rimesramb (see note i below)	FLOAT #13 data twoo
IEC61850SRVMeas/vrtinG-	0x00 (received at least once): 0x40	Populated when server is up
GIO1\$MX\$AnIn30\$q	(otherwise)	*
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #14	Update when receive GOOSE message:
GIO1\$MX\$AnIn30\$stVal		FLOAT #14 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn30\$t	lavon (reactived at least creat) or 40	FLOAT #14 data type
GIO1SMXSAnIn31Sa	(otherwise)	roputated when server is up
IEC61850SRVMeas/vrtinG-	Virtual Input: FLOAT data type #15	Update when receive GOOSE message:
GIO1\$MX\$AnIn31\$stVal		FLOAT #15 data type



	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn31\$t		FLOAT #15 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once): 0x40	Populated when server is up
		roparadoa whon bortor ro ap
GIOI\$MX\$ANIN32\$q	(Otherwise)	The last section 200007
IEC61850SRVMeas/Vrting-	Virtual Input: FLOAT data type #16	Update when receive GOOSE message:
GIO1\$MX\$AnIn32\$stVal		FLOAT #16 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$MX\$AnIn32\$t		FLOAT #16 data type
	•	
IEC61850SRVMeas/vrtinG-	0x00 (Comm runtime health); 0x40 (Comm	Populated when server is up.
GTO1 SSTSBebSa	runtime not health)	* *
JEC61850SBUMoos /urtinC-	1 - "ON"	Pood only Constant
TECOIDSUSKVMeds/VICING-	I = ON	Read Only. Constant
GIOIŞSTŞBenşstval		
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1,2,3 below)	Populated when server is up.
GIO1\$ST\$Beh\$t		
IEC61850SRVMeas/vrtinG-	0x00 (Comm runtime health); 0x40 (Comm	Populated when server is up.
GIO1\$ST\$Health\$q	runtime not health)	
IEC61850SRVMeas/vrtinG-	1 (Comm runtime health); 2 (Comm runtime	Populated when server is up.
GIO1\$ST\$Health\$stVal	not health)	n n
IEC61850SBVMeas/vrtinG-	Meter timestamp (see note 1.2.3 below)	Populated when server is up
	10001 01100000mp (000 1000 1/2/0 2010m)	roparadoa whom borror ro ap.
		Denvlated when severe is we
arolognary lice	(athe inc)	roputated when server is up
GIOISSISINGISG	(otnerwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #01	Update when receive GOOSE message:
GIO1\$ST\$Ind1\$stVal		BOOLEAN #01 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GI01\$ST\$Ind1\$t		BOOLEAN #01 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GI01\$ST\$Ind2\$g	(otherwise)	*
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #02	Update when receive GOOSE message.
CTO1\$ST\$Tpd2\$stWp1		POOLEAN #02 data typo
JEC61850SRVMoos /urtinC-	Motor timestamp (see note 1 below)	Update when receive COOSE message:
CTO100005KVMeds/VICING-	Meter trimestamp (see note r berow)	opuate when receive GOOSE message.
GIUISSTSINdZSt		BUOLEAN #UZ data type
IEC61850SRVMeas/Vrting-	UXUU (received at least once); UX40	Populated when server is up
GI01\$ST\$Ind3\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #03	Update when receive GOOSE message:
GIO1\$ST\$Ind3\$stVal		BOOLEAN #03 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GI01\$ST\$Ind3\$t		BOOLEAN #03 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GTO1\$ST\$Ind4\$a	(otherwise)	* *
	Virtual Input, BOOLEAN data tura #04	Undate when receive GOOSE message:
LECHINGSBUSBUMPAS/WRTING=		ODdduuce WHCH ICCCIVE OCODE HCEBBaac.
IEC6185USRVMeas/vrting-	VIItual Input: BOOLEAN data type #04	ROOLENN #04 data time
GIO1\$ST\$Ind4\$stVal	Mater timeters (or sets 1 below)	BOOLEAN #04 data type
GIO1\$SUSKVMeas/Vrting- GIO1\$ST\$Ind4\$stVal IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	BOOLEAN #04 data type Update when receive GOOSE message:
GLO1\$SUSKVMeas/VrtinG- GIO1\$ST\$Ind4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind4\$t	Meter timestamp (see note 1 below)	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type
GIO1\$ST\$Ind4\$stVal GIO1\$ST\$Ind4\$stVal GIO1\$ST\$Ind4\$t IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type Populated when server is up
GLO1\$SUS\$VMeas/VrtinG- GLO1\$ST\$Ind4\$stVal IEC61850SRVMeas/vrtinG- GLO1\$ST\$Ind4\$t IEC61850SRVMeas/vrtinG- GLO1\$ST\$Ind5\$q	Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise)	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type Populated when server is up
GLO1\$SUS\$KVMeas/VrtinG- GLO1\$ST\$Ind4\$stVal IEC61850SRVMeas/vrtinG- GLO1\$ST\$Ind4\$t IEC61850SRVMeas/vrtinG- GLO1\$ST\$Ind5\$q IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #05	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type Populated when server is up Update when receive GOOSE message:
GIO1\$ST\$Ind4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind4\$t IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind5\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind5\$stVal	Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #05	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #05 data type
IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind4\$stVal IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind4\$t IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind5\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind5\$stVal IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #05 Meter timestamp (see note 1 below)	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #05 data type Update when receive GOOSE message:
IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind4\$stVal IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind4\$t IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind5\$q IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind5\$stVal IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind5\$t	Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #05 Meter timestamp (see note 1 below)	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #05 data type Update when receive GOOSE message: BOOLEAN #05 data type
IEC618505RVMeas/vrtinG- GIO1\$ST\$Ind4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind4\$t IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind5\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind5\$stVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind5\$t IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #05 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #05 data type Update when receive GOOSE message: BOOLEAN #05 data type Populated when server is up
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IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind4\$stVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind4\$t IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind5\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind5\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind6\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind6\$stVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind6\$t IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind7\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind7\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind7\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind7\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind7\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind8\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind8\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind8\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$q IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$t IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVMeas/vrtinG- GIO1\$ST\$Ind9\$tVal IEC61850SRVM	Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #05 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #06 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #07 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #07 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #08 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #09 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise) Virtual Input: BOOLEAN data type #09 Meter timestamp (see note 1 below) 0x00 (received at least once); 0x40 (otherwise)	BOOLEAN #04 data type Update when receive GOOSE message: BOOLEAN #04 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #05 data type Update when receive GOOSE message: BOOLEAN #05 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #06 data type Update when receive GOOSE message: BOOLEAN #06 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #06 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #07 data type Update when receive GOOSE message: BOOLEAN #07 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #08 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #08 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #08 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #08 data type Populated when server is up Update when receive GOOSE message: BOOLEAN #09 data type Populated when server is up



IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #10	Update when receive GOOSE message:
GIO1\$ST\$Ind10\$stVal		BOOLEAN #10 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GI01\$ST\$Ind10\$t		BOOLEAN #10 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GI01\$ST\$Ind11\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #11	Update when receive GOOSE message:
GIO1\$ST\$Ind11\$stVal		BOOLEAN #11 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$Ind11\$t		BOOLEAN #11 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$Ind12\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #12	Update when receive GOOSE message:
GIO1\$ST\$Ind12\$stVal		BOOLEAN #12 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$Ind12\$t		BOOLEAN #12 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$Ind13\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #13	Update when receive GOOSE message:
GIO1\$ST\$Ind13\$stVal		BOOLEAN #13 data type
IEC6185USRVMeas/vrting-	Meter timestamp (see note 1 below)	Update when receive GOUSE message:
GIO1\$ST\$Ind13\$t		BOOLEAN #13 data type
LECOLOSUSKVMeas/vrtinG-	(athennies)	ropulated when server is up
GIOISSTSINdI4Sq TECC1950CDUMona (mithing	(Otherwise)	Undate when reacing COOR
CTO1COUCT d14C VTC1NG-	VIICUAI INPUL: BOOLEAN data type #14	DOLLENN #14 data two
GIUISSTSINdI4SstVal	Motor timostamp (and pote 1 balant)	BUULEAN #14 data type
CTO1COUCT-d14C	Meter timestamp (see note 1 below)	DOLLENN #14 data two
GIUISSTSINGI4St	(vol) (received at least ence). 0:40	BOULLAN #14 data type
CTO1COUCKVMeas/VITING-	(athenning)	roputated when server is up
GIOI\$ST\$IndI5\$q	(otherwise)	Undate when receive COOCE measures
CTO100T0T+1150+14-1	VIEtuai input: BOOLEAN data type #15	opdate when receive GOOSE message:
GIOISSTSINGISSSTVAI	Motor timestamp (and note 1 helow)	BOOLEAN #15 data type
IEC61850SRVMeas/VICING-	Meter timestamp (see note i below)	opdate when receive GOOSE message:
GIOISSTSINGISST	0.000 (received at least ence), 0.000	BOULEAN #15 data type
CTO100005KVMeas/VICING=	(athematica)	Populated when server is up
GIOISSTSINGI65g	(otherwise)	Undate when receive COOCE measures
CTO16CESTEd166a+Wal	VIItuai Input: BOOLEAN data type #10	DOOLENN #16 data tumo
JEC61850SRVMeas/wrtinC-	Mater timestamp (see note 1 helow)	Undate when receive COOSE message.
CTO1\$ST\$Tpd16\$t	Heter timestamp (see Hote I berow)	POOLENN #16 data tumo
JEC61850SRVMeas/wrtinC-	0x00 (received at least once) · 0x40	Populated when server is up
GIO1\$ST\$Ind17\$g	(otherwise)	roparacea when berver is up
JEC61850SRVMeas/wrtinC-	Virtual Input: SPS data type #01	Undate when receive COOSE message: SPS
CTO1\$ST\$Tpd17\$stVal	viituai input. Sis data type #01	#01 data turo
IEC61850SBVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$Ind17\$t	neeer ermestamp (see note r berow)	#01 data type
IEC61850SBVMeas/vrtinG-	0x00 (received at least once): 0x40	Populated when server is up
GTO1\$ST\$Tpd18\$g	(otherwise)	roparacea men berver ib ap
IEC61850SBVMeas/vrtinG-	Virtual Input: SPS data type #02	Update when receive GOOSE message: SPS
GTO1\$ST\$Ind18\$stVal		#02 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GTO1\$ST\$Ind18\$t	······	#02 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$Ind19\$a	(otherwise)	· · · · · · · · · · · · · · · · · · ·
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #03	Update when receive GOOSE message: SPS
GI01\$ST\$Ind19\$stVal		#03 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$Ind19\$t		#03 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GI01\$ST\$Ind20\$q	(otherwise)	* *
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #04	Update when receive GOOSE message: SPS
GIO1\$ST\$Ind20\$stVal		#04 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GI01\$ST\$Ind20\$t		#04 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$Ind21\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #05	Update when receive GOOSE message: SPS
GIO1\$ST\$Ind21\$stVal		#05 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$Ind21\$t		#05 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$Ind22\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #06	Update when receive GOOSE message: SPS
GIO1\$ST\$Ind22\$stVal		#06 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GI01\$ST\$Ind22\$t		#06 data type



Goldstrand. Golds	IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up		
<pre>126.6300N/0462/VTLID= 126.6300N/0462/VTLID= 126.6300N/0462/VTLID= 101047120024</pre>	GIO1\$ST\$Ind23\$q	(otherwise)			
<pre>Nuclear Section Context C</pre>	IEC61850SRVMeas/vrting-	Virtual Input: SPS data type #0/	Update when receive GOOSE message: SPS		
CIDISEPTING231         NUMBER of the server is up           CIDISEPTING231         Number of the server is up           CIDISEPTING234         Number of the server is up           CIDISEPTING2345         Number of the server is up           CIDISEPTIN	TEC61850SBVMeas/vrtinG-	Meter timestamp (see note 1 below)	#07 data type Update when receive GOOSE message: SPS		
<pre>DiscreteSetSetWees/velumd (conserved at least once)) 0441 populated when served is up Collarding (conserved at least once)) 0441 Under when reactive GOOSE message: SPE Collarding (conserved at least once)) 0442 Under when reactive GOOSE message: SPE Collarding (conserved at least once)) 0442 Under when reactive GOOSE message: SPE Collarding (conserved at least once)) 0442 Under when reactive GOOSE message: SPE Collarding (conserved at least once)) 0442 Under when reactive GOOSE message: SPE Collarding (conserved at least once)) 0442 Under when reactive GOOSE message: SPE Collarding (conserved at least once)) 0444 Collarding (conserved at least once) 0444 Co</pre>	GIO1\$ST\$Ind23\$t	need dimestamp (bee need i seiten)	#07 data type		
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<pre>IECG18000Wees/vrinG- UCC1870104244val UCC1870004444val UCC1870044444val UCC1870044444val UCC1870044444val UCC1870044444val UCC18700444447vel UCC18700444447vel UCC1870044447vel UCC18700444447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC1870044447vel UCC187004447vel UCC187004444</pre>	GIO1\$ST\$Ind24\$q	(otherwise)			
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<pre>labs.soudwords/viller labs.soudwords/vi</pre>	GIO1\$ST\$Ind24\$stVal	Matan timestama (and mata 1 halan)	#08 data type		
Diddiside         Subdiside         Subdiside <t< td=""><td>CTO1\$ST\$Tpd24\$t</td><td>Meter timestamp (see note i below)</td><td>#08 data turo</td></t<>	CTO1\$ST\$Tpd24\$t	Meter timestamp (see note i below)	#08 data turo		
iologram       (otherwise)       Update when receive GOOSE message: SP:         iologram       (iologram       (iologram       (iologram         iologram       (iologram       (iologram       (iologram       (iologram         iologram       (iologram       (iologram <t< td=""><td>IEC61850SRVMeas/vrtinG-</td><td>0x00 (received at least once); 0x40</td><td>Populated when server is up</td></t<>	IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up		
<ul> <li>IECCESSORYMeas/vrtind- OLDER TURNEL Input: SPS data type #09</li> <li>Updata when receive GOOSE message: SPS OLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS OLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS OLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS OLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (See note 1 below)</li> <li>Updata when receive GOOSE message: SPS HOLDER TURNEL (SEE data type #12 Updata when receive GOOSE message: SPS HOLDER TURNEL (SEE data type #13 Updata when receive GOOSE message: SPS HOLDER TURNEL (SEE data type #13 Updata when receive GOOSE message: SPS HOLDER TURNEL (SEE data type #13 Updata when receive GOOSE message: SPS HOLDER TURNEL (SEE data type #13 Updata when receive GOOSE message: SPS HOLDER TURNEL (SEE data type #13 Updata when receive GOOSE message: SPS HOLDER TURNEL (SEE data type #13 Updata w</li></ul>	GI01\$ST\$Ind25\$q	(otherwise)			
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GIO1\$ST\$AnIn01\$t       BOOLEAN #01 data type         IEC61850SRVMeas/vrtinG-       0x00 (received at least once); 0x40       Populated when server is up         GIO1\$ST\$AnIn02\$q       (otherwise)       Update when receive GOOSE message:         BOOLEAN #02 data type       BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       Virtual Input: BOOLEAN data type #02       Update when receive GOOSE message:         GIO1\$ST\$AnIn02\$stVal       BOOLEAN #02 data type       BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       Meter timestamp (see note 1 below)       Update when receive GOOSE message:         GIO1\$ST\$AnIn02\$t       BOOLEAN #02 data type       BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       0x00 (received at least once); 0x40       Populated when server is up         GIO1\$ST\$AnIn03\$q       (otherwise)       BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       0x00 (received at least once); 0x40       Populated when server is up         GIO1\$ST\$AnIn03\$q       (otherwise)       Update when receive GOOSE message:         IEC61850SRVMeas/vrtinG-       Virtual Input: BOOLEAN data type #03       Update when receive GOOSE message:         GIO1\$ST\$AnIn03\$stVal       BOOLEAN #03 data type       BOOLEAN #03 data type	GIUI9ST9ANINUI9STVAL TEC61850SRVMeas/wrting-	Meter timestamp (see note 1 below)	Update when receive GOOSE message.		
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GIO1\$ST\$AnIn02\$q       (otherwise)         IEC61850SRVMeas/vrtinG-       Virtual Input: BOOLEAN data type #02       Update when receive GOOSE message: BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       Meter timestamp (see note 1 below)       Update when receive GOOSE message: BOOLEAN #02 data type         GIO1\$ST\$AnIn02\$t       BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       0x00 (received at least once); 0x40       Populated when server is up         GIO1\$ST\$AnIn03\$q       (otherwise)       IEC61850SRVMeas/vrtinG-       Virtual Input: BOOLEAN data type #03         IEC61850SRVMeas/vrtinG-       Virtual Input: BOOLEAN data type #03       Update when receive GOOSE message: BOOLEAN #03 data type	IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up		
IEC61850SRVMeas/vrtinG-       Virtual Input: BOOLEAN data type #02       Update when receive GOOSE message: BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       Meter timestamp (see note 1 below)       Update when receive GOOSE message: BOOLEAN #02 data type         GI01\$ST\$AnIn02\$t       BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       0x00 (received at least once); 0x40       Populated when server is up         GI01\$ST\$AnIn03\$q       (otherwise)       Update when receive GOOSE message: BOOLEAN #02 data type         IEC61850SRVMeas/vrtinG-       0x00 (received at least once); 0x40       Populated when server is up         GI01\$ST\$AnIn03\$q       (otherwise)       Update when receive GOOSE message: BOOLEAN #03 data type	GIO1\$ST\$AnIn02\$q	(otherwise)			
GIO1\$ST\$AnIn02\$stVal     BOOLEAN #02 data type       IEC61850SRVMeas/vrtinG-     Meter timestamp (see note 1 below)     Update when receive GOOSE message: BOOLEAN #02 data type       GIO1\$ST\$AnIn02\$t     BOOLEAN #02 data type       IEC61850SRVMeas/vrtinG-     0x00 (received at least once); 0x40     Populated when server is up       GIO1\$ST\$AnIn03\$q     (otherwise)     Update when receive GOOSE message: BOOLEAN #02 data type       IEC61850SRVMeas/vrtinG-     Virtual Input: BOOLEAN data type #03     Update when receive GOOSE message: BOOLEAN #03 data type	IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #02	Update when receive GOOSE message:		
ILECOIDSDUSKYMEds/VrtinG-     Meter timestamp (see note 1 below)     Update when receive GOOSE message: BOOLEAN #02 data type       GIO1\$ST\$AnIn02\$t     0x00 (received at least once); 0x40     Populated when server is up       GIO1\$ST\$AnIn03\$q     (otherwise)     0virtual Input: BOOLEAN data type #03     Update when receive GOOSE message: BOOLEAN #02 data type       GIO1\$ST\$AnIn03\$stVal     Virtual Input: BOOLEAN data type #03     Update when receive GOOSE message: BOOLEAN #03 data type	GIO1\$ST\$AnIn02\$stVal		BOOLEAN #02 data type		
IEC61850SRVMeas/vrtinG-     0x00 (received at least once); 0x40     Populated when server is up       IEC61850SRVMeas/vrtinG-     (otherwise)     IEC61850SRVMeas/vrtinG-       IEC61850SRVMeas/vrtinG-     Virtual Input: BOOLEAN data type #03     Update when receive GOOSE message:       GIO1\$ST\$AnIn03\$stVal     BOOLEAN #03 data type	ILCOISSUSKVMeas/vrting-	Meter timestamp (see note 1 below)	POOLEAN #02 data two		
GIO1\$ST\$AnIn03\$q     (otherwise)     Opdate when receive GOOSE message:       BIC61850SRVMeas/vrtinG-     Virtual Input: BOOLEAN data type #03     Update when receive GOOSE message:       GIO1\$ST\$AnIn03\$stVal     BOOLEAN #03 data type	IEC61850SRVMeas/vrtinG-	0x00 (received at least once): 0x40	Populated when server is up		
IEC61850SRVMeas/vrtinG- Virtual Input: BOOLEAN data type #03 Update when receive GOOSE message: GIO1\$ST\$AnIn03\$stVal BOOLEAN #03 data type	GTO1\$ST\$AnTn03\$g				
GIO1\$ST\$AnIn03\$stVal BOOLEAN #03 data type	0101401411110049	(otherwise)			
	IEC61850SRVMeas/vrtinG-	(otherwise) Virtual Input: BOOLEAN data type #03	Update when receive GOOSE message:		



IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$AnIn03\$t		BOOLEAN #03 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn04\$q	(otherwise)	
CIO16080SRVMeas/Vrting-	Virtual input: BOOLEAN data type #04	Dool Fan Hold data turns
IEC61850SRVMeas/wrting-	Meter timestamp (see note 1 below)	BOOLEAN #04 data type
GIO1\$ST\$ApIp04\$t	Heter timestamp (see Hote I below)	BOOLEAN #04 data tume
IEC61850SRVMeas/vrtinG-	0x00 (received at least once): 0x40	Populated when server is up
GI01\$ST\$AnIn05\$g	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #05	Update when receive GOOSE message:
GIO1\$ST\$AnIn05\$stVal		BOOLEAN #05 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$AnIn05\$t		BOOLEAN #05 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn06\$q	(otherwise)	Undate when receive COOCE measures
GIO1SSTSADID06SetVal	VIItual Input: BOOLEAN data type #00	BOOLEAN #06 data ture
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$AnIn06\$t		BOOLEAN #06 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn07\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #07	Update when receive GOOSE message:
GIO1\$ST\$AnIn07\$stVal		BOOLEAN #07 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIOISSTSAnIn07St	lave (received at least start)	BOULEAN #07 data type
CTO1\$ST\$ADTD085~	(otherwise)	roputated when server is up
TEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #08	Update when receive GOOSE message:
GTO1\$ST\$AnIn08\$stVal	viittaai inpat. Boolbin aata type "oo	BOOLEAN #08 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$AnIn08\$t	* * · · ·	BOOLEAN #08 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn09\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #09	Update when receive GOOSE message:
GIO1\$ST\$AnIn09\$stVal		BOOLEAN #09 data type
IEC61850SRVMeas/vrting-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
IEC61850SRVMeas/wrting-	0x00 (received at least once) · 0x40	Populated when server is up
GTO1\$ST\$AnIn10\$g	(otherwise)	roputated when berver is up
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #10	Update when receive GOOSE message:
GIO1\$ST\$AnIn10\$stVal		BOOLEAN #10 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$AnIn10\$t		BOOLEAN #10 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn11\$q	(otherwise)	Undete other manine COOCE management
CTO16CEEDpTp116ctVol	VITCUAI INPUL: BOOLEAN data type #11	DOOLEAN #11 data tumo
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message.
GIO1\$ST\$AnIn11\$t		BOOLEAN #11 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn12\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #12	Update when receive GOOSE message:
GIO1\$ST\$AnIn12\$stVal		BOOLEAN #12 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIOISSTSANINI2St TEC61850SRVMeas/wrtinC-	(veceived at losst opco) · 0v40	BUULEAN #12 data type
GT01\$ST\$AnTn13\$a	(otherwise)	robaracea when server is ab
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #13	Update when receive GOOSE message:
GIO1\$ST\$AnIn13\$stVal		BOOLEAN #13 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$AnIn13\$t		BOOLEAN #13 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn14\$q	(otherwise)	Undate when receive COOCE
CTO1\$ST\$ApTp14\$c+Vc1	VIICUAI INPUC: BOOLEAN data type #14	POOLENN #14 data ture
TEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message.
GIO1\$ST\$AnIn14\$t		BOOLEAN #14 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn15\$q	(otherwise)	-
IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #15	Update when receive GOOSE message:
GIO1\$ST\$AnIn15\$stVal		BOOLEAN #15 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GLUIŞSTŞANIN15Şt	(von (received at loast crac) . 0.40	BOULEAN #15 data type
GIO1\$ST\$AnIn16\$a	(otherwise)	robaraced when server is ub
01014014000100040	(001101 W 13C)	



IEC61850SRVMeas/vrtinG-	Virtual Input: BOOLEAN data type #16	Update when receive GOOSE message:
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message:
GIO1\$ST\$AnIn16\$t	<u>k</u> , , , , , , , , , , , , , , , , , , ,	BOOLEAN #16 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #01	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn17\$stVal		#01 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn17\$t TEC61850SBVMeas/wrtinG-	0x00 (received at least once): 0x40	#01 data type Populated when server is up
GIO1\$ST\$AnIn18\$q	(otherwise)	loparacea when berver is ap
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #02	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn18\$stVal	Motor timestamp (see note 1 below)	#02 data type
GIO1\$ST\$AnIn18\$t	Meter timestamp (see note i berow)	#02 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn19\$q	(otherwise)	Undete when wereine COOCE measures (DO
GTO1\$ST\$AnTn19\$stVal	Virtual input: SPS data type #03	#03 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn19\$t		#03 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #04	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn20\$stVal		#04 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIOI\$ST\$Anin20\$t TEC61850SRVMeas/vrtinG-	0x00 (received at least once): 0x40	#04 data type Populated when server is up
GIO1\$ST\$AnIn21\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #05	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn21\$stVal	Motor timestamp (see note 1 below)	#05 data type
GIO1\$ST\$AnIn21\$t	Meter timestamp (see note i berow)	#05 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn22\$q	(otherwise)	
IEC6185USRVMeas/vrtinG- GI01\$ST\$AnIn22\$stVal	Virtual Input: SPS data type #06	Update when receive GOOSE message: SPS
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn22\$t		#06 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #07	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn23\$stVal		#07 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn23\$t IEC61850SRVMeas/wrtinG-	0x00 (received at least once): 0x40	#07 data type Populated when server is up
GIO1\$ST\$AnIn24\$q	(otherwise)	loparacea when berver is ap
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #08	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn24\$stVal	Motor timestamp (see note 1 below)	#08 data type
GIO1\$ST\$AnIn24\$t	Meter timestamp (see note i berow)	#08 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn25\$q	(otherwise)	
GIO1\$ST\$AnIn25\$stVal	Virtual input: SPS data type #09	#09 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn25\$t		#09 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #10	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn26\$stVal		#10 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn26\$t IEC61850SBVMeas/wrtinG-	0x00 (received at least once): 0x40	#10 data type Populated when server is up
GIO1\$ST\$AnIn27\$q	(otherwise)	in the second to up
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #11	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn27\$stVal	Motor timostamp (see pote 1 below)	#11 data type
GIO1\$ST\$AnTn27\$t	Merer rimesramh (see nore i berow)	#11 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn28\$q	(otherwise)	
LEC6185USRVMeas/vrtinG-	Virtual Input: SPS data type #12	Update when receive GOOSE message: SPS
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GI01\$ST\$AnIn28\$t		#12 data type



IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn29\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #13	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn29\$stVal		#13 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn20\$t		#13 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn30\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #14	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn30\$stVal		#14 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GI01\$ST\$AnIn30\$t		#14 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn31\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #15	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn31\$stVal		#15 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn31\$t		#15 data type
IEC61850SRVMeas/vrtinG-	0x00 (received at least once); 0x40	Populated when server is up
GIO1\$ST\$AnIn32\$q	(otherwise)	
IEC61850SRVMeas/vrtinG-	Virtual Input: SPS data type #16	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn32\$stVal		#16 data type
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1 below)	Update when receive GOOSE message: SPS
GIO1\$ST\$AnIn32\$t		#16 data type
IEC61850SRVMeas/vrtinG-	0x00 (Comm runtime health); 0x40 (Comm	Populated when server is up.
GIO1\$ST\$Mod\$q	runtime not health)	
IEC61850SRVMeas/vrtinG-	1 = "ON"	Read only. Constant
GIO1\$ST\$Mod\$stVal		
IEC61850SRVMeas/vrtinG-	Meter timestamp (see note 1,2,3 below)	Populated when server is up.
GI01\$ST\$Mod\$t		

# 5.2.8: Logic Node: IEC61850SRVMEAS/GGIO1

OBJECT PATH	VALUE	COMMENT		
	GGI01			
IEC61850SRVMeas/alarmG-	0 = "STATUS-ONLY"	Read only. Constant		
GI01\$CF\$Mod\$ctlModel				
IEC61850SRVMeas/alarmGGI01\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only. Constant		
IEC61850SRVMeas/alarmG-	"1=OK, 2=WARNING, 3=ALARM"	Read only. Constant		
GI01\$DC\$Health\$d				
IEC61850SRVMeas/alarmGGI01\$DC\$Alm1\$d	"LIMIT STATE: CHANNEL 1"	Read only. Constant		
IEC61850SRVMeas/alarmGGI01\$DC\$Alm2\$d	"LIMIT STATE: CHANNEL 2"	Read only. Constant		
IEC61850SRVMeas/alarmGGI01\$DC\$Alm3\$d	"LIMIT STATE: CHANNEL 3"	Read only. Constant		
IEC61850SRVMeas/alarmGGI01\$DC\$Alm4\$d	"LIMIT STATE: CHANNEL 4"	Read only. Constant		
IEC61850SRVMeas/alarmGGI01\$DC\$Alm5\$d	"LIMIT STATE: CHANNEL 5"	Read only. Constant		
IEC61850SRVMeas/alarmGGI01\$DC\$Alm6\$d	"LIMIT STATE: CHANNEL 6"	Read only. Constant		
IEC61850SRVMeas/alarmGGI01\$DC\$Alm7\$d	"LIMIT STATE: CHANNEL 7"	Read only. Constant		
IEC61850SRVMeas/alarmGGI01\$DC\$Alm8\$d	"LIMIT STATE: CHANNEL 8"	Read only. Constant		
IEC61850SRVMeas/alarmGGI01\$DC\$Alm9\$d	"LIMIT STATE: CHANNEL 9"	Read only. Constant		
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 10"	Read only. Constant		
GIO1\$DC\$Alm10\$d				
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 11"	Read only. Constant		
GIO1\$DC\$Alm11\$d				
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 12"	Read only. Constant		
GI01\$DC\$Alm12\$d				
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 13"	Read only. Constant		
GI01\$DC\$Alm13\$d				
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 14"	Read only. Constant		
GIO1\$DC\$Alm14\$d				
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 15"	Read only. Constant		
GTO1\$DC\$A1m15\$d		-		
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 16"	Read only. Constant		
GTO1\$DC\$Alm16\$d				
TEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 17"	Read only. Constant		
GTO1SDCSAlm17Sd				
TEC61850SRVMeas/alarmG-	"LIMIT STATE, CHANNEL 18"	Read only Constant		
GTO1SDCSAlm18Sd		noda onij. oonobano		
TEC61850SRVMeas/alarmG-	"LIMIT STATE, CHANNEL 19"	Read only Constant		
CTO16DC6Alm106d	biniti offitib. official is	Read only. conseance		
TEC61850SRVMeas/alarmC-	"LIMIT STATE, CHANNEL 20"	Read only Constant		
	DINII SIAIE, CHANNEL 20	Read Only. Constant		
GIUIQUCQAIIII2UQU	"ITMIT STATE, CHANNEL 21"	Pood only Constant		
CTO1CDUSKVMeds/aldimg=	LIMII SIALE: CHANNEL ZI	Read only. Constant		
	HITME OFFER CHANNEL 22H	Deed calm Constant		
ILCOLODUSKVMeas/alarmG-	"LIMIT STATE: CHANNEL 22"	kead only. Constant		
GIO1SDCSA1m22Sd				



IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 23	Read only. Constant
GIO1\$DC\$Alm23\$d		
IEC6185USRVMeas/alarmG-	"LIMIT STATE: CHANNEL 24"	Read only. Constant
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 25"	Read only. Constant
GIO1\$DC\$Alm25\$d		
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 26"	Read only. Constant
GIO1\$DC\$Alm26\$d		
IEC6185USRVMeas/alarmg-	"LIMIT STATE: CHANNEL 2/"	Read only. Constant
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 28"	Read only. Constant
GIO1\$DC\$Alm28\$d		ak.
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 29"	Read only. Constant
GIO1\$DC\$Alm29\$d	ULTMIN ONAND, CHANNEL 200	Deed only Constant
GIO1SDCSAlm30Sd	"LIMIT STATE: CHANNEL 50"	Read only. Constant
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 21"	Read only. Constant
GIO1\$DC\$Alm31\$d		-
IEC61850SRVMeas/alarmG-	"LIMIT STATE: CHANNEL 32"	Read only. Constant
GIO1\$DC\$Alm32\$d	"OPERATING MODE"	Pond only Constant
IEC61850SRVMeas/alarmGGI01\$DC\$Mod\$d	"LOGICAL NODE NAMEPLATE"	Read only. Constant
Plt\$d		
IEC61850SRVMeas/alarmGGI01\$DC\$Nam-	Comm runtime version	Populated when server is
Plt\$swRev		up.
IEC61850SRVMeas/alarmGG101\$DC\$Nam-	"ELECTRO INDUSTRIES"	Read only. Constant
FICSVENDOL		
IEC61850SRVMeas/alarmGGIO1\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
	not health)	up.
IEC61850SRVMeas/alarmG-	1 = "ON"	Read only. Constant
GIO1\$ST\$Beh\$stVal IEC61850\$RVMeas/alarmCGIO1\$\$T\$Beh\$t	Meter timestamn (see note 1 2 3 below)	Populated when server is
	Meter timestamp (see note 1,2,5 below)	up.
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Health\$q	not health)	up.
IEC61850SRVMeas/alarmG-	1 (Comm runtime health); 2 (Comm runtime not	Populated when server is
GIO1\$ST\$Health\$stVal	health) Meter timestamp (see note 1 2 3 below)	up. Populated when server is
GTO1\$ST\$Health\$t	Meter timestamp (see note 1,2,3 below)	up.
IEC61850SRVMeas/alarmGGI01\$ST\$Alm1\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 1	Update when Limit state
GIOIŞSTŞAIMIŞSTVAI IEC61850SRVMeas/alarmGGIO1\$ST\$Alm1\$t	Meter timestamp (see note 1 below)	Changed Update when Limit state
	Meter timestamp (see note i berow)	changed
IEC61850SRVMeas/alarmGGIO1\$ST\$Alm2\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 2	Update when Limit state
GIOI\$ST\$AIm2\$stVal IEC61850SRVMeas/alarmGGIO1\$ST\$&lm2\$t	Meter timestamp (see note 1 below)	Changed Update when Limit state
		changed
IEC61850SRVMeas/alarmGGIO1\$ST\$Alm3\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 3	Update when Limit state
GIOIŞSTŞAIM3ŞSTVAI IEC61850SRVMeas/alarmGGIO1\$ST\$Alm3\$t	Meter timestamp (see note 1 below)	Changed Update when Limit state
		changed
IEC61850SRVMeas/alarmGGIO1\$ST\$Alm4\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 4	Update when Limit state
GIO1\$ST\$A1m4\$stVa1 IEC61850\$RVMeas/alarmCGIO1\$\$T\$A1m4\$t	Meter timestamn (see note 1 helow)	Changed Undate when Limit state
		changed
IEC61850SRVMeas/alarmGGIO1\$ST\$Alm5\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 5	Update when Limit state
GIOI\$ST\$AIm5\$stVal IEC61850SRVMeas/alarmGGIO1\$ST\$Alm5\$t	Meter timestamp (see note 1 below)	Changed Update when Limit state
	THE STUCCESS (SEE HOLE I DELOW)	changed
IEC61850SRVMeas/alarmGGIO1\$ST\$Alm6\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 6	Update when Limit state
GIUI\$ST\$AIM6\$stVal IEC61850SRVMeas/alarm6GT01\$ST\$%lm6\$t	Meter timestamp (see note 1 below)	unangea Undate when Limit state
TECTOSOBIAHERS/ ATALMGGTOTOSTOATM050	HELET STWESTERNED (SEE HOLE I DETOW)	changed
	1	



IEC61850SRVMeas/alarmGGIO1\$ST\$Alm7\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
IEC61850SRVMeas/alarmG-	Limit State, channel 7	Update when Limit state
GIO1\$ST\$Alm7\$stVal		changed
IEC61850SRVMeas/alarmGG101\$ST\$Alm/\$t	Meter timestamp (see note 1 below)	Update when Limit state changed
IEC61850SRVMeas/alarmGG101\$ST\$Alm8\$q	not health)	populated when server is
IEC61850SRVMeas/alarmG-	Limit State, channel 8	Update when Limit state
GIO1\$ST\$Alm8\$stVal	Matar timestamp (see note 1 helow)	changed Undate when Limit state
	Heter timestamp (see Hote I berow)	changed
IEC61850SRVMeas/alarmGGI01\$ST\$Alm9\$q	0x00 (Comm runtime health); 0x40 (Comm runtime not health)	Populated when server is
IEC61850SRVMeas/alarmG-	Limit State, channel 9	Update when Limit state
GIO1\$ST\$Alm9\$stVal	Meter timestamp (and note 1 helow)	changed
TECOTOJOSKVMERS/ ATATMGGTOT\$ST\$ATM9\$C	Meter timestamp (see note i berow)	changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
IEC61850SRVMeas/alarmG-	Limit State, channel 10	up Update when Limit state
GIO1\$ST\$Alm10\$stVal		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm11\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 11	Update when Limit state
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm11\$t	0x00 (Comm runtime health), 0x40 (Comm runtime	changed
GIO1\$ST\$Alm12\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 12	Update when Limit state
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm12\$t		changed
IEC6185USRVMeas/alarmG- GIO1\$ST\$Alm13\$a	<pre>UxUU (Comm runtime health); Ux40 (Comm runtime not health)</pre>	Populated when server is
IEC61850SRVMeas/alarmG-	Limit State, channel 13	Update when Limit state
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Changed Update when Limit state
GIO1\$ST\$Alm13\$t		changed
GIO1\$ST\$Alm14\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 14	Update when Limit state
GIO1\$ST\$Alm14\$stVal IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	changed Update when Limit state
GIO1\$ST\$Alm14\$t		changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
IEC61850SRVMeas/alarmG-	Limit State, channel 15	up Update when Limit state
GIO1\$ST\$Alm15\$stVal		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm16\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 16	Update when Limit state
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm16\$t		changed
GIO1SSTSAlm175g	not health)	Populated when server is
IEC61850SRVMeas/alarmG-	Limit State, channel 17	Update when Limit state
GIO1\$ST\$Alm17\$stVal		changed
GIO1\$ST\$Alm17\$t	Precer crimescamp (see note 1 below)	changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm18\$q	not health) Limit State channel 18	up Undate when Limit state
GIO1\$ST\$Alm18\$stVal	mine state, channet 10	changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm18\$t	Avan (Comm runtime health), Avan (Comm runtime	changed Populated when server is
GIO1\$ST\$Alm19\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 19	Update when Limit state
GIO1\$ST\$Alm19\$stVal		changed



IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm19\$t		changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GI01\$ST\$Alm20\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 20	Update when Limit state
GIO1\$ST\$Alm20\$stVal		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm20\$t		changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm21\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 21	Update when Limit state
GIO1\$ST\$Alm21\$stVal		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm21\$t		changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm22\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 22	Update when Limit state
GIO1\$ST\$A1m22\$stVa1		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$A1m22\$t		changed
IEC61850SRVMeas/alarmG-	UxUU (Comm runtime health); Ux40 (Comm runtime	Populated when server is
GIO1\$ST\$ALm23\$q	not health)	up
IECOIOJUSKVMEAS/ALARMG-	LIMIL STATE, CHANNEL 23	opdate when Limit state
GIUIŞSTŞAIM23ŞSTVAL	Motor timestamp (and note 1 heles)	Changed
IECOIGJUSKVMeas/alarmG-	Meter truestamp (see note 1 below)	opuate when Limit state
GIUIŞSTŞAIM23ŞT	0x00 (Comm runtime bealth), 0x40 (Comm runtime	Changea
CTO160USAJm246-	<pre>value (comm runtime nearth); vx40 (Comm runtime value); vx40 (Comm run</pre>	roputated when server is
GIUISSTSAIM2450	not nearth) Limit State, channel 24	up Undato whom Limit state
	HIMIE SEALE, CHAINEE 24	opuale when Limit State
GIOIŞSTŞAIM24ŞSUVAL	Mator timestamp (see note 1 below)	Undate when Limit state
CTO1COUCRYMEAS/ ATATING=	Meter trmestamp (see note i berow)	opdate when Limit State
GIOISSISAIM24SU	0x00 (Comm runtime health): 0x40 (Comm runtime	Repulated when server is
	net health)	roputated when server is
GIOIŞSTŞAIM25ŞQ	Not Nedith) Limit State, shappel 25	up Undato when Limit state
	Limit State, channel 25	changed
JEC61850SRVMeas/alarmC-	Meter timestamp (see note 1 below)	Undate when Limit state
	Meter timestamp (see note i berow)	changed
TEC61850SRVMeas/alarmG-	0x00 (Comm runtime health): 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm26\$g	not health)	up
IEC61850SBVMeas/alarmG-	Limit State, channel 26	Update when Limit state
GIO1\$ST\$Alm26\$stVal		changed
TEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GTO1\$ST\$Alm26\$t		changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GTO1\$ST\$A1m27\$g	not health)	αμ
IEC61850SRVMeas/alarmG-	Limit State, channel 27	Update when Limit state
GTO1\$ST\$A1m27\$stVa1		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm27\$t		changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm28\$g	not health)	qu
IEC61850SRVMeas/alarmG-	Limit State, channel 28	Update when Limit state
GIO1\$ST\$Alm28\$stVal		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm28\$t		changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm29\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 29	Update when Limit state
GIO1\$ST\$Alm29\$stVal		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm29\$t		changed
IEC61850SRVMeas/alarmG-	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
GIO1\$ST\$Alm30\$q	not health)	up
IEC61850SRVMeas/alarmG-	Limit State, channel 30	Update when Limit state
GIO1\$ST\$Alm30\$stVal		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GIO1\$ST\$Alm30\$t		changed
IEC6185USRVMeas/alarmG-	UXUU (Comm runtime health); UX40 (Comm runtime	Populated when server is
GIUIŞSTŞAIMJIŞq	not nealth)	up Undata ubca Tiait vivi
IECUIGJUSKVMeas/alarmG-	LIMIL SLATE, CHANNEL SI	opuate when Limit state
GIUIŞSTŞAIMJIŞSTVAL	Motor timostamp (see rate 1 helter)	Undato when Timit state
IECOLOJUSKVMEdS/ALARMUS=	recer cruescamp (see note r below)	opuate when Limit State
GIUIQSTQAIMOIQU IEC61850SRVMoos/alarmC-	Avan (Comm runtime boolth), Avan (Comm runtime	Populated when server is
CTO1¢CT¢J1m32¢c	not hoalth)	roputated whell Server 15
GTOTA919WTIII975d	not nearth)	սբ



IEC61850SRVMeas/alarmG-	Limit State, channel 32	Update when Limit state
GIO1\$ST\$Alm32\$stVal		changed
IEC61850SRVMeas/alarmG-	Meter timestamp (see note 1 below)	Update when Limit state
GI01\$ST\$Alm32\$t		changed
IEC61850SRVMeas/alarmGGI01\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when server is
	not health)	up.
IEC61850SRVMeas/alarmG-	1 = "ON"	Read only. Constant
GI01\$ST\$Mod\$stVal		
IEC61850SRVMeas/alarmGGI01\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when server is
		up.

#### 5.2.9: Logic Node: IEC61850SRVMEAS/MMXU1

OBJECT PATH	VALUE	COMMENT
TEC61950 SPUMons /	MMXUL	Road only
incorososkymeas/	0 - SIRIOS-ONLI	Read Only.
nsmmxulşCFşModşCtimodei	$P_{0,0}$	Constant Modified by
IECOIOSOSKVMEAS/IISMMKOIĢCFĢAĢPIISAĢUD	Deaubana - 100000 - 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXUl\$CF\$A\$phsA\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	U	Read only.
nsMMXUl\$CF\$A\$phsA\$rangeC\$hLim\$f		Constant
IEC6185USRVMeas/	0	Read only.
nsMMXUI\$CF\$A\$phsA\$rangeC\$ILim\$f	<u>^</u>	Constant
IEC6185USRVMeas/	0	Read only.
nsMMXUI\$CF\$A\$phsA\$rangeC\$IILim\$f	0	Constant
IECOIOJOSRVMeds/	0	Read only.
nsmmxulşCFŞAŞpnsAşrangeCşminşi		Populated when
TROCI 0500000000000000000000000000000000000		server is up
IEC61850SRVMeas/	2.1*CT_RATIO (For Class 2) / 21*CT_RATIO (for	Read only.
nsMMXU1\$CF\$A\$phsA\$rangeC\$max\$f	Class 20)	Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$A\$phsB\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsB\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsB\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsB\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsB\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsB\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	2.1*CT_RATIO (For Class 2) / 21*CT_RATIO (for	Read only.
nsMMXU1\$CF\$A\$phsB\$rangeC\$max\$f	Class 20)	Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$A\$phsC\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsC\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsC\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsC\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsC\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$phsC\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	2.1*CT_RATIO (For Class 2) / 21*CT_RATIO (for	Read only.
nsMMXU1\$CF\$A\$phsC\$rangeC\$max\$f	Class 20)	Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$A\$neut\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file



IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$neut\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$neut\$rangeC\$hLim\$f		Constant
LEC6185USRVMeas/	0	Read only.
TEC61850SRVMeas/	0	Constant Read only
neMMYIII \$CE\$% \$neut\$rangeC\$11Lim\$f	Ŭ	Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$neut\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	2.1*CT_RATIO (For Class 2) / 21*CT_RATIO (for	Read only.
nsMMXU1\$CF\$A\$neut\$rangeC\$max\$f	Class 20)	Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$A\$res\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$res\$rangeC\$hhLim\$f		Constant
LEC61850SRVMeas/	0	Read only.
nsmmaulşufşaşresşrangeCşhLimşi IEC61850SRVMeas/	0	Constant Read only
nsMMXIIISCESASresSrangeCSlLimSf	ľ	Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$res\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$A\$res\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	2.1*CT_RATIO (For Class 2) / 21*CT_RATIO (for	Read only.
nsMMXU1\$CF\$A\$res\$rangeC\$max\$f	Class 20)	Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$Hz\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$Hz\$rangeC\$hhLim\$f		Constant
rewayul College and Colling f	0	Read only.
TEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$Hz\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$Hz\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	45	Read only.
nsMMXU1\$CF\$Hz\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	69	Read only.
nsMMXU1\$CF\$Hz\$rangeC\$max\$f		Populated when
		server is up
1EC61850SRVMeas/nsMMXU1\$CF\$PhV\$phsA\$db	Deadband = $100000 = 100\%$	Modified by
		client via .cid
TEC61950 CDUMODS /		file Road only
	, v	Constant
ISTUMATIQUE PENVOPHSAORADECONNLIMOI	0	Read only
nsMMXU1\$CF\$PhV\$phsA\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PhV\$phsA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PhV\$phsA\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PhV\$phsA\$rangeC\$min\$f		Populated when
		server is up
1EC61850SRVMeas/	/2U*PT_RATIO	Read only.
nsMMXU1\$CF\$PhV\$phsA\$rangeC\$max\$f		Populated when
	$D_{22}$ = 10000 = 1000	server is up
IEC0103USKVMeas/nsMMXU1\$CE\$PhV\$phsB\$db	Deamand = $100000 = 100\%$	Modified by
		cilent via .cid
IEC61850SRVMeas/	0	IILE Read only
nsMMXIII ŚCEŚPhUśnheBśrangoCśphi imśf	ľ	Constant
υσεπινοτόςεόεταν όδυ αρόταυλος όμωρητωότ		CUIISLAIIL



IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PhV\$phsB\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PhV\$phsB\$rangeC\$1Lim\$t	0	Constant Road only
neMMYU1SCFSPhUSpheBSrangeCSllLimSf	0	Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PhV\$phsB\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	720*PT_RATIO	Read only.
nsMMXU1\$CF\$PhV\$phsB\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$PhV\$phsC\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
TEC61850SRVMeas/		file Read only
nsMMXU1SCFSPhVSphsCSrangeCShhLimSf	°	Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PhV\$phsC\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PhV\$phsC\$rangeC\$lLim\$f		Constant
	U	kead only.
ISMMAUIŞCFŞENVŞpnsCŞrangeCŞIILimŞİ IEC61850SRVMeas/	0	Constant Read only
nsMMXU1\$CF\$PhV\$phsC\$rangeC\$min\$f	Ť	Populated when
		server is up
IEC61850SRVMeas/	720*PT_RATIO	Read only.
nsMMXU1\$CF\$PhV\$phsC\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$PF\$phsA\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
	0	file Dead and
LEC6185USRVMeas/	0	Read only.
TEC61850SRVMeas/	0	Constant Read only.
nsMMXU1\$CF\$PF\$phsA\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PF\$phsA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PF\$phsA\$rangeC\$11Lim\$f	1	Constant Read anly
neMMYU11SCFSDFSphelSrangeCSminSf	-1	Read Only. Ropulated when
normative of the phonor angle of minor		server is up
IEC61850SRVMeas/	1	Read only.
nsMMXU1\$CF\$PF\$phsA\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$PF\$phsB\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
TEO (10500DVM (		file
IEC6185USRVMeas/	U	Kead only.
IISIMIAUIƏCEƏFEƏPNSBƏRANGECƏNNLIMƏT IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PF\$phsB\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PF\$phsB\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PF\$phsB\$rangeC\$llLim\$f	1	Constant
LEC6185USRVMeas/	-1	kead only.
nsmmxUl\$CE\$PE\$phsB\$rangeC\$min\$t		ropulated when
IEC61850SRVMeas/	1	Read only.
nsMMXU1\$CF\$PF\$phsB\$rangeC\$max\$f	-	Populated when
· · · · · · · · · · · · · · · · · · ·		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$PF\$phsC\$db	Deadband = 100000 = 100%	Modified by
-		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PF\$phsC\$rangeC\$hhLim\$f		Constant
LEC6185USRVMeas/	U	kead only.
nsmmxulşCFŞFFşphsCŞrangeCŞhLimŞİ		constant



IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PF\$phsC\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PF\$phsC\$rangeC\$llLim\$f	н	Constant
LEC6185USRVMeas/	-1	Read only.
NSMMX01\$CF\$PF\$pnsC\$rangeC\$min\$1		Populated when
TEC61850SRVMeas/	1	Server 15 up Read only
neMMYIII SCESPESpheCSrangeCSmaySf	±	Read Only. Populated when
IISHINOIQUI QI I QDIISCQI AIIGECQIIIAXQI		sorvor is up
TEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
nsMMXU1\$CF\$PPV\$phsAB\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsAB\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsAB\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsAB\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsAB\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsAB\$rangeC\$min\$f		Populated when
TEC61950CDUMODS/	720*07 03770	server is up
TEC61850SKVMeas/	720^PT_RATIO	Read only.
nsmmxulşCFŞPPVşpnsABşrangeCşmaxşı		Populated when
TEC61950SDVMoos/	$P_{0,0} = 100000 - 100\%$	server is up
newwyll SCESEDUSebaDCSdb	Deadband - 100000 - 100%	Modified by
NSMMX01\$CF\$PPV\$phsBC\$ab		cilent via .cid
TEC61850SRVMeas/	0	Ille Read only
nsMMXIII SCESPEVSphsBCSrangeCShhLimSf		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsBC\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsBC\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsBC\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsBC\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	720*PT_RATIO	Read only.
nsMMXU1\$CF\$PPV\$phsBC\$rangeC\$max\$f		Populated when
TECC1950CDIMODO/	$P_{0,0}$ = 100000 = 100%	server is up
	Deadballd - 100000 - 100%	Modified by
nsmmxulşCFŞPPVşpnsCAşab		client via .cid
TEC61850SRVMeas/	0	IIIe Read only
nsMMXU1SCFSPPVSnbsCASrangeCShbLimSf		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsCA\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsCA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsCA\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$PPV\$phsCA\$rangeC\$min\$f		Populated when
		server is up
IEC6185USRVMeas/	720*PT_RATIO	Read only.
nsmmkulşCFşPPvşpnsCAşrangeCşmaxŞî		ropulated when
TEC61850SRVMeas/nsMMYU1SCFSTotPFSdb	Deadband = 100000 = 100%	Server 15 up Modified by
12010000KVH685/ N3MHK019CF910CFF90D		client wis aid
		file
TEC61850SBVMeas/	0	Read only
nsMMXII1SCESTotPESrangeCShbLimSf		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotPF\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotPF\$rangeC\$lLim\$f		Constant



IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotPF\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	-1	Read only.
nsMMXU1\$CF\$TotPF\$rangeC\$min\$f		Populated when
		server is up
TEC61850SRVMeas/	1	Read only.
noMMVIII & CESECT DES non co CSmou S f		Depulated when
nsmmxulscrstotPrstangecsmaxsi		Populated when
		server is up
IEC61850SRVMeas/nsMMX01\$CF\$TotVA\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotVA\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotVA\$rangeC\$hLim\$f		Constant
TEC61850SRVMeas/	0	Read only.
ngMMYII1\$CE\$EqtVA\$rangoC\$llim\$f		Constant
TEC61250CRVMoce/	0	Pood only
	0	Read only.
nsMMXUIŞCFŞTOTVAşrangeCşIILimşi	202(0+00 D0 D0000	Constant
IEC61850SRVMeas/	-32768^CT_PT_RATIO	Read only.
nsMMXU1\$CF\$TotVA\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	32768*CT_PT_RATIO	Read only.
nsMMXU1\$CF\$TotVA\$rangeC\$max\$f		Populated when
~		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$TotVAr\$db	Deadband = 100000 = 100%	Modified by
		aliont with aid
		citent via .ciu
		file
IEC6185USRVMeas/	0	Read only.
nsMMXU1\$CF\$TotVAr\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotVAr\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotVAr\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotVAr\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	-32768*CT PT RATIO	Read only.
nsMMXU1SCFSTotVArSrangeCSminSf		Populated when
		sorvor is up
TEC61950SBVMons/	32768*CT DT DATTO	Bood only
	52708°C1_F1_KAI10	Read Only.
nsMMXUI\$CF\$TotVAr\$rangeC\$max\$i		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$TotW\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$TotW\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXII1SCESTotWSrangeCSbLimSf		Constant
TEC61850SRVMeas/	0	Read only
neMMYIIISCESTOTWSzangoOSlitiméf		Constant
TEC61850SRVMeas/	0	Read only
	Ť	Constant
ISPMAULSCFSTOTWSTangeCSILLimSt	22760+00 00 03070	Constant Read only
ILCOIOJUSKVMeas/	-32/00°CT_PT_RATIO	Read only.
nsMMXU1\$CF\$TotW\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	32768*CT_PT_RATIO	Read only.
nsMMXU1\$CF\$TotW\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$VA\$phsA\$db	Deadband = 100000 = 100%	Modified by
		client via cid
		filo
TEC61850SBVMeas /	0	Pead only
	v	Reau UILY.
nsmmxUl\$CF\$VA\$phsA\$rangeC\$hhLim\$f		Constant
IECOIVOUSKVMeas/		κeaα on⊥y.
nsMMXUl\$CF\$VA\$phsA\$rangeC\$hLim\$f		Constant
nsMMXUl\$CF\$VA\$phsA\$rangeC\$hLim\$f IEC61850SRVMeas/	0	Constant Read only.
nsMMXUl\$CF\$VA\$phsA\$rangeC\$hLim\$f IEC61850SRVMeas/ nsMMXUl\$CF\$VA\$phsA\$rangeC\$lLim\$f	0	Constant Read only. Constant
nsMMXUl\$CF\$VA\$phsA\$rangeC\$hLim\$f IEC61850SRVMeas/ nsMMXUl\$CF\$VA\$phsA\$rangeC\$lLim\$f IEC61850SRVMeas/	0	Constant Read only. Constant Read only.
nsMMXU1\$CF\$VA\$phsA\$rangeC\$hLim\$f IEC61850SRVMeas/ nsMMXU1\$CF\$VA\$phsA\$rangeC\$1Lim\$f IEC61850SRVMeas/ nsMMXU1\$CF\$VA\$phsA\$rangeC\$11Lim\$f		Constant Read only. Constant Read only. Constant



IEC61850SRVMeas/	-32768*CT PT RATIO	Read only.
nsMMXU1\$CF\$VA\$phsA\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	32768*CT PT RATIO	Read only.
nsMMXII1SCFSVASnbsASrangeCSmaxSf		Populated when
nonmoreerevnephonerangeeemaker		correct is up
TEC61950SBUMODS/DSMMYU1SCESUDSDBSCdb	Poodband = 100000 = 100%	Modified by
TEC010303KVMeas/IISMMA019CF9VA9pIISB90D	Deadband - 100000 - 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VA\$phsB\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VA\$phsB\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VA\$phsB\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VA\$phsB\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	-32768*CT PT RATIO	Read only.
nsMMXII1SCFSVASphsBSrangeCSminSf		Populated when
Instanded of the phase of anged of the t		roputated when
	202(0+0m Dm D3mT0	Server 1s up
	J2/00 CI_FI_KAIIU	Read Only.
nsmmxUl\$CF\$VA\$phsB\$rangeC\$max\$1		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$VA\$phsC\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VA\$phsC\$rangeC\$hhLim\$f		Constant
TEC61850SRVMeas/	0	Bead only.
		Constant
TEC61850SRVMeas/	0	Read only
	0	Read Only.
nsMMXUIŞCFŞVAŞpnsCşrangeCŞILIMŞI		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VA\$phsC\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	-32768*CT_PT_RATIO	Read only.
nsMMXU1\$CF\$VA\$phsC\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	32768*CT_PT_RATIO	Read only.
nsMMXU1\$CF\$VA\$phsC\$rangeC\$max\$f		Populated when
		server is up
TEC61850SBVMeas/nsMMXU1\$CE\$VAr\$pbsA\$db	Deadband = 100000 = 100%	Modified by
	Beaubana 100000 1000	induitied by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VAr\$phsA\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VAr\$phsA\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VAr\$phsA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VAr\$phsA\$rangeC\$llLim\$f		Constant.
IEC61850SRVMeas/	-32768*CT PT RATIO	Read only.
nsMMXIII SCESVArSphsAsrangeCSminSf		Populated when
uprenotion dat dhipud tandecommid		roputaceu Wileli
TEC61950 SPUMODS /	20769*00 00 03010	Bood only
Incologuary terms to a second terms terms to a second terms	J2/UO"CI_FI_KAIIU	Reau OILY.
nsMMXU1\$CF\$VAr\$phsA\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$VAr\$phsB\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1SCFSVArSphsBSrangeCShbLimSf		Constant
TEC61850SRVMeas/	0	Read only
	-	Constant
TEC61950 CDVMoos/	0	Pood only
	v	Read OILY.
nsrmxulşüfşvArşpnsBşrangeüşlLimşt		Constant
ILCOI0JUSKVMedS/	v	Read only.
nsMMXU1\$CF\$VAr\$phsB\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	-32/68*CT_PT_RATIO	Read only.
nsMMXU1\$CF\$VAr\$phsB\$rangeC\$min\$f		Populated when
		server is up

IEC61850SRVMeas/	32768*CT PT RATIO	Read only.
nsMMXU1SCFSVArSphsBSrangeCSmaxSf		Populated when
noninio14014 vii14pii0241aiigeotmaiit		sorvor is up
TEC61850SRVMeas/nsMMXU1\$CE\$V&r\$pbsC\$db	Deadband = 100000 = 100%	Modified by
	beaubana 100000 1000	alient win hid
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VAr\$phsC\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VAr\$phsC\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VAr\$phsC\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$VAr\$phsC\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	-32768*CT_PT_RATIO	Read only.
nsMMXU1\$CF\$VAr\$phsC\$rangeC\$min\$f		Populated when
× •		server is up
TEC61850SRVMeas/	32768*CT PT BATTO	Read only.
neMMYII1SCESUArSpheCSrangeCSmaySf		Populated when
IISPIIKOT VCF V VAT V plisc V talige c vilax VI		roputaced when
	Deedbeed - 100000 - 100%	server 1s up
IEC010305KVMeas/IISMMA019CF9W9pIISA9db	Deadballd - 100000 - 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsA\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsA\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsA\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	-32768*CT PT RATIO	Read only.
nsMMXU1SCESWSphsASrangeCSminSf		Populated when
normoreterenephonerangeeeminer		
TEC61850SRVMore/	32769*07 07 03/070	Bood only
IECOIOJOSKVMeas/	52700°C1_F1_KAT10	Read Only.
nsMMXU1\$CF\$W\$phsA\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$W\$phsB\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsB\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsB\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsB\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1SCFSWSphsBSrangeCS11LimSf		Constant
IEC61850SRVMeas/	-32768*CT PT RATIO	Read only.
neMMYIII \$CE\$W\$nheB\$rangoC\$min\$f		Populated when
ποιατόςτόςτόμοροςταμβερόμητιότ		roputated when
TEC61950CDUMODS/	32769*00 00 03070	Server 1s up
TECOTOJUSKVMEdS/	J2/00"CI_FI_KAIIO	Read Only.
nsMMXU1\$CF\$W\$phsB\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/nsMMXU1\$CF\$W\$phsC\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsC\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1\$CF\$W\$phsC\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
nsMMXU1SCFSWSphsCSrangeCSlLimSf		Constant
IEC61850SRVMeas/	0	Read only.
noMMVIII \$CE\$W\$nbaC\$noncoC\$111 im\$f		Constant
TEC61850SRVMaae/	-32768*CT DT PATTO	CONSTANT Read only
	SZ/00 CI_LI_MAILO	Read OILY.
nsmmxulşCFşwşphsCşrangeCşminşf		Populated when
		server is up
IEC61850SRVMeas/	32768*CT_PT_RATIO	Read only.
nsMMXU1\$CF\$W\$phsC\$rangeC\$max\$f		Populated when
		server is up

IEC61850SRVMeas/nsMMXU1\$DC\$Mod\$d	"OPERATING MODE"	Read only.
IEC61850SBVMeas/nsMMVII1SDCSBebSd	"OPERATING MODE BEHAUTOR"	Constant Read only
Theorogona and the state of the	OTENATING MODE DEMAVIOR	Constant
IEC61850SRVMeas/nsMMXU1\$DC\$Health\$d	"1=OK, 2=WARNING, 3=ALARM"	Read only.
		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
nsMMXU1\$DC\$NamPlt\$vendor	Comm runtimo vorsion	Constant Road only
nsMMXII1SDCSNamP1+SswRev	Commi Fullerine Version	Constant
IEC61850SRVMeas/nsMMXU1\$DC\$NamPlt\$d	"LOGICAL NODE NAMEPLATE"	Read only.
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$PhV\$phsA\$d	"PHASE A-N VOLTAGE"	Read only.
TEC61950 CDVMong/ngMMVIII CDCCDbVCpbcPcd	UDUACE D-N VOITACE!	Constant Road only
	TIRSE D'N VOLTAGE	Constant
IEC61850SRVMeas/nsMMXU1\$DC\$PhV\$phsC\$d	"PHASE C-N VOLTAGE"	Read only.
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$A\$phsA\$d	"PHASE A CURRENT"	Read only.
IEC61850SRVMeas/nsMMYII1SDCSASnhsBSd	"DHASE B CHEDENT"	Constant Read only
	THASE D CORRENT	Constant
IEC61850SRVMeas/nsMMXU1\$DC\$A\$phsC\$d	"PHASE C CURRENT"	Read only.
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$A\$neut\$d	"MEASURED NEUTRAL CURRENT"	Read only.
IEC61850SRVMeas/nsMMXII1SDCSASresSd	"CALCULATED NEUTRAL CURRENT"	Constant Read only
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$PPV\$phsAB\$d	"PHASE A-B Voltage"	Read only.
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$PPV\$phsBC\$d	"PHASE B-C Voltage"	Read only.
IEC61850SRVMeas/nsMMXII1SDCSPRVSnbsCaSd	"PHASE C-A Voltage"	Constant Read only
	TIMOL C IN VOICAGE	Constant
IEC61850SRVMeas/nsMMXU1\$DC\$VA\$phsA\$d	"PHASE A ACTIVE POWER"	Read only.
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$VA\$phsB\$d	"PHASE B ACTIVE POWER"	Read only.
TEC61850SRVMeas/nsMMXU1\$DC\$VA\$phsC\$d	"PHASE C ACTIVE POWER"	Constant Read only.
1200100001(11000) 101121014204 (114p10044		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$TotVA\$d	"PHASE TOTAL ACTIVE POWER"	Read only.
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$VAr\$phsA\$d	"PHASE A REACTIVE POWER"	Read only.
IEC61850SRVMeas/nsMMXU1\$DC\$VAr\$phsB\$d	"PHASE B REACTIVE POWER"	Read only.
· · · · · · · · · · · · · · · · · · ·		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$VAr\$phsC\$d	"PHASE C REACTIVE POWER"	Read only.
		Constant
THCOTOJOSKVMEAS/HSMMKUI9DC9TOUVAĽ\$Q	FRASE IVIAL REACTIVE POWER"	Constant
IEC61850SRVMeas/nsMMXU1\$DC\$W\$phsA\$d	"PHASE A REAL POWER"	Read only.
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$W\$phsB\$d	"PHASE B REAL POWER"	Read only.
TEC61850SDUMpag/ngMMVII1SDCSWSphaced	"DHASE C DEAL DOWED"	Constant Read only
тесторовкинско, поникоторсомобизеод	TIMOE C NEAR LOWER	Constant
IEC61850SRVMeas/nsMMXU1\$DC\$TotW\$d	"PHASE TOTAL REAL POWER"	Read only.
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$Hz\$d	"FREQUENCY"	Read only.
TEC61850SRVMeas/nsMMXU1\$DC\$PF\$phsa\$d	"PHASE A POWER FACTOR"	Constant Read only
		Constant
IEC61850SRVMeas/nsMMXU1\$DC\$PF\$phsB\$d	"PHASE B POWER FACTOR"	Read only.
		Constant
IEC6185USRVMeas/nsMMXU1\$DC\$PF\$phsC\$d	"PHASE C POWER FACTOR"	Read only.
IEC61850SRVMeas/nsMMXU1\$DC\$TotPF\$d	"TOTAL POWER FACTOR"	Read only.
		Constant



IEC61850SRVMeas/	One seconds Phase A Current: InstMag	Update at least
nsMMXU1\$MX\$A\$phsA\$instCVal\$mag\$f		every second
neMMYII1 ŚMYŚA Śphera Ścila l Śmarcś f	one seconds Phase A current: Mag	InstMag out of
IISMMADI ŞMAŞAŞ DIISAŞ CVALŞMAĞŞI		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$A\$phsA\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
		runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$A\$phsA\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Phase B Current: InstMag	Update at least
TEC61850SRVMeas/	One seconds Phase B Current: Mag	every second Update when
nsMMXU1\$MX\$A\$phsB\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$A\$phsB\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
		runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$A\$phsB\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
IEC61850SRVMeas/	One seconds Phase C Current, InstMag	Change Undate at least
nsMMXU1\$MX\$A\$phsC\$instCVal\$mag\$f	one seconds mase e current. Instmay	every second
IEC61850SRVMeas/	One seconds Phase C Current: Mag	Update when
nsMMXU1\$MX\$A\$phsC\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$A\$phsC\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
		runtime health
		state change
IEC61850SRVMeas/nsMMXUI\$MX\$A\$phsC\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-h
IEC61850SRVMeas/	One seconds Measured Neutral Current: InstMag	Update at least
nsMMXU1\$MX\$A\$neut\$instCVal\$mag\$f		every second
IEC61850SRVMeas/	One seconds Measured Neutral Current: Mag	Update when
nsMMXU1\$MX\$A\$neut\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMX01\$MX\$A\$neut\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSPI
		runtime health
TEC61850SRVMeas/nsMMXU1\$MX\$A\$neut\$t	Meter timestamp (see note 1 below)	State change Update either
		"Mag" or "g" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Calculated Neutral Current: InstMag	Update at least
nsMMXU1\$MX\$A\$res\$instCVa1\$mag\$f		every second
IEC61850SRVMeas/	One seconds Calculated Neutral Current: Mag	Update when
nsMMXU1\$MX\$A\$res\$cVal\$mag\$f		InstMag out of
TEC 61850SRVMeas/nsMMYU1\$MY\$A\$rec\$~	0x00 (DSP1 runtime health) · 0x40 (otherwise)	deadband Undate if DSP1
TTO TO SOUTHERS, HOLENOI AUVAATESAd	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$A\$res\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Frequency: InstMag	Update at least
nsMMXUl\$MX\$Hz\$instMag\$mag\$f	One seconds Frequency: Mag	every second
TEGITOIONALIGUS/ HELENOTÁLIVÁUSÁNGÁT	one seconds rrequency. May	InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$Hz\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
-		runtime health
		state change



IEC61850SRVMeas/nsMMXU1\$MX\$Hz\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "g"
		change
TEC61850SRVMeas/	One seconds Phase A Power Factor: InstMag	Update at least
ncMMYU11\$MY\$PE\$phcN\$inctCVal\$mag\$f	one becomes indee in react recourt, includy	overy second
TEC61850SRVMeas/	One seconds Phase & Power Factor: Mag	Undate when
	one seconds indse a rower ractor. May	Track Withen
nsmmxulşmxşPFşpnsAşcvalşmagşı		InstMag out of
		deadband
IEC61850SRVMeas/nsMMX01\$MX\$PF\$pnsA\$q	0x00 (DSP1 runtime nealth and WYE hookup); 0x40	Update if DSPI
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$PF\$phsA\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
TEC61850SRVMeas/	One seconds Phase B Power Factor: InstMag	Update at least
neMMYII1ŚMYŚPEŚnheBśinetCValśmacóf		every second
TEC61850SRVMeas/	One seconds Phase B Power Factor: Mag	Update when
	one secondo indoo i iover raccor, nag	
IISMMAOI\$MA\$PE\$pIISB\$CVal\$mag\$1		INSCMAG OUT OF
		deadband
IEC61850SRVMeas/nsMMX01\$MX\$PF\$pnsB\$q	0x00 (DSP1 runtime nealth and WYE hookup); 0x40	Update if DSPI
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$PF\$phsB\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
TEC61850SRVMeas/	One seconds Phase C Power Factor: InstMag	Undate at least
n = Nevul (NVCDECab = CC in a + CUa ) (ma = CC	one seconds indse e rower ractor. instrag	opdate at reast
TEC61950SPVMoos/	One seconds Phase C Pewer Factor: Mag	Every second
Incolosioskymeas/	one seconds rhase c rower ractor. May	
nsMMXUI\$MX\$PF\$phsC\$cVal\$mag\$t		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$PF\$phsC\$q	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update if DSP1
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$PF\$phsC\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
TEC61850SRVMeas/	One seconds Phase A-N Voltage: InstMag	Undate at least
noMMYU12MY2DbW2pbu2pba2SinatCWa12mag2f	one beconds indbe in a voicage. Insting	oparte ac rease
TEC61850SRVMeas/	One seconds Phase A-N Voltage: Mag	Undate when
Incolosioskymeas/	one seconds rhase A-N voitage. Mag	
nsMMXUI\$MX\$PhV\$phsA\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$PhV\$phsA\$q	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update if DSP1
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$PhV\$phsA\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
TEC61850SBVMeas/	One seconds Phase B-N Voltage: InstMag	Update at least
neMMYIII ŚMYŚDbWŚDbePśinetCWolśmacif		-reard second
TEC61850SRVMeas/	One seconds Phase B-N Voltage: Mag	Undate when
	one beconds finabe B in vortage. hag	
usumuvitšiuvšeuvšbuspšcvatšwadši		Instrag out OI
		deadband
IECOIOSKVMeas/nsMMXUI\$MX\$PhV\$phsB\$q	UXUU (USPI runtime nealth and WYE hookup); 0x40	update if DSPI
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$PhV\$phsB\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
TEC61850SBVMeas/	One seconds Phase C-N Voltage: InstMag	Update at least
neMMYIII ŚMYŚ Phłyś pharch i natrowal śwaróć	and secondo finabe of a vortage. finderag	operate ac rease
TEC61850SRVMeas/	One seconds Phase C-N Voltage: Mag	Undate when
	and Secondo Finabe C in Vortuge. May	TratMan
nsmmxulşmxşPnvşpnsCŞcValşmagşi		instMag out of
		deadband



IEC61850SRVMeas/nsMMXU1\$MX\$PhV\$phsC\$q	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update if DSP1
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$PhV\$phsC\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Phase A-B Voltage: InstMag	Update at least
nsMMXU1\$MX\$PPV\$phsAB\$instCVal\$mag\$f		every second
IEC61850SRVMeas/	One seconds Phase A-B Voltage: Mag	Update when
nsMMXU1\$MX\$PPV\$phsAB\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$PPV\$phsAB\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
		runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$PPV\$phsAB\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-ph
		change
IEC61850SRVMeas/	One seconds Phase B-C Voltage: InstMag	Update at least
nsMMXU1\$MX\$PPV\$phsBC\$instCVal\$mag\$f	One seconds Phase P. C. Veltaget Mar	every second
	one seconds rhase B-C voltage: Mag	TratMag cut of
nammyorswyska,shusecscoalswadst		Instmag out of
	0x00 (DCD1 runtime health), 0x40 (atherwise)	deadband Updato if DSD1
TECOTODORAMGAS/USHMYOTSMYSELASDUSRCSd	oxoo (bori functime meatch); 0x40 (otherwise)	opuale II DSPI
		runtime nealth
TEC61950SDVMons /nsMMYU1SMVSDDVSphsDCS+	Motor timestamp (see note 1 below)	state change
IEC010505KVMed5/IISMMX019MX9PPV9pIISBC9C	Meter timestamp (see note i below)	Ware erther
		Mag or q irom
		whatever ph-ph
TEC61950 SDVMODS /	One seconds Phase C-A Voltage: InstMag	change Updato at loast
neMMYIII SMYSPDUSpheCASingtoWal Smagsf	one seconds mase C-A voitage. Instmag	opuale at least
TEC61850SRVMeas/	One seconds Phase C-A Voltage: Mag	Update when
nsMMXU1\$MX\$PPV\$phsCA\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$PPV\$phsCA\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
		runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$PPV\$phsCA\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-ph
		change
IEC61850SRVMeas/	One seconds Total Power Factor: InstMag	Update at least
nsMMXU1\$MX\$TotPF\$instMag\$mag\$f		every second
IEC61850SRVMeas/nsMMXU1\$MX\$TotPF\$ma\$f	One seconds Total Power Factor: Mag	Update when
		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$TotPF\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
		runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$TotPF\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q"
		change
IEC6185USRVMeas/	One seconds Total Active Power: InstMag	update at least
nsmmxUl\$MX\$TotVA\$instMag\$mag\$f	One seconds Total Notivo Power, Mar	every second
THE OT O DO RAME OF A HOLMAN AND A MARKATO CANA SUID \$ 1	one seconds iocal Active rower: May	TratMag out of
		doodboord
TEC61850SRVMeas/nsMMXII1SMXSTotVASc	0x00 (DSP1 runtime health) · 0x40 (otherwise)	Update if DSP1
	(Dell randing hearen), 0440 (Otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$TotVA\$t	Meter timestamp (see note 1 below)	Update either
	The stand of the second second second	"Mag" or "g"
		change
IEC61850SRVMeas/	One seconds Total Reactive Power: InstMag	Update at least
nsMMXU1\$MX\$TotVAr\$instMag\$mag\$f	internet internet. Includy	every second
IEC61850SRVMeas/nsMMXU1\$MX\$TotVAr\$ma\$f	One seconds Total Active Power: Mag	Update when
	-	InstMag out of
		deadband
1		

IEC61850SRVMeas/nsMMXU1\$MX\$TotVAr\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
		runtime health
		state change
TEC61850SRVMeas/nsMMXU1\$MX\$TotVAr\$t	Meter timestamp (see note 1 below)	Update either
	······································	"Mag" or "g"
		Mag or q
TROC10500000000000000000000000000000000000		change
IEC61850SRVMeas/	One seconds Total Real Power: InstMag	Update at least
nsMMXU1\$MX\$TotW\$instMag\$mag\$f		every second
IEC61850SRVMeas/nsMMXU1\$MX\$TotW\$ma\$f	One seconds Total Real Power: Mag	Update when
		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$TotW\$q	0x00 (DSP1 runtime health); 0x40 (otherwise)	Update if DSP1
		runtime health
		state change
TEC61850SBVMeas/nsMMXU1\$MX\$TotW\$t	Mater timestamp (see note 1 helow)	Undate either
1E010505((Weas/HSPENO10PM010CW0C	Meter timestamp (see note i berow)	
		"Mag" or "q"
		change
IEC61850SRVMeas/	One seconds Phase A Active Power: InstMag	Update at least
nsMMXU1\$MX\$VA\$phsA\$instCVal\$mag\$f		every second
IEC61850SRVMeas/	One seconds Phase A Active Power: Mag	Update when
nsMMXU1\$MX\$VA\$phsA\$cVal\$mag\$f		InstMag out of
-		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$VA\$phsA\$g	0x00 (DSP1 runtime health and WYE hookup): 0x40	Update if DSP1
······································	(otherwise)	runtime health
	(0 CHCT 4 T 2 C)	I difficine fleat th
	Matan timatana (ara nata 1 hata)	state change
IEC61850SRVMeas/nsMMX01\$MX\$VA\$phsA\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Phase B Active Power: InstMag	Update at least
nsMMXU1SMXSVASnhsBSinstCValSmagSf		every second
TEC61850SRVMeas/	One seconds Phase B Active Power Mag	Update when
noMMYIII (MY SVA SphoD Sovial Smarsh	one become inabe b neerve rewert may	Thet Mag out of
IISMMX019MX9VA9DIISB9CVA19IIIag91		INSEMAG OUL OI
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$VA\$phsB\$q	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update in changes
	(otherwise)	on DSP1 runtime
		health state
IEC61850SRVMeas/nsMMXU1\$MX\$VA\$phsB\$t	Meter timestamp (see note 1 below)	Update either
		deadband or
		quality from
		quartey from
		whatever phase
		change
IEC61850SRVMeas/	One seconds Phase C Active Power: InstMag	Update at least
nsMMXU1\$MX\$VA\$phsC\$instCVal\$mag\$f		every second
IEC61850SRVMeas/	One seconds Phase C Active Power: Mag	Update when
nsMMXU1\$MX\$VA\$phsC\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$VA\$phsC\$g	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update if DSP1
	(otherwise)	runtime health
	(00001#100/	stato share
	Motor timestamp (see note 1 below)	State change
TECOTODORAMERS/HEMMADISMYSASDUSCSC	Merer crumesramb (see nore r berow)	opuale etcher
		"Mag" or "q" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Phase A Reactive Power: InstMag	Update at least
nsMMXU1\$MX\$VAr\$phsA\$instCVal\$mag\$f		every second
IEC61850SRVMeas/	One seconds Phase A Reactive Power: Mag	Update when
nsMMXU1\$MX\$VAr\$phsA\$cVal\$mag\$f		InstMag out of
		doodbood
TEC61950CDUMODO(normalized) and the second	0x00 (DSD1 runtime bealth and MVE beakup) - 0-40	Update if DCD1
THEOTODOBKAMESS/HEMMAOTSMYSAALSbURDSd	(1) (DSFI FUNCTINE NEATON AND WIE NOOKUP); 0X40	opuace II DSPI
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$VAr\$phsA\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
TEC61850SRUMeas/	One seconds Phase B Reactive Power, InstMag	Undate at loost
IncoroJUSKVMeds/	one seconds rhase b Reactive rower: instMag	opuare at least
nsMMXU1\$MX\$VAr\$phsB\$instCVal\$mag\$f		every second



IEC61850SRVMeas/	One seconds Phase B Reactive Power: Mag	Update when
nsMMXU1\$MX\$VAr\$phsB\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$VAr\$phsB\$q	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update if DSP1
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$VAr\$phsB\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Phase C Reactive Power: InstMag	Update at least
nsMMXU1\$MX\$VAr\$phsC\$instCVal\$mag\$f		every second
IEC61850SRVMeas/	One seconds Phase C Reactive Power: Mag	Update when
nsMMXU1\$MX\$VAr\$phsC\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$VAr\$phsC\$q	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update if DSP1
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$VAr\$phsC\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Phase A Real Power: InstMag	Update at least
nsMMXU1\$MX\$W\$phsA\$instCVal\$mag\$f		every second
IEC61850SRVMeas/	One seconds Phase A Real Power: Mag	Update when
nsMMXU1\$MX\$W\$phsA\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$W\$phsA\$q	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update if DSP1
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$W\$phsA\$t	Meter timestamp (see note 1 below)	Update either
		"Mag" or "q" from
		whatever ph-n
		change
IEC61850SRVMeas/	One seconds Phase B Real Power: InstMag	Update at least
nsMMXU1\$MX\$W\$phsB\$instCVa1\$mag\$f	One seconda Dhase P. Deal Devery Mag	every second
newwyuli śwyświego policie w zaś f	One seconds mase & Real rower: Mag	TratMag out of
IISMMYOI3MY3M3DIISP3CAAT3WAG3I		doodbood
TEC61850SRVMeas/psMMXU1\$MX\$W\$pbsB\$g	$0 \times 00$ (DSP1 runtime health and WYE bookup) $\cdot 0 \times 40$	Update if DSP1
12001000010110d0/ nonmortinitint ntproptq	(otherwise)	runtime health
	(001101#150)	state change
TEC61850SRVMeas/nsMMXU1\$MX\$W\$phsB\$t	Meter timestamp (see note 1 below)	Undate either
1200100001011000, 11012110141114 (14)210240	10001 01.0000.p (000 1000 1 2010.)	"Mag" or "g" from
		whatowar ph-p
		whatever ph-h
TEC61850SBVMeas/	One seconds Phase C Real Power: InstMag	Update at least
nsMMXU1\$MX\$W\$phsC\$ipstCVal\$mag\$f		every second
IEC61850SRVMeas/	One seconds Phase C Real Power: Mag	Update when
nsMMXU1\$MX\$W\$phsC\$cVal\$mag\$f		- InstMag out of
		deadband
IEC61850SRVMeas/nsMMXU1\$MX\$W\$phsC\$q	0x00 (DSP1 runtime health and WYE hookup); 0x40	Update if DSP1
	(otherwise)	runtime health
		state change
IEC61850SRVMeas/nsMMXU1\$MX\$W\$phsC\$t	Meter timestamp (see note 1 below)	Update either
-		"Mag" or "q" from
		whatever ph-n
		change
	L	
	0x00 (Comm runtime health), 0x40 (Comm runtime	Undato when
TEC618505RVMeas/ IISMMX01\$51\$Ben\$q	0x00 (Comm runtime nearch); 0x40 (Comm runtime	opdate when
TEC 61850 SRVMeas / nsMMYII1 SST Spab Satural	not nealth) 1 = "ON"	Server 15 up Read only
TECOTOJOSKVMCAS/ IISMMKOTOJSTOBEIIOSCVAT	1 - ON	Constant
TEC61850SRVMeas/nsMMXU1\$ST\$Beb\$t	Meter timestamp (see note 1.2.3 below)	Update when
		server is up
IEC61850SRVMeas/nsMMXU1\$ST\$Health\$a	0x00 (Comm runtime health); 0x40 (Comm runtime	Update when
	not health)	server is up
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Update when
nsMMXU1\$ST\$Health\$stVal	health)	server is up
		1-



NSMMXUI\$SI\$MOQ\$L	Meter timestamp (see note 1,2,3 below)	server is up
	Matan timestama (and note 1.0.2 holow)	Constant
IEC61850SRVMeas/nsMMXU1\$ST\$Mod\$stVal	1 = "ON"	Read only.
	not health)	server is up
IEC61850SRVMeas/nsMMXU1\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Update when
		server is up.
IEC61850SRVMeas/nsMMXU1\$ST\$Health\$t	Meter timestamp (see note 1,2,3 below) Update when	

# 5.2.10: Logic Node: IEC61850SRVMEAS/MFLK1

OBJECT PATH	VALUE	COMMENT
	MFLK1	
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
hsMFLK1\$CF\$Mod\$ct1Mode1		Constant
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
hsMFLK1\$CF\$PhPlt\$phsA\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPlt\$phsA\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPlt\$phsA\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPlt\$phsA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPlt\$phsA\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPlts\$phA\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	32767	Read only.
hsMFLK1\$CF\$PhPlt\$phsA\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
hsMFLK1\$CF\$PhPlt\$phsB\$db		client via .cid
		file
TEC61850SBVMeas/	0	Bead only.
heMFIK1\$CF\$DbD1+\$nbeB\$rangeC\$bbLim\$f		Constant
TEC61850SRVMeas/	0	Bead only.
hsMFLK1SCESPhPltSphsBSrangeCShLimSf		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1SCESPhPltSphsBSrangeCSlLimSf		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPlt\$phsB\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1SCFSPhPltsSphBSrangeCSminSf		Populated when
		server is up
TEC61850SBVMeas/	32767	Bead only
heMFLK1SCESDhD1+SnheBSrangeCSmaySf	02.00	Populated when
nom bitter et ni reepitoberangeeemaker		roputated when
TEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
h - MEL K1 COECDED1 + Creb - CC-b	Beaubana 100000 1000	alient win aid
IISME LK19CE 9PIIP109piiS09db		cilent via .cid
		IILe Dead anly
IEC6185USRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPlt\$phsC\$rangeC\$hhLim\$t	•	Constant
LECOLOJOSRVMERS/	0	Read Only.
ISMFLKIŞCFŞPhPitşphsCşrangeCşhLimşi	0	Constant Read only
IEC6185USRVMeas/	0	Read only.
ISMFLKIŞCFŞPNPICŞpnsCşrangeCşlLimŞt	0	Constant Road only
		Read Only.
nsMFLKIŞCFŞPhPltşphsCşrangeCŞllLimŞf	0	Constant
LECOLOJUSKVMEdS/	U	Read Only.
nsMFLK1\$CF\$PhPlts\$phC\$rangeC\$min\$f		Populated when
770010500000	20777	server is up
IEC0185USRVMeas/	32/0/	Read only.
hsMFLK1\$CF\$PhPlt\$phsC\$rangeC\$max\$f		Populated when
		server is up


IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
hsMFLK1\$CF\$PhPst\$phsA\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsA\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsA\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsA\$rangeC\$lLim\$f		Constant Bood only
IEC61850SRVMeas/	0	Read only.
hsMFLKIŞCFŞPhPstşphsAşrangeCşIILimşt		Constant Road only
heMFIK1\$CF\$DhDat\$pha}\$rangoC\$min\$f		Read Only.
IISMFLK19CF9FIIFSC9piiSA91aiigeC9iitii91		Populated when
TEC61850SRUMeas/	32767	Server 15 up Read only
heMFIK1\$CE\$DhDet\$nhel\$rangeC\$may\$f	32707	Populated when
IISMF LKTOCFOFIIFSCOPIISAOT AIIGECOMAAOT		ropulated when
TEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
hsMFLK1\$CE\$PhPst\$phsB\$db	2000000 10000	client via cid
		filo
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CE\$PhPst\$phsB\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsB\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsB\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsB\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsB\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	32767	Read only.
hsMFLK1\$CF\$PhPst\$phsB\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
hsMFLK1\$CF\$PhPst\$phsC\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsC\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsC\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsC\$rangeC\$lLim\$f		Constant
IEC6185USRVMeas/	0	Read only.
hsMFLK1\$CF\$PhPst\$phsC\$rangeC\$11Lim\$t		Constant Bood only
LECULOJUSKVMEdS/	U U	Read Only.
nsmr LKIQUFQFNPSTQpnsUQrangeCQminQf		ropulated when
TEC61850SRVMeas/	32767	Bead only
homer K120E2 Db Dot 2mb - 20 more - 20 more 20	52101	Reau Unity.
nsmrukişCrşPnPstşpnsCşrangeCşmaxŞf		ropulated when
		server is up
IEC61850SRVMeas/hsMFLK1\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/hsMFLK1\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/hsMFLK1\$DC\$Health\$d	"1=OK, 2=WARNING, 3=ALARM"	Read only.
		Constant
1EC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
hsMFLK1\$DC\$NamPlt\$vendor		Constant
IEC6185USRVMeas/	Comm runtime version	Read only.
hsMFLK1\$DC\$NamPlt\$swRev	HIOCTONI NODE NAMEDIARE"	Constant
IECOIOSUSKVMEAS/NSMFLKIŞDCŞNamPltŞd	"LOGICAL NODE NAMEPLATE"	Kead only.
TEC61950 SDVMocco /		Constant Road crive
LECOLOJUSKVMERS/	SHURI TERM FLICKER VAN"	Read only.
ISMFLKIŞDCŞPNPSTŞPhSAŞd	"SHOPT TERM ELICKER VENU"	Constant Read only
homer K1 Spos ph pot Sph - p S -	SHORT TERM FEICRER VDW	Constant
TEC61850SRVMeas/	"SHORT TERM FLICKER VON"	Read only
hoMELK1SDCSDbBatSabaCSd	SHORT THEFT FROMEN VOIN	Constant
πομετικούλητατόδηγο		CONSERVE



IEC61850SRVMeas/	"LONG TERM FLICKER VAN"	Read only.
hsMFLK1\$DC\$PhPlt\$phsA\$d		Constant
IEC61850SRVMeas/	"LONG TERM FLICKER VBN"	Read only.
hsMFLK1\$DC\$PhPlt\$phsB\$d		Constant
IEC61850SRVMeas/	"LONG TERM FLICKER VCN"	Read only.
hsMFLK1\$DC\$PhPlt\$phsC\$d		Constant
IEC61850SRVMeas/hsMFLK1\$EX\$NamPlt\$LnNs	"IEC 61850-7-4:2010"	Read only.
		Constant
		oonocano
TROCIDE 000104 /		TT - 1 - 1
IEC6185USRVMeas/	200 msec Long Term Flicker Phase A-N Voltage:	Update at least
hsMFLK1\$MX\$PhPlt\$phsA\$instCVal\$mag\$f	InstMag	every 200 msec
IEC61850SRVMeas/	200 msec Long Term Flicker Phase A-N Voltage:	opdate when
hsMFLKIŞMXŞPhPltŞphsAŞcValşmagşi	Mag	InstMag out of
	0.00 (Comm muntime basilth bit 5), 0.40	deadband
IEC6185USRVMeas/	UXUU (Comm runtime nealth, bit 5); UX40	Read only.
hsMFLK1\$MX\$PhPlt\$phsA\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
hsMFLK1\$MX\$PhPlt\$phsA\$t		either "Mag" or
		"q" from
		whatever ph-n
		change
IEC61850SRVMeas/	200 msec Long Term Flicker Phase B-N Voltage:	Update at least
hsMFLK1\$MX\$PhPlt\$phsB\$instCVal\$mag\$f	InstMag	every 200 msec
IEC61850SRVMeas/	200 msec Long Term Flicker Phase B-N Voltage:	Update when
hsMFLK1\$MX\$PhPlt\$phsB\$cVal\$mag\$f	Mag	InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
hsMFLK1\$MX\$PhPlt\$phsB\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
hsMFLK1\$MX\$PhPlt\$phsB\$t		either "Mag" or
-		"a" from
		whatever ph-n
		change
TEC61850SBVMeas/	200 msec Long Term Flicker Phase C-N Voltage:	Update at least
heMFIK1\$MY\$DbD1+\$nbcC\$inctCVal\$mag\$f	InstMag	every 200 msec
IEC61850SRVMeas/	200 msec Long Term Flicker Phase C-N Voltage:	Update when
heMFIK1\$MY\$PhPlt\$pheC\$cVal\$mag\$f	Mag	InstMag out of
nom Externetin reephocecetaremager	niug	doadband
TEC61850SRVMeas/	0x00 (Comm runtime health, bit 5): 0x40	Read only
heMEIK1\$MV\$PhPlt\$phcC\$a	(otherwise)	Repulated when
IISME BKIŞMAŞENEICŞDIISCŞQ	(Otherwise)	roputaced when
TEC61850SBVMeas/	Meter timestamp (see note 1 below)	Undate when
homer K1 SMVS Db Dl + Sph a CS+	Neter timestamp (see note i berow)	ojther "Mag" or
IISME LKI ŞMKŞPIPI CŞDIISCŞC		either Mag Of
		"q" Irom
		whatever ph-n
		change
IEC6185USRVMeas/	200 msec Short Term Flicker Phase A-N Voltage:	Update at least
hsMFLK1\$MX\$PhPst\$phsA\$instCVal\$mag\$f	InstMag	every 200 msec
IEC6185USRVMeas/	200 msec Short Term Flicker Phase A-N Voltage:	update when
hsMFLK1\$MX\$PhPst\$phsA\$cVal\$mag\$f	Mag	InstMag out of
		deadband
IEC61850SRVMeas/		- 1 - 1
	0x00 (Comm runtime health, bit 5); 0x40	Read only.
hsMFLK1\$MX\$PhPst\$phsA\$q	0x00 (Comm runtime health, bit 5); 0x40 (otherwise)	Read only. Populated when
hsMFLK1\$MX\$PhPst\$phsA\$q	0x00 (Comm runtime health, bit 5); 0x40 (otherwise)	Read only. Populated when server is up
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below)	Read only. Populated when server is up Update when
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsA\$t	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below)	Read only. Populated when server is up Update when either "Mag" or
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsA\$t	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below)	Read only. Populated when server is up Update when either "Mag" or "q" from
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsA\$t	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below)	Read only. Populated when server is up Update when either "Mag" or "q" from whatever ph-n
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsA\$t	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below)	Read only. Populated when server is up Update when either "Mag" or "q" from whatever ph-n change
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsA\$t IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below) 200 msec Short Term Flicker Phase B-N Voltage:	Read only. Populated when server is up Update when either "Mag" or "q" from whatever ph-n change Update at least
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsA\$t IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsB\$instCVal\$mag\$f	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below) 200 msec Short Term Flicker Phase B-N Voltage: InstMag	Read only. Populated when server is up Update when either "Mag" or "q" from whatever ph-n change Update at least every 200 msec
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsA\$t IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsB\$instCVal\$mag\$f IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below) 200 msec Short Term Flicker Phase B-N Voltage: InstMag 200 msec Short Term Flicker Phase B-N Voltage:	Read only. Populated when server is up Update when either "Mag" or "q" from whatever ph-n change Update at least every 200 msec Update when
hsMFLK1\$MX\$PhPst\$phsA\$q IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsA\$t IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsB\$instCVal\$mag\$f IEC61850SRVMeas/ hsMFLK1\$MX\$PhPst\$phsB\$cVal\$mag\$f	0x00 (Comm runtime health, bit 5); 0x40 (otherwise) Meter timestamp (see note 1 below) 200 msec Short Term Flicker Phase B-N Voltage: InstMag 200 msec Short Term Flicker Phase B-N Voltage: Mag	Read only. Populated when server is up Update when either "Mag" or "q" from whatever ph-n change Update at least every 200 msec Update when InstMag out of



IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
hsMFLK1\$MX\$PhPst\$phsB\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
hsMFLK1\$MX\$PhPst\$phsB\$t		either "Mag" or
		"q" from
		whatever ph-n
		change
IEC61850SRVMeas/	200 msec Short Term Flicker Phase C-N Voltage:	Update at least
hsMFLK1\$MX\$PhPst\$phsC\$instCVal\$mag\$f	InstMag	every 200 msec
IEC61850SRVMeas/	200 msec Short Term Flicker Phase C-N Voltage:	Update when
hsMFLK1\$MX\$PhPst\$phsC\$cVal\$mag\$f	Mag	InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
hsMFLK1\$MX\$PhPst\$phsC\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
hsMFLK1\$MX\$PhPst\$phsC\$t		either "Mag" or
		"q" from
		whatever ph-n
		change
IEC61850SRVMeas/hsMFLK1\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/hsMFLK1\$ST\$Beh\$stVal	1 = "ON"	Read only.
		Constant
IEC61850SRVMeas/hsMFLK1\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/hsMFLK1\$ST\$Health\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Update when
hsMFLK1\$ST\$Health\$stVal	health)	server is up
IEC61850SRVMeas/hsMFLK1\$ST\$Health\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/hsMFLK1\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/hsMFLK1\$ST\$Mod\$stVal	1 = "ON"	Read only.
		•
		Constant
IEC61850SRVMeas/hsMFLK1\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Constant Populated when

### 5.2.11: Logic Node: IEC61850SRVMEAS/MHAI1

OBJECT PATH	VALUE	COMMENT	
MHAI1			
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.	
lsMHAI1\$CF\$Mod\$ctlModel		Constant	
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by	
lsMHAI1\$CF\$TddA\$phsA\$db		client via .cid	
		file	
IEC61850SRVMeas/	0	Read only.	
lsMHAI1\$CF\$TddA\$phsA\$rangeC\$hhLim\$f		Constant	
IEC61850SRVMeas/	0	Read only.	
lsMHAI1\$CF\$TddA\$phsA\$rangeC\$hLim\$f		Constant	
IEC61850SRVMeas/	0	Read only.	
lsMHAI1\$CF\$TddA\$phsA\$rangeC\$lLim\$f		Constant	
IEC61850SRVMeas/	0	Read only.	
lsMHAI1\$CF\$TddA\$phsA\$rangeC\$llLim\$f		Constant	
IEC61850SRVMeas/	0	Read only.	
lsMHAI1\$CF\$TddA\$phsA\$rangeC\$min\$f		Populated when	
		server is up	
IEC61850SRVMeas/	100	Read only.	
lsMHAI1\$CF\$TddA\$phsA\$rangeC\$max\$f		Populated when	
		server is up	
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by	
lsMHAI1\$CF\$TddA\$phsB\$db		client via .cid	
		file	

IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$TddA\$phsB\$rangeC\$hhLim\$f	0	Constant
LEC6185USRVMeas/	0	Read only.
ISMHAIIŞCFŞTODAŞpnsBşrangeCşnLimşi IEC61850SRVMeas/	0	Constant Read only
lsMHAI1\$CF\$TddA\$phsB\$rangeC\$lLim\$f	0	Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$TddA\$phsB\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$TddA\$phsB\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$TddA\$phsB\$rangeC\$max\$f		Populated when
		server is up
LECTIONSKVMEAS/	Deadband = 100000 = 100%	Modified by
ISMHAIIŞCEŞTADAŞpiscşab		file
TEC61850SBVMeas/	0	IILE Read only
lsMHAIl\$CF\$TddA\$phsC\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$TddA\$phsC\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$TddA\$phsC\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
LSMHAI1\$CF\$TddA\$phsC\$rangeC\$llLim\$f		Constant Read only
Isoutojuskvneas/	о •	Populated when
13PiliA119019100A9pil3091alige09iii1191		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$TddA\$phsC\$rangeC\$max\$f		Populated when
· ·		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAI1\$CF\$ThdA\$phsA\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsA\$rangeC\$hhLim\$f		Constant Road only
lsMHAI1\$CF\$ThdA\$phsA\$rangeC\$hLim\$f	0	Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsA\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
ISMHAIIŞCFŞThdAşphsAşrangeCşminşi		Populated when
TEC61850SRVMeas/	100	Server 15 up Bead only
lsMHAI1\$CF\$ThdA\$phsA\$rangeC\$max\$f	100	Populated when
		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAI1\$CF\$ThdA\$phsB\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsB\$rangeC\$hhLim\$f		Constant
IEC6185USRVMeas/	U	kead only.
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsB\$rangeC\$lLim\$f		Constant.
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsB\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsB\$rangeC\$min\$f		Populated when
TECK1950CDIMORC/	100	server is up
	100	Read OILY.
τομπατιόςεότησφόδηροόταμβοςόψαχότ		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAI1\$CF\$ThdA\$phsC\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsC\$rangeC\$hhLim\$f		Constant



IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsC\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsC\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsC\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdA\$phsC\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdA\$phsC\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/	Deadband = $100000 = 100\%$	Modified by
lsMHAI1\$CF\$ThdEvnA\$phsA\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnA\$phsA\$rangeC\$hhLim\$		Constant
f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnA\$phsA\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnA\$phsA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	U	Read only.
lsMHAI1\$CF\$ThdEvnA\$phsA\$rangeC\$llLim\$		Constant
f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnA\$phsA\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdEvnA\$phsA\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAI1\$CF\$ThdEvnA\$phsB\$db		client via .cid
		file
IEC6185USRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hhLim\$		Constant
÷		
TEC619E0CDUMoooc/	0	Dood only
IEC61850SRVMeas/	0	Read only.
IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f	0	Read only. Constant Read only
IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f	0	Read only. Constant Read only. Constant
IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/		Read only. Constant Read only. Constant Read only.
IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$	0 0 0	Read only. Constant Read only. Constant Constant
IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f	0 0 0	Read only. Constant Read only. Constant Read only. Constant
<pre>IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/</pre>	0 0 0	Read only. Constant Read only. Constant Read only. Constant Read only.
<pre>IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f</pre>	0 0 0 0	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when
IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f	0 0 0 0	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up
<pre>IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/</pre>	0 0 0 0 100	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only.
<pre>IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f</pre>	0 0 0 0 100	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when
IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f	0 0 0 0 100	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up
<pre>IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/</pre>	0 0 0 0 100 Deadband = 100000 = 100%	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by
<pre>IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f</pre>	0 0 0 0 100 Deadband = 100000 = 100%	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid
IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f	0 0 0 100 Deadband = 100000 = 100%	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file
<pre>IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/</pre>	0 0 0 100 Deadband = 100000 = 100%	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only.
<pre>IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsC\$db</pre>	0 0 0 100 Deadband = 100000 = 100%	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant
<pre>IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/ lsMHAI1\$CF\$ThdEvnA\$phsC\$db</pre>	0 0 0 100 Deadband = 100000 = 100% 0	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant
<pre>IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsC\$rangeC\$hhLim\$ f IEC61850SRVMeas/</pre>	0 0 0 100 Deadband = 100000 = 100% 0 0	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant Read only.
<pre>IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$hLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$lLim\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$llLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$min\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsB\$rangeC\$max\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsC\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsC\$rangeC\$hLim\$ f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdEvnA\$phsC\$rangeC\$hLim\$ f</pre>	0 0 0 100 Deadband = 100000 = 100% 0 0	Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant Read only. Constant
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lsMHAI1\$CF\$ThdEvnPhV\$phsA\$db		client via .cid
		file
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lsMHAI1\$CF\$ThdEvnPhV\$phsA\$rangeC\$hhLi		Constant
m\$f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsA\$rangeC\$hLim		Constant
\$f		
IEC61850SRVMeas/	0	Read only.
leMHAIIŚCEŚThdEwnDhWŚnheAśrangeCŚliim		Constant
c.		constant
PL FECCI PEOCRYMODOL	0	Dood only
LECOLOSUSKVMEdS/	0	Read only.
ISMHAIIŞCEŞTNdEVNPNVŞpnsAşrangeCşIILi		Constant
m\$f	<u>^</u>	
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsA\$rangeC\$min\$		Populated when
f		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsA\$rangeC\$max\$		Populated when
f		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAI1\$CF\$ThdEvnPhV\$phsB\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsB\$rangeC\$hhLi		Constant
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a c		CONStant
ŞI TEC€1950CDUMooo /	0	Dood only
LECOLOSUSKVMEdS/	0	Read only.
ISMHAIIŞCFŞTNdEVNPNVŞpnsBşrangeCşIILi		Constant
m\$f		<b>D</b>
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsB\$rangeC\$min\$		Populated when
f		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsB\$rangeC\$max\$		Populated when
f		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAI1\$CF\$ThdEvnPhV\$phsC\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsC\$rangeC\$hhLi		Constant
m\$f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsC\$rangeC\$hLim		Constant
\$f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPhV\$phsC\$rangeC\$llim		Constant
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IEC61850SRVMeas/	0	Read onlv.
lsMHAT1SCFSThdEvnPhVSphsCSrangeCS111j		Constant
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TEC61850SRVMeas/	0	Read only
	Š	Populated when
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	100	server is up
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lsMHAI1\$CF\$ThdEvnPhV\$phsC\$rangeC\$max\$		Populated when
f(		server is up
1EC61850SRVMeas/	Deadband = $100000 = 100\%$	Modified by
lsMHAI1\$CF\$ThdEvnPPV\$phsAB\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPPV\$phsAB\$rangeC\$hhL		Constant
im\$f		



IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPPV\$phsAB\$rangeC\$hLi		Constant
m\$f		
IEC61850SRVMeas/	0	Read only.
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mŞf TECC1950CDVMcccc/	0	Dood only
Lewis I Screendern DDVerbadder and Celli	0	Read only.
isMHAIISCFSTNdEVNPPVSpnSABSrangeCSIIL		Constant
IEC61850SRVMeas/	0	Read only.
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\$f		server is up
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IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAI1\$CF\$ThdEvnPPV\$phsBC\$db		client via .cid
		file
LEC61850SRVMeas/	0	Read only.
isMHAIISCESTNdEVNPPVSpnsBCSrangeCSnnL		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPPV\$phsBC\$rangeC\$hLi		Constant
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IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdEvnPPV\$phsBC\$rangeC\$lLi		Constant
m\$f		
IEC61850SRVMeas/	0	Read only.
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		file
IEC61850SRVMeas/	0	Read only.
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im\$f TEC61850SRVMeas/	0	Read only
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IEC61850SRVMeas/	0	Read only.
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?⊥ IEC61850SRVMeas/	100	Read only.
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f TEC61950SDVMoord	0	Poad only
	0	Read only.
IEC61850SRVMeas/	0	Read only.
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IEC61850SRVMeas/	0	Read only.
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TEC61850SRVMoos	100	Bood only
	100	Read Only.
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		server is up
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IEC61850SRVMeas/	0	Read only.
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lsMHAI1\$CF\$ThdOddA\$phsB\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
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		server is up
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IEC61850SRVMeas/	0	Read only.
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		server is up
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· · · · · · ·		file
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TEC61850SRVMeas/	0	Read only
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f		server is up
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L LEC61850SPUMoos /	$D_{0,0} = 100000 - 100\%$	Server is up Modified by
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IEC61850SRVMeas/	0	Read only.
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\$f		
IEC61850SRVMeas/	0	Read only.
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\$f		
IEC61850SRVMeas/	0	Read only.
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IEC61850SRVMeas/	0	Read only.
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f		server is up
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IEC61850SRVMeas/	0	Read only.
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f		server is up
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<pre>lsMHAI1\$CF\$ThdOddPPV\$phsAB\$db IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hhL im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hLi m\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLL im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f</pre>	0 0 0 0 0 0 100 Deadband = 100000 = 100%	read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid
<pre>IsMHAI1\$CF\$ThdOddPPV\$phsAB\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hhL im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi m\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLL im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f</pre>	0 0 0 0 0 0 100 Deadband = 100000 = 100%	read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file
<pre>IsMHAI1\$CF\$ThdOddPPV\$phsAB\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hLi im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi m\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IEC61850SRVMeas/ ISMHAI1\$CF\$ThdOddPPV\$phsBC\$db IEC61850SRVMeas/</pre>	0 0 0 0 0 100 Deadband = 100000 = 100% 0	read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only.
<pre>lsMHAI1\$CF\$ThdOddPPV\$phsAB\$db IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hLi im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsBC\$cdb IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsBC\$cdb</pre>	0 0 0 0 0 100 Deadband = 100000 = 100% 0	<pre>client via .cid file Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant</pre>
<pre>IsMHAI1\$CF\$ThdOddPPV\$phsAB\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hLi im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi m\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsBC\$db</pre>	0 0 0 0 0 0 100 Deadband = 100000 = 100% 0	file Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant
<pre>IsMHAI1\$CF\$ThdOddPPV\$phsAB\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hLi im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi im\$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$max \$f IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsBC\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsBC\$db IEC61850SRVMeas/ IsMHAI1\$CF\$ThdOddPPV\$phsBC\$db</pre>	0 0 0 0 0 100 Deadband = 100000 = 100% 0 0	read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant Read only.
<pre>lsMHAI1\$CF\$ThdOddPPV\$phsAB\$db IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hLi m\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi m\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$lLi im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$mL im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$hL im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$hL im\$f</pre>	0 0 0 0 0 100 Deadband = 100000 = 100% 0 0	read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant Read only. Constant
<pre>lsMHAI1\$CF\$ThdOddPPV\$phsAB\$db IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hLi m\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$hLi m\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$1LL im\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$min \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$mix \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsAB\$rangeC\$max \$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$hLi m\$f IEC61850SRVMeas/ lsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$hLi m\$f</pre>	0 0 0 0 0 100 Deadband = 100000 = 100% 0 0	Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Constant Read only. Populated when server is up Read only. Populated when server is up Modified by client via .cid file Read only. Constant Read only. Constant



IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$lLi		Constant
m\$f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$11L		Constant
im\$f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdOddPPV\$phsBC\$rangeC\$min		Populated when
\$f		server is up
IEC61850SRVMeas/	100	Read only.
ISMHAIIŞCFŞThdOddPPVŞphsBCŞrangeCşmax		Populated when
SI TEC61850SBVMoose/	$D_{0,0} = 100000 - 100\%$	server is up Modified by
LaMUAT16CESTbdoddDDVSpbaCASdb	Deadbaild - 100000 - 100%	aliant wish aid
15MHA119CF91HdOddPPV9pHSCA9db		file
TEC61850SBVMeas/	0	Read only
lsMHAIlśCFŚThdOddPPV\$phsCA\$rangeC\$hbL	Ŭ,	Constant
imSf		conseanc
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdOddPPV\$phsCA\$rangeC\$hLi		Constant
m\$f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdOddPPV\$phsCA\$rangeC\$lLi		Constant
m\$f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdOddPPV\$phsCA\$rangeC\$11L		Constant
im\$f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdOddPPV\$phsCA\$rangeC\$min		Populated when
\$f		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdOddPPV\$phsCA\$rangeC\$max		Populated when
\$f		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAIl\$CF\$ThdPhV\$phsA\$db		client via .cid
		file Dead and
LECGIGJUSKVMeds/	0	Read only.
ISMHAIISCESTHOPHVSphSASrangecshhlimsi	0	Read only
leMHAI1SCESTDdDbWSphgASrangeCSbLimSf	Ŭ,	Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsA\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsA\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsA\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdPhV\$phsA\$rangeC\$max\$f		Populated when
TROC105000000 /	D 1 100000	server is up
LEC61850SRVMeas/	Deadband = $100000 = 100\%$	Modified by
ISMHAIIŞCFŞThdPhV\$phsB\$db		client via .cid
TEC61950SDUMODE/		file Road only
		Constant
IEC61850SBVMeas/	0	Read only
lsMHAIlSCESThdPhVSphsRSrangeCShLimSf		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsB\$rangeC\$llim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsB\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsB\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdPhV\$phsB\$rangeC\$max\$f		Populated when
		server is up
1EC61850SRVMeas/	Deadband = $100000 = 100\%$	Modified by
lsMHAI1\$CF\$ThdPhV\$phsC\$db		client via .cid
		file



IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsC\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsC\$rangeC\$hLim\$f	0	Constant Read only
Lectrosuskymeds/	0	Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsC\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPhV\$phsC\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdPhV\$phsC\$rangeC\$max\$f		Populated when
		server is up
LEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
ISMHAIIŞCFŞTNAPPVŞpnSABŞAD		client via .cid
TEC61850SBVMeas/	0	IIIe Read only
lsMHAIl\$CF\$ThdPPV\$phsAB\$rangeC\$hhLim\$	Ŭ,	Constant
f		oonocano
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsAB\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsAB\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	U	Read only.
LsMHAI1\$CF\$ThdPPV\$phsAB\$rangeC\$llLim\$		Constant
Í IFC61850SDVMeas/		Read only
LECTIOJUSKVMEdS/	0	Read Only. Repulated when
ISMMAII;Cr;IIdrrv;piisAb;IaiigeC;MIIi;I		sorver is up
IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdPPV\$phsAB\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAI1\$CF\$ThdPPV\$phsBC\$db		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsBC\$rangeC\$hhLim\$		Constant
f TECC1950CDVMcccc/	0	Dood only
LECTIOJUSKVMEdS/	0	Constant
TEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsBC\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsBC\$rangeC\$llLim\$		Constant
f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsBC\$rangeC\$min\$f		Populated when
	100	server is up
	100	kead only.
ISMHAIIŞCEŞTNAPPVŞPhsBCŞrangeCŞmaxŞİ		ropulated when
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMHAT1\$CF\$ThdPPV\$phsCA\$db		client via cid
		file
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsCA\$rangeC\$hhLim\$		Constant
f		
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsCA\$rangeC\$hLim\$f		Constant
LEC61850SRVMeas/	U	Read only.
ISMHAIIŞCFŞThdPPV\$phsCA\$rangeC\$lLim\$f IEC61850SRVMeas/		Constant Read only
lsMHAIlSCESThdDDVSphsCASrangeCSlllims	Ĭ	Constant
f		CONDUMIL
IEC61850SRVMeas/	0	Read only.
lsMHAI1\$CF\$ThdPPV\$phsCA\$rangeC\$min\$f		Populated when
		server is up
		-



IEC61850SRVMeas/	100	Read only.
lsMHAI1\$CF\$ThdPPV\$phsCA\$rangeC\$max\$f		Populated when
		server is up
		561761 16 up
TECC1950CDVMono/lowUAT16DC6Dob6d	"ODEDATING MODE DEUXUTOD"	Dead only
IEC010505RVMeas/ISMAAIIŞDCŞBellşd	OPERALING MODE BEHAVIOR	Read Only.
TEC61850SRVMeas/lsMHAT1SDCSHealthSd	"1=OK 2=WARNING 3=ALARM"	Constant Read only
TECOTOJOSKVMEds/ISMIATI\$DC\$Hearchigd	I-OR, Z-WARNING, J-ALARM	Read Only.
TEC61850SRVMeas/lsMHAT1SDCSModSd	"OPERATING MODE"	Read only
TECOTOSOSIUMERS/TSPIIATTODOQNORQU	OTENATING MODE	Constant
TEC61850SRVMeas/lsMHAT1SDCSNamPltSd	"LOGICAL NODE NAMERLATE"	Bead only
120010000000000000000000000000000000000		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
lsMHAT1\$DC\$NamPlt\$swRev		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
lsMHAI1\$DC\$NamPlt\$vendor		Constant
IEC61850SRVMeas/lsMHAI1\$DC\$NomA\$d	"TDD MAXIMUM DEMAN REFERENCE VALUE"	Read only.
		Constant
IEC61850SRVMeas/	"TDD PHASE A CURRENT"	Read only.
lsMHAI1\$DC\$TddA\$phsA\$d		Constant
IEC61850SRVMeas/	"TDD PHASE B CURRENT"	Read only.
lsMHAI1\$DC\$TddA\$phsB\$d		Constant
IEC61850SRVMeas/	"TDD PHASE C CURRENT"	Read only.
lsMHAI1\$DC\$TddA\$phsC\$d		Constant
IEC61850SRVMeas/	"THD PHASE A CURRENT"	Read only.
lsMHAI1\$DC\$ThdA\$phsA\$d		Constant
LECOLOJUSKVMERS/	IND PHASE B CURRENT"	kead only.
ISMHAI1\$DC\$ThdA\$phsB\$d	UMUD DUACE C CUDDENMU	Constant Read only
LECTISJUSKVMEAS/	"THD PHASE C CORRENT"	Read only.
ISMHAIIŞDCŞTNDAŞphSCŞd	"THD EVEN DHASE & CURRENT"	Constant Read only
leMUAT16DC6mbdEuraA6rbaA6d	THE EVEN THASE A CONNENT	Constant
IEC61850SRVMeas/	"THD EVEN PHASE B CURRENT"	Read only
lsMHAI1SDCSThdEvnASphsBSd		Constant
IEC61850SRVMeas/	"THD EVEN PHASE C CURRENT"	Read only.
lsMHAT1\$DC\$ThdEvnA\$phsC\$d		Constant
IEC61850SRVMeas/	"THD EVEN PHASE A-N VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdEvnPhV\$phsA\$d		Constant
IEC61850SRVMeas/	"THD EVEN PHASE B-N VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdEvnPhV\$phsB\$d		Constant
IEC61850SRVMeas/	"THD EVEN PHASE C-N VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdEvnPhV\$phsC\$d		Constant
IEC61850SRVMeas/	"THD EVEN PHASE A-B VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdEvnPPV\$phsAB\$d		Constant
IEC61850SRVMeas/	"THD EVEN PHASE B-C VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdEvnPPV\$phsBC\$d		Constant
LEC6185USRVMeas/	"THD EVEN PHASE C-A VOLTAGE"	Read only.
ISMHAIIŞDCŞTNGEVNPPVŞpnSCAŞd	"THD ODD PHASE & CURRENT"	Constant Read only
leMUAT1 CDC CmbdOdd A Cmbc A Cd	THE ODE THREE & CONNENT	Constant
IEC61850SRVMeas/	"THD ODD PHASE B CURRENT"	Read only.
lsMHAI1\$DC\$ThdOddA\$phsB\$d		Constant
IEC61850SRVMeas/	"THD ODD PHASE C CURRENT"	Read only.
lsMHAI1\$DC\$ThdOddA\$phsC\$d		Constant
IEC61850SRVMeas/	"THD ODD PHASE A-N VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdOddPhV\$phsA\$d		Constant
IEC61850SRVMeas/	"THD ODD PHASE B-N VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdOddPhV\$phsB\$d		Constant
IEC61850SRVMeas/	"THD ODD PHASE C-N VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdOddPhV\$phsC\$d		Constant
LEC6185USRVMeas/	"THD ODD PHASE A-B VOLTAGE"	Read only.
ISMHAII\$DC\$ThdOddPPV\$phsAB\$d		Constant
	IND UND FRASE D-C VOLTAGE"	Read Only.
ISMHAIIŞDCŞTNdOddPPVŞphsBCŞd	"THD ODD PHASE C-A VOLTACE"	Constant Read only
	THE OD FIRSE C-A VOLTAGE	Constant
TEC61850SRVMeas/	"THD PHASE A-N VOLTAGE"	Read only
lsMHAI1SDCSThdPhVSphsASd		Constant
IEC61850SRVMeas/	"THD PHASE B-N VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdPhV\$phsB\$d		Constant
IEC61850SRVMeas/	"THD PHASE C-N VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdPhV\$phsC\$d		Constant
-		



IEC61850SRVMeas/	"THD PHASE A-B VOLTAGE"	Read only.
lsMHAI1\$DC\$ThdPPV\$phsAB\$d		Constant
IEC61850SRVMeas/	"THD PHASE B-C VOLTAGE"	Read only.
lsMHAIl\$DC\$ThdPPV\$phsBC\$d		Constant Road only
Lewin T1 SpcSmb dppvSpb aC2 Sd	"THD PHASE C-A VOLTAGE"	Read only.
ISMAAIIŞDCŞIIIdPPVŞDISCAŞd		Constant
IEC61850SRVMeas/	3 seconds TDD Phase A Current: InstMag	Update at least
ISMHAI1\$MX\$TddA\$phsA\$instCVal\$mag\$t	3 seconds TDD Phase & Current, Mag	every 3 seconds
LeMUATI SMY STIdd Spher Sevel Smarsf	5 Seconds TDD Thase & cuttent. Mag	
ISMIATI (MA) IOUA (PIISA (CVAI) MAG) I		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$TddA\$phsA\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$TddA\$phsA\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds TDD Phase B Current: InstMag	Update at least
lsMHAI1\$MX\$TddA\$phsB\$instCVal\$mag\$f		every 3 seconds
LEC6185USRVMeas/	3 seconds TDD Phase B Current: Mag	Update when
ISMHAIIŞMXŞTQQAŞpNSBŞCValşmagşî		instMag out of
IEC61850SRVMeas/	0x00 (Comm runtime health bit 5) · 0x40	Read only
LeMHAIISMYSTddaspheRSc	(otherwise)	Populated when
Taminti Awy Iddy buapyd	(otherwise)	server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$TddA\$phsB\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds TDD Phase C Current: InstMag	Update at least
lsMHAI1\$MX\$TddA\$phsC\$instCVal\$mag\$f		every 3 seconds
IEC61850SRVMeas/	3 seconds TDD Phase C Current: Mag	Update when
lsMHAI1\$MX\$TddA\$phsC\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	UxUU (Comm runtime health, bit 5); Ux40	Read only.
ISMHAIIŞMXŞTddAşphsCşq	(otherwise)	Populated when
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Server 15 up
lsMHAI1SMXSTddASphsCSt	Heter ermestamp (see Heter Perow)	either "Mag" or
101mm1101mo1ddiiopii00000		"g" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD Phase A Current: InstMag	Update at least
lsMHAI1\$MX\$ThdA\$phsA\$instCVal\$mag\$f		every 3 seconds
IEC61850SRVMeas/	3 seconds THD Phase A Current: Mag	Update when
lsMHAI1\$MX\$ThdA\$phsA\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	UXUU (Comm runtime health, bit 5); 0x40	Read only.
lsMHAIl\$MX\$ThdA\$phsA\$q	(otherwise)	Populated when
TEC61850SRVMeas/	Meter timestamn (see note 1 bolow)	server is up Undate when
LeMUATI SMY STED da Sebea St	Meter timestamp (see note i berow)	oither "Mag" or
1 SMIRT 1 ONA O THORY DISAGE		"a" from whatower
		q from whatever
IEC61850SRVMeas/	3 seconds THD Phase B Current: InstMag	Update at least
lsMHAI1\$MX\$ThdA\$phsB\$instCVal\$maq\$f		every 3 seconds
IEC61850SRVMeas/	3 seconds THD Phase B Current: Mag	Update when
lsMHAI1\$MX\$ThdA\$phsB\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdA\$phsB\$q	(otherwise)	Populated when
TECC1950CDVMcac/	Motor timostama (acc acts 1 balan)	server is up
	Meret rimestamp (see note i betow)	opuace when
TeruntTéruné tudyé buspé r		"a" from what over
		y iron whatever
IEC61850SRVMeas/	3 seconds THD Phase C Current: InstMag	Update at least
lsMHAI1\$MX\$ThdA\$phsC\$instCVal\$mag\$f	· · · · · · · · · · · · · · · · · · ·	every 3 seconds
		A



IEC61850SRVMeas/	3 seconds THD Phase C Current: Mag	Update when
leMHAT1\$MY\$ThdA\$pheC\$cVal\$mag\$f		InstMag out of
13MATI (MAQ MAA) MAA) MAA		
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdA\$phsC\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAT1\$MX\$ThdA\$phsC\$t		either "Mag" or
		"a" from whatever
		q IIOM WHALEVEL
		ph-n change
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase A Current: InstMag	Update at least
lsMHAI1\$MX\$ThdEvnA\$phsA\$instCVal\$mag\$		every 3 seconds
f		
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase A Current: Mag	Update when
lsMHAT1\$MX\$ThdEvnA\$phsA\$cVal\$mag\$f		InstMag out of
ionnii i ynny mai ynny phony cyarynagy i		
	0-00 (Commenting boolth bit E), 0-40	deadband Dead an la
IEC6185USRVMeas/	0x00 (Comm runtime nearth, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdEvnA\$phsA\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdEvnA\$phsA\$t		either "Mag" or
		"a" from what over
		q IIOM WHALEVEL
TROCIOS 000000 /		ph-n change
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase B Current: InstMag	Update at least
lsMHAI1\$MX\$ThdEvnA\$phsB\$instCVal\$mag\$		every 3 seconds
f		
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase B Current: Mag	Update when
lsMHAT1\$MX\$TbdEvnA\$pbsB\$cVal\$mag\$f		InstMag out of
ionnii ionno inalonno phobe coarenage i		
	0-00 (Commenting boolth bit E), 0-40	deadband Dead an la
IEC6185USRVMeas/	0x00 (Comm runtime nearth, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdEvnA\$phsB\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdEvnA\$phsB\$t		either "Mag" or
		"d" from whatever
		q IIOm whatever
TROCI 0500000000000000000000000000000000000		ph-n change
IEC6185USRVMeas/	5 Seconds THD (EVEN) Phase C Current: InstMag	update at least
lsMHAI1\$MX\$ThdEvnA\$phsC\$instCVal\$mag\$		every 3 seconds
f		
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase C Current: Mag	Update when
lsMHAI1\$MX\$ThdEvnA\$phsC\$cVal\$mag\$f		InstMag out of
		doadband
TEC61850SBVMeas/	0x00 (Comm runtime health bit 5) · 0x40	Read only
ILCOIDJUSKVMEAS/	0x00 (Commi functime meater, Dic 3), 0x40	Read Only.
lsMHAIl\$MX\$ThdEvnA\$phsC\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdEvnA\$phsC\$t		either "Mag" or
-		"q" from whatever
		-1 From whatever
TEC61950SRIMODS /	3 soconds TUD (EVEN) Phase A N Voltage, Trating	Indate at least
TECOTOJUSKVMEdS/	5 Seconds InD (EVEN) FILASE A-N VOILage: INSTMAG	opuale at least
<pre>LSMHAI1\$MX\$ThdEvnPhV\$phsA\$instCVal\$ma</pre>		every 3 seconds
g\$f		
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase A-N Voltage: Mag	Update when
lsMHAI1\$MX\$ThdEvnPhV\$phsA\$cVal\$maq\$f		InstMag out of
		deadband
TEC61850SBVMeas/	0x00 (Comm runtime health, bit 5): 0x40	Read only
	(=======)	Demulated but
TEMUATTÉMYÉTUGENDENÉÉDUSAÉd	(otherwise)	ropulated when
		server is up
IEC61850SRVMeas/	Meter timestamp (UTC since 01/01/1970 00:00:00)	Update when
lsMHAI1\$MX\$ThdEvnPhV\$phsA\$t		either "Mag" or
-		"q" from whatever
		The property of the property o
TECG1950CDVMoc = /	2 appanda mun (EVEN) phane n M Malasse Tasti	Undata at lassi
ILCOISSUSRVMeas/	S SECONDS THD (EVEN) PNASE B-N VOLTAGE: INSTMAG	update at least
lsMHAI1\$MX\$ThdEvnPhV\$phsB\$instCVal\$ma		every 3 seconds
g\$f		
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase B-N Voltage: Mag	Update when
lsMHAI1\$MX\$ThdEvnPhV\$phsB\$cVal\$mag\$f		InstMag out of
		doodbord
		ueadband



IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdEvnPhV\$phsB\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAT1\$MX\$ThdEvnPhV\$phsB\$t	-	either "Mag" or
		"d" from whatever
TEC61850SRVMeas/	3 seconds THD (EVEN) Phase C-N Voltage: InstMag	Undate at least
amua 11 śwyśmb dzwp Dbuśp backi patowal śwa	5 Seconds THE (EVEN) THASE C N VOICage. THSCHag	opeare at reast
ISMHAIIŞMXŞTNDEVNPNVŞPNSCŞINSCCVAIŞMA		every 3 seconds
g\$i	2 seconds mup (DUDN) Phase ( N Weltons, Mer	The data and an
LECOIOJOSKVMEdS/	5 Seconds IND (EVEN) Phase C=N Voltage: Mag	
ISMHAIIŞMXŞThdEvnPhVŞphSCŞcValşmagşi		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdEvnPhV\$phsC\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdEvnPhV\$phsC\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase A-B Voltage: InstMag	Update at least
lsMHAT1\$MX\$ThdEvnPPV\$phsAB\$instCVal\$m		- every 3 seconds
agef		every 5 seconds
TEC61850SRVMeas/	3 seconds THD (EVEN) Phase A-R Voltage: Mag	Undate when
		Thet Mag out of
ISMMAII \$MA\$INGEVNPPV\$PNSAB\$CVal\$mag\$1		INSEMAG OUL OI
	0.00 (Comm muntime boolth bit 5), 0.40	deadband
IEC61850SRVMedS/	0x00 (Comm runtime nearth, bit 5); 0x40	Read Only.
lsMHAIl\$MX\$ThdEvnPPV\$phsAB\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdEvnPPV\$phsAB\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase B-C Voltage: InstMag	Update at least
lsMHAI1\$MX\$ThdEvnPPV\$phsBC\$instCVal\$m		every 3 seconds
adşt		-
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase B-C Voltage: Mag	Update when
lsMHAI1\$MX\$ThdEvnPPV\$phsBC\$cVal\$mag\$f		InstMag out of
		doadband
TEC61850SBVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
leMHAIlŚMYŚTDdEwnDDWŚnbeBCŚc	(otherwise)	Ropulated when
T SMIRT CMRC THORAN FE A SDISPER	(OCHEIWISE)	roputaced when
TECC18E0CDVMcccc/	Meter timestamp (and note 1 heley)	Server 15 up
IEC010JUSKVMedS/	Meter timestamp (see note i below)	opdate when
ISMHAIIŞMXŞThdEvnPPVŞphsBCŞt		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase C-A Voltage: InstMag	Update at least
lsMHAI1\$MX\$ThdEvnPPV\$phsCA\$instCVal\$m		every 3 seconds
ag\$f		
IEC61850SRVMeas/	3 seconds THD (EVEN) Phase C-A Voltage: Mag	Update when
lsMHAI1\$MX\$ThdEvnPPV\$phsCA\$cVal\$maq\$f		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdEvnPPV\$phsCA\$a	(otherwise)	- Populated when
		server is up
TEC61850SBVMeas/	Meter timestamp (see note 1 below)	Update when
leMHAT1\$MY\$ThdEwnDDW\$~hcCA\$+		either "Mag" or
ISMMAII \$MA\$INGEVNPPV\$PNSCA\$C		either Mag or
		"q" irom whatever
		ph-n change
1EC61850SRVMeas/	3 seconds THD (ODD) Phase A Current: InstMag	Update at least
lsMHAI1\$MX\$ThdOddA\$phsA\$instCVal\$mag\$		every 3 seconds
f		
IEC61850SRVMeas/	3 seconds THD (ODD) Phase A Current: Mag	Update when
lsMHAI1\$MX\$ThdOddA\$phsA\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdOddA\$phsA\$q	(otherwise)	Populated when
· · · · · · · · · · · · · · · · · · ·		server is up
		PETAET TO MD



IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdOddA\$phsA\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD (ODD) Phase B Current: InstMag	Update at least
lsMHAI1\$MX\$ThdOddA\$phsB\$instCVal\$mag\$		every 3 seconds
f		
IEC61850SRVMeas/	3 seconds THD (ODD) Phase B Current: Mag	Update when
lsMHAI1\$MX\$ThdOddA\$phsB\$cVal\$mag\$f		InstMag out of
		deadband
LEC6185USRVMeas/	(ctherwise)	Read only.
ISMHAIIŞMXŞTNAOddAşphSBşq	(otherwise)	Populated when
TEC61850SBVMeas/	Meter timestamp (see note 1 below)	Server 15 up Undate when
lsMHAT1\$MX\$ThdOddA\$phsB\$t	10001 01.0000amp (000 1000 1 2010m)	either "Mag" or
		"a" from whatever
		ph-n_change
IEC61850SRVMeas/	3 seconds THD (ODD) Phase C Current: InstMag	Update at least
lsMHAI1\$MX\$ThdOddA\$phsC\$instCVal\$mag\$		every 3 seconds
f		_
IEC61850SRVMeas/	3 seconds THD (ODD) Phase C Current: Mag	Update when
lsMHAI1\$MX\$ThdOddA\$phsC\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40 (otherwise)	READ ONLY. POPULATED
lsMHAI1\$MX\$ThdOddA\$phsC\$q		WHEN SERVER IS UP
LEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
ISMHAIIŞMXŞThdOddAşphsCŞt		either "Mag" or
		"q" from whatever
TEC61850SBVMoos /	3 soconds THD (ODD) Phase A-N Veltage: InstMag	ph-n change
LeMUATIŚWYŚTHOOddPhuśpheaśinetCualśma	5 Seconds IRD (ODD) Phase A-N Voltage: Instmag	opoale al least
		every 5 seconds
IEC61850SRVMeas/	3 seconds THD (ODD) Phase A-N Voltage: Mag	Update when
lsMHAI1SMX\$ThdOddPhV\$phsA\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdOddPhV\$phsA\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdOddPhV\$phsA\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD (ODD) Phase B-N Voltage: InstMag	Update at least
lsMHAI1\$MX\$ThdOddPhV\$phsB\$instCVal\$ma		every 3 seconds
gŞİ TEC61850SBVMons/	3 soconds THD (ODD) Phase P-N Veltage: Mag	Undate when
leMHAI1\$MY\$ThdOddPhV\$pheB\$cVal\$mag\$f	5 Seconds The (ODE) Thase E N Vortage. Mag	InstMag out of
		doodbood
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdOddPhV\$phsB\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdOddPhV\$phsB\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD (ODD) Phase C-N Voltage: InstMag	Update at least
lsMHAI1\$MX\$ThdOddPhV\$phsC\$instCVal\$ma		every 3 seconds
g\$f		The data and the
	א א א א א א א א א א א א א א א א א א א	update when
<pre>tsmnAttsmxstndOddPnvspnsC\$cVal\$mag\$1</pre>		instmag out of
TEC61850SRVMeas/	$0 \times 00$ (Comm runtime health, bit 5) · $0 \times 40$	Read only
lsMHAI1\$MX\$ThdOddPhV\$phsC\$g	(otherwise)	Populated when
,,,,,,,		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdOddPhV\$phsC\$t		either "Mag" or
		"q" from whatever
		ph-n change



TEC61850SBVMeas/	3 seconds THD (ODD) Phase A-B Voltage: InstMag	Update at least
leMUAT1 ŚWYŚT bdodd DDWŚc be ADŚinet (Wellśm	5 Seconds THE (SEE) Thase is B vortage. Theshag	overv 2 cocordo
ISMAAIIŞMAŞIIIQOQQPPVŞDIISABŞIIISCCVAIŞII		every 5 seconds
ag\$1		
IEC6185USRVMeas/	3 seconds THD (ODD) Phase A-B Voltage: Mag	Update when
lsMHAI1\$MX\$ThdOddPPV\$phsAB\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdOddPPV\$phsAB\$q	(otherwise)	Populated when
		server is up
TEC61850SBVMeas/	Meter timestamp (see note 1 below)	Update when
	Here incorrection (000 Here i Seren)	oither "Mag" er
1 SMIAT LONKO THOODOLE VODHSABOC		eichei Mag Oi
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD (ODD) Phase B-C Voltage: InstMag	Update at least
lsMHAI1\$MX\$ThdOddPPV\$phsBC\$instCVal\$m		every 3 seconds
ag\$f		
IEC61850SRVMeas/	3 seconds THD (ODD) Phase B-C Voltage: Mag	Update when
lsMHAT1\$MX\$ThdOddPPV\$phsBC\$cVal\$mag\$f		InstMag out of
10111111111111111111111111111111111111		doodbond
TECC1950CDIMODO/	Ouron (Comm muntime health bit E), Ouron	deadband Read only
IEC010JUSRVMeas/	0x00 (Commi functime meatin, bit 5); 0x40	Read only.
1SMHA11\$MX\$ThdOddPPV\$phsBC\$q	(otnerwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdOddPPV\$phsBC\$t		either "Mag" or
_		"q" from whatever
		ph-n change
TEC61850SBVMeas/	3 seconds THD (ODD) Phase C-A Voltage: InstMag	Undate at least
	5 Seconds The (ODE) Thase C R Voltage. This hag	opdate at reast
ISMHAIIŞMXŞThdOddPPVŞphsCAŞinstCValşm		every 3 seconds
ag\$f		
IEC61850SRVMeas/	3 seconds THD (ODD) Phase C-A Voltage: Mag	Update when
lsMHAI1\$MX\$ThdOddPPV\$phsCA\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdOddPPV\$phsCA\$g	(otherwise)	Populated when
Tormiti Tituri Tugoggi Titi buoonti d	(00110111100)	sorvor is up
TEC61850SBVMODS/	Meter timestamp (see note 1 helew)	Update when
	Meter timestamp (see note i berow)	opuace when
ISMHAIIŞMXŞThdOddPPVŞphsCAŞt		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD Phase A-N Voltage: InstMag	Update at least
lsMHAI1\$MX\$ThdPhV\$phsA\$instCVal\$maq\$f		every 3 seconds
IEC61850SRVMeas/	3 seconds THD Phase A-N Voltage: Mag	Update when
lsMHAT1\$MX\$ThdPhV\$phsA\$cVal\$mag\$f		InstMag out of
10111111111111111111111111111111111111		
TECCI 950 CDIMODO /	Ouron (Comm muntime health bit E). Ouron	deadband Read only
	(allow loc)	Read Only.
15MHA11>MX>TNdPhV\$phsA\$q	(otherwise)	ropulated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdPhV\$phsA\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD Phase B-N Voltage: InstMag	Update at least
lsMHAT1\$MX\$ThdPhV\$pheR\$ipetCVal\$magef		every 3 seconds
TEC61850SRVMeas/	3 seconds THD Phase B-N Voltage: Mag	Undate when
	o cocondo ind indici din voicage. May	That Mag sut of
TermetténvétudrukébuspéGATémadéi		Instrag out OI
T=0(1)(5)(0)(1)(1)		deadband
1EC61850SRVMeas/	UXUU (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdPhV\$phsB\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdPhV\$phsB\$t		either "Mag" or
		"a" from whatowor
		y rrom whatever
TECC1950CDUMODO/	2 accords THD Darso C N Voltages TratMar	pn-n cnange
ILCOI0JUSKVMeas/	5 Seconds THD Phase C-N Voltage: InstMag	opdate at least
lsMHAI1\$MX\$ThdPhV\$phsC\$instCVal\$mag\$f		every 3 seconds
IEC61850SRVMeas/	3 seconds THD Phase C-N Voltage: Mag	Update when
lsMHAI1\$MX\$ThdPhV\$phsC\$cVal\$mag\$f		InstMag out of
		deadband
	·	



IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdPhV\$phsC\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdPhV\$phsC\$t		either "Mag" or
		"q" from whatever
		ph-n change
IEC61850SRVMeas/	3 seconds THD Phase A-B Voltage: InstMag	Update at least
lsMHAI1\$MX\$ThdPPV\$phsAB\$instCVal\$mag\$		every 3 seconds
f		
IEC61850SRVMeas/	3 seconds THD Phase A-B Voltage: Mag	Update when
lsMHAI1\$MX\$ThdPPV\$phsAB\$cVal\$mag\$f		InstMag out of
		deadband
IEC61850SRVMeas/	0x00 (Comm runtime health, bit 5); 0x40	Read only.
lsMHAI1\$MX\$ThdPPV\$phsAB\$q	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1 below)	Update when
lsMHAI1\$MX\$ThdPPV\$phsAB\$t		either "Mag" or
		"q" from whatever
TRAC10500000000000000000000000000000000000		ph-n change
IEC6185USRVMeas/	3 seconds THD Phase B-C Voltage: InstMag	Update at least
lsMHAI1\$MX\$ThdPPV\$phsBC\$instCVal\$mag\$		every 3 seconds
Í IECG1850CDUMODO/	2 geograda WID Dhago D C Valtarra Mar	Undata utar
LECOLOSUSKVMERS/	5 Seconds THD Phase B-C Voltage: Mag	update when
lsMHAI1\$MX\$ThdPPV\$phsBC\$cVal\$mag\$f		InstMag out of
TECC1950CDVMcccc/	0.000 (Comm muntime beelth bit 5). 0.40	deadband Bood only
LECTIONSKYMEAS/	(comm runtime nearch, bit 5); 0x40	Read only.
ISMHAIIŞMXŞThdPPVŞphsBCŞq	(otherwise)	Populated when
	Matau timatawa (asa mata 1 kalaw)	server is up
Lever Tierren in Drie in Deer	Meter timestamp (see note i below)	update when
ISMHAIIŞMXŞThdPPVŞphsBCŞt		either "Mag" or
		"q" from whatever
	2 conside WUD Dhans ( A Walters, TratMan	ph-n change
LECOLOSUSKVMEds/	5 Seconds THD Phase C-A Voltage: InstMag	opdate at least
ISMHAIIŞMXŞTNOPPVŞpnSCAŞinstCvalşmagş		every 3 seconds
I IEC61850SRVMeas/	3 seconds THD Phase C-A Voltage: Mag	Undate when
LeMUAT1 \$MY \$TbdDDU\$pbcCA\$cVal \$mag\$f	5 Seconds find finase C A Voitage. Mag	InstMag out of
ISMIAIIQMAQIIIGEEVQDISCAQCVAIQMAGQI		deedbeed
TEC61850SRVMeas/	0x00 (Comm runtime health bit 5) · 0x40	Bead only
lsMHAI1\$MX\$ThdPPV\$phsCA\$g	(otherwise)	Populated when
Toumittéiné tugi Léépisoné d	(otherwise)	sorver is up
TEC61850SBVMeas/	Meter timestamp (see note 1 below)	Update when
IsMHAIIŚMXŚThdPPVŚnhsCAŚt		either "Mag" or
10mmillenne mar i vepnoone c		"g" from whatever
		q IIOM WHALEVEL
	1	pii-ii clialige
IEC61850SRVMeas/	Device profile: TDD maximum demand reference	Populated when
lsMHAI1\$SP\$NomA\$setMag\$f	value (Current)	server is up
IEC61850SRVMeas/lsMHAI1\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/lsMHAI1\$ST\$Beh\$stVal	1 = "ON"	Read only.
		Constant
IEC61850SRVMeas/lsMHAI1\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
1EC61850SRVMeas/1sMHAI1\$ST\$Health\$q	UXUU (Comm runtime health); 0x40 (Comm runtime	Populated when
TECC1950CDIMODO/	not health)	server is up
LECUISJUSKVMeds/	r (Comm runtime nearth); 2 (Comm runtime not	ropulated when
ISMHAIIŞSTŞHealthşstVal	Meter timestamp (see noto 1 2 3 bolow)	Server 1s up Populated when
IECOIOJUSKVMEdS/ISMHAIIŞSTŞHEdIÜNŞÜ	Meter timestamp (see note 1,2,3 Derow)	roputated when
TEC61850SRVMeas/lsMHAT1\$ST\$Mod\$g	0x00 (Comm runtime health): 0x40 (Comm runtime	Populated when
12001000000000000000000000000000000000	not health)	server is up
IEC61850SRVMeas/lsMHAT1SSTSModSstVal	1 = "ON"	Read only.
		Constant
IEC61850SRVMeas/lsMHAI1\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Update when
		server is up



## 5.2.12: Logic Node: IEC61850SRVMEAS/MSQI1

OBJECT PATH	VALUE	COMMENT
	MSQI1	
IEC61850SRVMeas/1sMSQI1\$CF\$Mod\$ct1Mode1	0 = "STATUS-ONLY"	Read only.
TEC61850SRVMeas/lsMSOT1SCFSSecalSc1Sdb	Deadband = 100000 = 100%	Constant Modified by
110010000000000000000000000000000000000		client via cid
		file
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMSQI1\$CF\$SeqA\$c1\$dbAng		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqA\$c1\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqA\$c1\$rangeC\$hLim\$f		Constant
Lewcoll COECc = = = = = = = = = = = = = = = = = = =	0	Read only.
IEC61850SRVMeas/	0	Read only.
lsMSOT1\$CF\$SegA\$c1\$rangeC\$llLim\$f	°	Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqA\$c1\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	2.1*CT_RATIO (For Class 2) / 21*CT_RATIO (for	Read only.
lsMSQI1\$CF\$SeqA\$c1\$rangeC\$max\$f	Class 20)	Populated when
		server is up
IEC61850SRVMeas/lsMSQI1\$CF\$SeqA\$c2\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
	$D_{22} = \frac{1}{$	file Madified bu
Lewcoll CEScord Soledbarr	Deadband = 100000 = 100%	Modified by
ISMSQII;CF;SEqA;CZ;dDAllg		file
TEC61850SRVMeas/	0	Read only.
lsMSOI1\$CF\$SegA\$c2\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqA\$c2\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqA\$c2\$rangeC\$lLim\$f		Constant
LEC6185USRVMeas/	0	Read only.
ISMSQIISCESSeqASc2SrangeCSIILimSi IEC61850SRVMeas/	0	Constant Read only
lsMSOI1\$CF\$SeqA\$c2\$rangeC\$min\$f	о О	Populated when
THEFT		server is up
IEC61850SRVMeas/	2.1*CT RATIO (For Class 2) / 21*CT RATIO (for	Read only.
lsMSQI1\$CF\$SeqA\$c2\$rangeC\$max\$f	Class 20)	Populated when
		server is up
IEC61850SRVMeas/lsMSQI1\$CF\$SeqA\$c3\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
LEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
ISMSQ11\$CF\$SeqA\$c3\$dbAng		client via .cid
TEC61850SBUMees/	0	file Read only
lsMSOIlSCESSeqASc3SrangeCSbbLimSf	Ť	Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqA\$c3\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqA\$c3\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
LSMSQI1\$CF\$SeqA\$c3\$rangeC\$llLim\$f		Constant Read only
Lewoni 1 Corseage calsassassasses	·	Reau UILY.
TEMPOTIACESEAMACOSIGUGECSUITUSI		sorver is wr
IEC61850SRVMeas/	2.1*CT RATIO (For Class 2) / 21*CT RATIO (for	Read only.
lsMSOI1\$CF\$SegA\$c3\$rangeC\$max\$f	Class 20)	Populated when
		server is up
IEC61850SRVMeas/lsMSQI1\$CF\$SeqV\$c1\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file



IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMSQI1\$CF\$SeqV\$c1\$dbAng		client via .cid
		file
IEC61850SRVMeas/	0	Read only.
lsMSOI1\$CF\$SegV\$c1\$rangeC\$hhLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SegV\$c1\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SegV\$c1\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSOI1\$CF\$SegV\$c1\$rangeC\$llLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqV\$c1\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	720*PT RATIO	Read only.
lsMSOI1\$CF\$SeqV\$c1\$rangeC\$max\$f	-	Populated when
1011021110110040101111019001		sorvor is up
IEC61850SRVMeas/lsMSOI1\$CF\$SeqV\$c2\$db	Deadband = 100000 = 100%	Modified by
110010000000000000000000000000000000000		aliont with aid
		cilent via .ciu
TECC1950CDUMPER /	$P_{0,0}$	Ille Madified by
	Deamain - 100000 - 100%	Plant min sin
TRW9ATT\$CE\$Red^\$C7\$qpyud		cilent via .cid
TROCIDE 000000 /		file
IEC6185USRVMeas/	U	kead only.
lsMSQI1\$CF\$SeqV\$c2\$rangeC\$hhLim\$f		Constant
1EC61850SRVMeas/	U	Read only.
lsMSQI1\$CF\$SeqV\$c2\$rangeC\$hLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqV\$c2\$rangeC\$lLim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqV\$c2\$rangeC\$11Lim\$f		Constant
IEC61850SRVMeas/	0	Read only.
lsMSQI1\$CF\$SeqV\$c2\$rangeC\$min\$f		Populated when
		server is up
IEC61850SRVMeas/	720*CT_RATIO	Read only.
lsMSQI1\$CF\$SeqV\$c2\$rangeC\$max\$f		Populated when
		server is up
IEC61850SRVMeas/lsMSQI1\$CF\$SeqV\$c3\$db	Deadband = 100000 = 100%	Modified by
		client via .cid
		file
IEC61850SRVMeas/	Deadband = 100000 = 100%	Modified by
lsMSOT1\$CF\$SeqV\$c3\$dbAng		client via .cid
101102110010004000000		filo
TEC61850SRVMeas/	0	Read only
LeMSOII SCESSogUS a Strango Cshbi imsf	Ŭ,	Constant
IEC61850SRVMeas/	0	Read only
leMeoti śczęścogyśczęśrangoceht imef	Ŭ,	Constant
TEC61850SRVMeas/	0	Read only
		Constant
TEC61850SRVMeas/	0	Read only
leMSOIISCESSeqUSe3SrangoCSllIiimSf	Ť	Constant
TEC61850SRVMeas/	0	Read only
laMent190F99eaguea3eranaceminef	Ť	Bopulated when
TPMPÄTTSCESPEdASCSSLUNGECSWIUSI		roputated when
TECS1950SDUMODS/	720*00 00000	server is up
	/20"CI_RAIIO	Read Only.
15M5Q11\$CF\$SeqV\$c3\$rangeC\$max\$f		ropulated when
		server is up
IEC61850SRVMeas/lsMSQI1\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant.
IEC61850SRVMeas/lsMSOI1\$DC\$Health\$d	"1=OK, 2=WARNING, 3=ALARM"	Read only.
		Constant
IEC61850SRVMeas/lsMSOI1\$DC\$Mod\$d	"OPERATING MODE"	Read only.
···· ··· · · · · · · · · · · · · · · ·		Constant
IEC61850SRVMeas/lsMSOT1\$DC\$NamPlt\$d	"LOGICAL NODE NAMEPLATE"	Read only.
		Constant
IEC61850SRVMeas/lsMSOT1\$DC\$NamPlt\$swRev	Comm runtime version	Read only.
		Constant
TEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only
laMSOI1 \$DC\$NamD1 + \$ttosday		Constant
TPHPÄTTSDCSNGIILTCSAGUOOL		CUIISLAIIL



IEC61850SRVMeas/lsMSQI1\$DC\$SeqA\$c1\$d	"POSITIVE SEQUENCE"	Read only.
		Constant
IEC010505RVMeas/ISMSQ115DC55eqA5C25d	"NEGATIVE SEQUENCE"	Read only.
IEC61850SRVMeas/lsMSOI1\$DC\$SeqA\$c3\$d	"ZERO SEOUENCE"	Read only.
		Constant
IEC61850SRVMeas/lsMSQI1\$DC\$SeqA\$d	"SYMM. COMP. MAG/ANG PH-N CURRENT"	Read only.
		Constant
IEC61850SRVMeas/1sMSQI1\$DC\$SeqV\$c1\$d	"POSITIVE SEQUENCE"	Read only.
TEC61850SRUMeas/lemsoIl\$DC\$SecU\$c2\$d	"NECATIVE SECUENCE"	Constant Read only
THEOTOSOBRAMERS/ISHOQIIQDEQUEQUE2QU	NEGATIVE SEQUENCE	Constant
IEC61850SRVMeas/lsMSQI1\$DC\$SeqV\$c3\$d	"ZERO SEQUENCE"	Read only.
		Constant
IEC61850SRVMeas/1sMSQI1\$DC\$SeqV\$d	"SYMM. COMP. MAG/ANG PH-N VOLTAGE"	Read only.
		Constant
IEC61850SRVMeas/	3 seconds symm. comp. MAG PH-N Current (+ seq):	Update at least
lsMSQI1\$MX\$SeqA\$c1\$instCVal\$mag\$f	InstMag	every 3 seconds
leMSOI1\$MX\$Secl\$cl\$inetCVal\$anc\$f	ThetMag	every 3 seconds
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Current (+ seq):	Update when
lsMSQI1\$MX\$SeqA\$c1\$cVal\$mag\$f	Mag	InstMag out of
		deadband
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Current (+ seq):	Update when
lsMSQI1\$MX\$SeqA\$c1\$cVal\$ang\$f	Mag	InstMag out of
		deadband
IEC61850SRVMeas/IsMSQ11\$MX\$SeqA\$c1\$q	0x00 (Comm runtime health, bit 5); 0x40	Read only.
	(otherwise)	Populated when
IEC61850SRVMeas/1sMSOI1\$MX\$SeqA\$c1\$t	Meter timestamp (see note 1 below)	Update when
		either "Mag" or
		"q" from
		whatever phase
		change
IEC61850SRVMeas/	3 seconds symm. comp. MAG PH-N Current (- seq):	Update at least
lsMSQI1\$MX\$SeqA\$c2\$instCVal\$mag\$f	InstMag	every 3 seconds
lsMSOI1\$MX\$SeqA\$c2\$instCVal\$ang\$f	InstMag	every 3 seconds
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Current (- seq):	Update when
lsMSQI1\$MX\$SeqA\$c2\$cVal\$mag\$f	Mag	InstMag out of
		deadband
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Current (- seq):	Update when
lsMSQI1\$MX\$SeqA\$c2\$cVal\$ang\$f	Mag	InstMag out of
	Ov00 (Comm runtime health bit 5), 0440	deadband Read only
TECOTODORAHEGS/TSHSATTAHVASAdWACC3d	(otherwise)	Populated when
	(**************************************	server is up
IEC61850SRVMeas/lsMSQI1\$MX\$SeqA\$c2\$t	Meter timestamp (see note 1 below)	Update when
		either "Mag" or
		"q" from
		whatever phase
		change
LEC61850SRVMeas/	3 seconds symm. comp. MAG PH-N Current (0 seq):	Update at least
ISMSQIIŞMXŞSEqAşC3şinstCValşmagşi IEC61850SRVMeas/	3 seconds symm, comp. MAG PH-N Current (0 sec).	Update at least
lsMSOI1\$MX\$SegA\$c3\$instCVal\$ang\$f	InstMag	every 3 seconds
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Current (0 seq):	Update when
lsMSQI1\$MX\$SeqA\$c3\$cVal\$maq\$f		Track Management of
	Mag	InstMag out of
· · · · · · · · · · · · · · · · · · ·	Mag	deadband
IEC61850SRVMeas/	Mag 3 seconds symm. comp. ANG PH-N Current (0 seq):	deadband Update when
IEC61850SRVMeas/ lsMSQI1\$MX\$SeqA\$c3\$cVal\$ang\$f	Mag 3 seconds symm. comp. ANG PH-N Current (0 seq): Mag	deadband Update when InstMag out of
IEC61850SRVMeas/ lsMSQI1\$MX\$SeqA\$c3\$cVal\$ang\$f	Mag 3 seconds symm. comp. ANG PH-N Current (0 seq): Mag 0x00 (Comm runtime health bit 5): 0x40	deadband Update when InstMag out of deadband Read only
IEC61850SRVMeas/ lsMSQI1\$MX\$SeqA\$c3\$cVal\$ang\$f IEC61850SRVMeas/lsMSQI1\$MX\$SeqA\$c3\$q	Mag 3 seconds symm. comp. ANG PH-N Current (0 seq): Mag 0x00 (Comm runtime health, bit 5); 0x40 (otherwise)	deadband Update when InstMag out of deadband Read only. Populated when
IEC61850SRVMeas/ lsMSQI1\$MX\$SeqA\$c3\$cVal\$ang\$f IEC61850SRVMeas/lsMSQI1\$MX\$SeqA\$c3\$q	Mag 3 seconds symm. comp. ANG PH-N Current (0 seq): Mag 0x00 (Comm runtime health, bit 5); 0x40 (otherwise)	linstMag out of deadband Update when InstMag out of deadband Read only. Populated when server is up



IEC61850SRVMeas/lsMSQI1\$MX\$SeqA\$c3\$t	Meter timestamp (see note 1 below)	Update when
		either "Mag" or
		"q" from
		whatever phase
		change
IEC010505RVMeas/ISM5Q113MX35eqA3seqT	0 = POS-NEG-ZERO	Read only.
TEC61850SRVMeas/	3 seconds symm, comp. MAG PH-N Voltage (+ seg):	Update at least
lsMSOI1\$MX\$SegV\$c1\$instCVal\$mag\$f	InstMag	every 3 seconds
IEC61850SRVMeas/	3 seconds symm. comp. MAG PH-N Voltage (+ seq):	Update at least
lsMSQI1\$MX\$SeqV\$c1\$instCVal\$ang\$f	InstMag	every 3 seconds
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Voltage (+ seq):	Update when
lsMSQI1\$MX\$SeqV\$c1\$cVal\$mag\$f	Mag	InstMag out of
TECC1950CDUMPER/	2 cocordo cummo compo NIC DI N Voltago (Loog).	deadband
LeMSOII SMYSSoguSal Squal SangSf	Mag	InstMag out of
13M50110MA056400010000100000	riag	deadband
IEC61850SRVMeas/lsMSQI1\$MX\$SeqV\$c1\$q	0x00 (Comm runtime health, bit 5); 0x40	Read only.
	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/1sMSQI1\$MX\$SeqV\$c1\$t	Meter timestamp (see note 1 below)	Update when
		either "Mag" or
		"q" from
		whatever phase
	2 concerts come MAC DIL N Vieltone ( com)	change
LECUIDJUSKVMERS/	5 Seconds Symm. comp. MAG PH-N Voltage (- seq):	every 3 seconds
IEC61850SRVMeas/	3 seconds symm. comp. MAG PH-N Voltage (- seg):	Update at least
lsMSQI1\$MX\$SeqV\$c23\$instCVal\$ang\$f	InstMag	every 3 seconds
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Voltage (- seq):	Update when
lsMSQI1\$MX\$SeqV\$c2\$cVal\$mag\$f	Mag	InstMag out of
		deadband
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Voltage (- seq):	Update when
lsMSQI1\$MX\$SeqV\$c2\$cVal\$ang\$f	Mag	InstMag out of
TEC61850SRVMeas/lsMSOT1\$MX\$SeqV\$c2\$q	0x00 (Comm runtime health, bit 5): 0x40	deadband Read only
120010000000000000000000000000000000000	(otherwise)	Populated when
		server is up
IEC61850SRVMeas/lsMSQI1\$MX\$SeqV\$c2\$t	Meter timestamp (see note 1 below)	Update when
		either "Mag" or
		"q" from
		whatever phase
· · · · · · · · · · · · · · · · · · ·		change
IEC61850SRVMeas/	3 seconds symm. comp. MAG PH-N Voltage (0 seq):	Update at least
IsMSQI1\$MX\$SeqV\$c3\$instCVa1\$mag\$t IEC61850SRVMeas/	InstMag 3 seconds symm comp MAG PH-N Voltage (0 seg):	every 3 seconds Undate at least
lsMSOI1\$MX\$SegV\$c3\$instCVal\$ang\$f	InstMag	every 3 seconds
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Voltage (0 seq):	Update when
lsMSQI1\$MX\$SeqV\$c3\$cVal\$mag\$f	Mag	InstMag out of
		deadband
IEC61850SRVMeas/	3 seconds symm. comp. ANG PH-N Voltage (0 seq):	Update when
lsMSQI1\$MX\$SeqV\$c3\$cVal\$ang\$f	Mag	InstMag out of
TEC61850SRVMeas/lsMSOT1SMVSSocVSc25c	0x00 (Comm runtime health bit 5), 0x40	deadband Read only
TTCOTOOONAMERS/TOMOOTTAMVADEdAAACOAd	(otherwise)	Populated when
	(001101#150)	server is up
IEC61850SRVMeas/lsMSQI1\$MX\$SeqV\$c3\$t	Meter timestamp (see note 1 below)	Update when
		either "Mag" or
		"q" from
		whatever phase
		change
IEC61850SRVMeas/lsMSQI1\$MX\$SeqV\$seqT	0 = "POS-NEG-ZERO"	Read only.
		Constant
IEC61850SRVMeas/1sMSQI1\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
ILCOIDJUSKVMEAS/ISMSQIIŞSTŞBENŞSTVAL		
		Constant



IEC61850SRVMeas/lsMSQI1\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/lsMSQI1\$ST\$Health\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/lsMSQI1\$ST\$Health\$stVal	1 (Comm runtime health); 2 (Comm runtime not	Populated when
	health)	server is up
IEC61850SRVMeas/lsMSQI1\$ST\$Health\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/lsMSQI1\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/lsMSQI1\$ST\$Mod\$stVal	1 = "ON"	Read only.
		Constant
IEC61850SRVMeas/lsMSQI1\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up

# 5.2.13: Logic Node: IEC61850SRVMEAS/TCTR1

OBJECT PATH	VALUE	COMMENT	
TCTR1			
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.	
ctrtanTCTR1\$CF\$Mod\$ct1Mode1		Constant	
IEC61850SRVMeas/	"OPERATING MODE BEHAVIOR"	Read only.	
ctrtanTCTR1\$DC\$Beh\$d		Constant	
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.	
ctrtanTCTR1\$DC\$Health\$d		Constant	
IEC61850SRVMeas/	"OPERATING MODE"	Read only.	
ctrtanTCTR1\$DC\$Mod\$d		Constant	
IEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only.	
ctrtanTCTR1\$DC\$NamPlt\$d		Constant	
IEC61850SRVMeas/	Comm runtime version	Read only.	
ctrtanTCTR1\$DC\$NamPlt\$swRev		Constant	
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.	
ctrtanTCTR1\$DC\$NamPlt\$vendor		Constant	
IEC61850SRVMeas/	"CT RATIO PHASE A"	Read only.	
ctrtanTCTR1\$DC\$Rat\$d		Constant	
TEC61850SBVMeas/	Device profile setting: CT Batio IA B C	Populated when	
at at an mCmp1 SCDSDat Soat MagSf	bevice profile becchig. of Adelo 11, b, c	roputated when	
CEICAIIICIRIŞSPŞRatşSetMagşi		server is up	
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when	
ctrtanTCTR1\$ST\$Beh\$q	not health)	server is up	
IEC61850SRVMeas/	1 = "ON"	Read only.	
ctrtanTCTR1\$ST\$Beh\$stVal		Constant	
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when	
ctrtanTCTR1\$ST\$Beh\$t		server is up	
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when	
ctrtanTCTR1\$ST\$Health\$q	not health)	server is up	
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated when	
ctrtanTCTR1\$ST\$Health\$stVal	health)	server is up	
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when	
ctrtanTCTR1\$ST\$Health\$t		server is up	
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when	
ctrtanTCTR1\$ST\$Mod\$q	not health)	server is up	
IEC61850SRVMeas/	1 = "ON"	Read only.	
ctrtanTCTR1\$ST\$Mod\$stVal		Constant	
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when	
ctrtanTCTR1\$ST\$Mod\$t		server is up	



# 5.2.14: Logic Node: IEC61850SRVMEAS/TCTR2

OBJECT PATH	VALUE	COMMENT
	TCTR2	
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
ctrtbnTCTR2\$CF\$Mod\$ctlModel		Constant
IEC61850SRVMeas/ctrtbnTCTR2\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/ctrtbnTCTR2\$DC\$Health\$d	"1=OK, 2=WARNING, 3=ALARM"	Read only.
		Constant
IEC61850SRVMeas/ctrtbnTCTR2\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/ctrtbnTCTR2\$DC\$NamPlt\$d	"LOGICAL NODE NAMEPLATE"	Read only.
		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
ctrtbnTCTR2\$DC\$NamPlt\$swRev		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
ctrtbnTCTR2\$DC\$NamPlt\$vendor		Constant
IEC61850SRVMeas/ctrtbnTCTR2\$DC\$Rat\$d	"CT RATIO PHASE B"	Read only.
		Constant
IEC61850SRVMeas/	Device profile settings: CT Ratio IA,B,C	Populated when
ctrtbnTCTR2\$SP\$Rat\$setMag\$f		server is up
IEC61850SRVMeas/ctrtbnTCTR2\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ctrtbnTCTR2\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/ctrtbnTCTR2\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/ctrtbnTCTR2\$ST\$Health\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated when
ctrtbnTCTR2\$ST\$Health\$stVal	health)	server is up
IEC61850SRVMeas/ctrtbnTCTR2\$ST\$Health\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/ctrtbnTCTR2\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ctrtbnTCTR2\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/ctrtbnTCTR2\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up

# 5.2.15: Logic Node: IEC61850SRVMEAS/TCTR3

OBJECT PATH	VALUE	COMMENT
	TCTR3	
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
ctrtcnTCTR3\$CF\$Mod\$ct1Mode1		Constant
IEC61850SRVMeas/ctrtcnTCTR3\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.
ctrtcnTCTR3\$DC\$Health\$d		Constant
IEC61850SRVMeas/ctrtcnTCTR3\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only.
ctrtcnTCTR3\$DC\$NamPlt\$d		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
ctrtcnTCTR3\$DC\$NamPlt\$swRev		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
ctrtcnTCTR3\$DC\$NamPlt\$vendor		Constant
IEC61850SRVMeas/ctrtcnTCTR3\$DC\$Rat\$d	"CT RATIO PHASE C"	Read only.
		Constant
IEC61850SRVMeas/	Device profile settings: CT Ratio IA,B,C	Populated
ctrtcnTCTR3\$SP\$Rat\$setMag\$f		when server is
		up

IEC61850SRVMeas/ctrtcnTCTR3\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated
	not health)	when server is
		up
IEC61850SRVMeas/	1 = "ON"	Read only.
ctrtcnTCTR3\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/ctrtcnTCTR3\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated
		when server is
		up
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated
ctrtcnTCTR3\$ST\$Health\$q	not health)	when server is
		up
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated
ctrtcnTCTR3\$ST\$Health\$stVal	health)	when server is
		up
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated
ctrtcnTCTR3\$ST\$Health\$t		when server is
		up
IEC61850SRVMeas/ctrtcnTCTR3\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated
	not health)	when server is
		up
IEC61850SRVMeas/	1 = "ON"	Read only.
ctrtcnTCTR3\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/ctrtcnTCTR3\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated
		when server is
		מוו

# 5.2.16: Logic Node: IEC61850SRVMEAS/TCTR4

OBJECT PATH	VALUE TCTR4	COMMENT
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
ctrtnnTCTR4\$CF\$Mod\$ctlModel		Constant
IEC61850SRVMeas/ctrtnnTCTR4\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/ctrtnnTCTR4\$DC\$Health\$d	"1=OK, 2=WARNING, 3=ALARM"	Read only.
		Constant
IEC61850SRVMeas/ctrtnnTCTR4\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/ctrtnnTCTR4\$DC\$NamPlt\$d	"LOGICAL NODE NAMEPLATE"	Read only.
		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
ctrtnnTCTR4\$DC\$NamPlt\$swRev		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
ctrtnnTCTR4\$DC\$NamPlt\$vendor		Constant
IEC61850SRVMeas/ctrtnnTCTR4\$DC\$Rat\$d	"CT RATIO NEUTRAL"	Read only.
		Constant
IEC61850SRVMeas/	Device profile settings: CT Ratio IN	Populated when
ctrtnnTCTR4\$SP\$Rat\$setMag\$f		server is up
IEC61850SRVMeas/ctrtnnTCTR4\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ctrtnnTCTR4\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/ctrtnnTCTR4\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/ctrtnnTCTR4\$ST\$Health\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated when
ctrtnnTCTR4\$ST\$Health\$stVal	health)	server is up
IEC61850SRVMeas/ctrtnnTCTR4\$ST\$Health\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/ctrtnnTCTR4\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ctrtnnTCTR4\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/ctrtnnTCTR4\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up



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# 5.2.17: Logic Node: IEC61850SRVMEAS/TVTR1

OBJECT PATH	VALUE	COMMENT
	TVTR1	
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
ptrtanTVTR1\$CF\$Mod\$ct1Mode1		Constant
IEC61850SRVMeas/ptrtanTVTR1\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.
ptrtanTVTR1\$DC\$Health\$d		Constant
IEC61850SRVMeas/ptrtanTVTR1\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only.
ptrtanTVTR1\$DC\$NamPlt\$d		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
ptrtanTVTR1\$DC\$NamPlt\$swRev		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
ptrtanTVTR1\$DC\$NamPlt\$vendor		Constant
IEC61850SRVMeas/ptrtanTVTR1\$DC\$Rat\$d	"PT RATIO PHASE A"	Read only.
		Constant
IEC61850SRVMeas/	Device profile settings: PT Ratio VA, B, C	Populated when
ptrtanTVTR1\$SP\$Rat\$setMag\$f		server is up
IEC61850SRVMeas/ptrtanTVTR1\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ptrtanTVTR1\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/ptrtanTVTR1\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
ptrtanTVTR1\$ST\$Health\$q	not health)	server is up
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated when
ptrtanTVTR1\$ST\$Health\$stVal	health)	server is up
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when
ptrtanTVTR1\$ST\$Health\$t		server is up
IEC61850SRVMeas/ptrtanTVTR1\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime	Populated when
	not health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ptrtanTVTR1\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/ptrtanTVTR1\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up

## 5.2.18: Logic Node: IEC61850SRVMEAS/TVTR2

OBJECT PATH	VALUE	COMMENT
	TVTR2	
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
ptrtbnTVTR2\$CF\$Mod\$ct1Mode1		Constant
	·	
IEC61850SRVMeas/ptrtbnTVTR2\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.
ptrtbnTVTR2\$DC\$Health\$d		Constant
IEC61850SRVMeas/ptrtbnTVTR2\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only.
ptrtbnTVTR2\$DC\$NamPlt\$d		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
ptrtbnTVTR2\$DC\$NamPlt\$swRev		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
ptrtbnTVTR2\$DC\$NamPlt\$vendor		Constant
IEC61850SRVMeas/ptrtbnTVTR2\$DC\$Rat\$d	"PT RATIO PHASE B"	Read only.
		Constant
IEC61850SRVMeas/	Device profile settings: PT Ratio VA,B,C	Update when
ptrtbnTVTR2\$SP\$Rat\$setMag\$f		server is up
IEC61850SRVMeas/ptrtbnTVTR2\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated when
	health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ptrtbnTVTR2\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/ptrtbnTVTR2\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated when
ptrtbnTVTR2\$ST\$Health\$q	health)	server is up
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not health)	Populated when
ptrtbnTVTR2\$ST\$Health\$stVal		server is up
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when
ptrtbnTVTR2\$ST\$Health\$t		server is up
IEC61850SRVMeas/ptrtbnTVTR2\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated when
	health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ptrtbnTVTR2\$ST\$Mod\$stVal		Constant

### 5.2.19: Logic Node: IEC61850SRVMEAS/TVTR3

OBJECT PATH	VALUE	COMMENT
	TVTR3	
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
ptrtcnTVTR3\$CF\$Mod\$ct1Mode1		Constant
IEC61850SRVMeas/ptrtcnTVTR3\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
		Constant
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.
ptrtcnTVTR3\$DC\$Health\$d		Constant
IEC61850SRVMeas/ptrtcnTVTR3\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only.
ptrtcnTVTR3\$DC\$NamPlt\$d		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
ptrtcnTVTR3\$DC\$NamPlt\$swRev		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
ptrtcnTVTR3\$DC\$NamPlt\$vendor		Constant
IEC61850SRVMeas/ptrtcnTVTR3\$DC\$Rat\$d	"PT RATIO PHASE C"	Read only.
		Constant
IEC61850SRVMeas/	Device profile settings: PT Ratio VA,B,C	Update when
ptrtcnTVTR3\$SP\$Rat\$setMag\$f		server is up
IEC61850SRVMeas/ptrtcnTVTR3\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated when
	health)	server is up
	·	· · ·



IEC61850SRVMeas/	1 = "ON"	Read only.
ptrtcnTVTR3\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/ptrtcnTVTR3\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated when
ptrtcnTVTR3\$ST\$Health\$q	health)	server is up
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated when
ptrtcnTVTR3\$ST\$Health\$stVal	health)	server is up
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated when
ptrtcnTVTR3\$ST\$Health\$t		server is up
IEC61850SRVMeas/ptrtcnTVTR3\$ST\$Mod\$q	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated when
	health)	server is up
IEC61850SRVMeas/	1 = "ON"	Read only.
ptrtcnTVTR3\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/ptrtcnTVTR3\$ST\$Mod\$t	Meter timestamp (see note 1,2,3 below)	Populated when
		server is up

# 5.2.20: Logic Node: IEC61850SRVMEAS/TVTR4

OBJECT PATH	VALUE	COMMENT
	TVTR4	
IEC61850SRVMeas/	0 = "STATUS-ONLY"	Read only.
ptrtaxTVTR4\$CF\$Mod\$ct1Mode1		Constant
IEC61850SRVMeas/ptrtaxTVTR4\$DC\$Beh\$d	"OPERATING MODE BEHAVIOR"	Read only.
_		Constant
IEC61850SRVMeas/	"1=OK, 2=WARNING, 3=ALARM"	Read only.
ptrtaxTVTR4\$DC\$Health\$d		Constant
IEC61850SRVMeas/ptrtaxTVTR4\$DC\$Mod\$d	"OPERATING MODE"	Read only.
		Constant
IEC61850SRVMeas/	"LOGICAL NODE NAMEPLATE"	Read only.
ptrtaxTVTR4\$DC\$NamPlt\$d		Constant
IEC61850SRVMeas/	Comm runtime version	Read only.
ptrtaxTVTR4\$DC\$NamPlt\$swRev		Constant
IEC61850SRVMeas/	"ELECTRO INDUSTRIES"	Read only.
ptrtaxTVTR4\$DC\$NamPlt\$vendor		Constant
IEC61850SRVMeas/ptrtaxTVTR4\$DC\$Rat\$d	"PT RATIO PHASE AUX"	Read only.
		Constant
IEC61850SRVMeas/	Device profile settings: PT Ratio VAUX	Populated
ptrtaxTVTR4\$SP\$Rat\$setMag\$f		when server
		is up
IEC61850SRVMeas/ptrtaxTVTR4\$ST\$Beh\$q	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated
	health)	when server
		isup
IEC61850SRVMeas/	1 = "ON"	Read only.
ptrtaxTVTR4\$ST\$Beh\$stVal		Constant
IEC61850SRVMeas/ptrtaxTVTR4\$ST\$Beh\$t	Meter timestamp (see note 1,2,3 below)	Populated
_		when server
		is up
IEC61850SRVMeas/	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated
ptrtaxTVTR4\$ST\$Health\$g	health)	when server
		isun
IEC61850SRVMeas/	1 (Comm runtime health); 2 (Comm runtime not	Populated
ptrtaxTVTR4\$ST\$Health\$stVal	health)	when server
		isup
IEC61850SRVMeas/	Meter timestamp (see note 1,2,3 below)	Populated
ptrtaxTVTR4\$ST\$Health\$t		when server
		is up
IEC61850SRVMeas/ptrtaxTVTR4\$ST\$Mod\$g	0x00 (Comm runtime health); 0x40 (Comm runtime not	Populated
	health)	when server
	,	is up
TEC61850SRVMeas/	1 = "ON"	Read only.
ptrtaxTVTR4\$ST\$Mod\$stVal		Constant
IEC61850SRVMeas/ptrtaxTVTR4\$ST\$Mod\$t	Meter timestamp (see note 1.2.3 below)	Populated
		when server
		ie up
		TO UN



#### NOTES:

- The timestamp is an UTC timestamp since epoch: 01/01/1970 00:00:00.
- The timestamp fraction of seconds currently is equal to zero and the quality bits should be equal to "00100111" (LeapSecondKnown(L)=0; ClockFailure(F)=0; ClockNotSynchronized(N)=1; TimeAccuracyOfFractionsOfSeconds = 00111).
- The startup timestamp is few seconds later than meter "onTime."

#### **5.3: Additional Information**

The following sections explain some of the terms, and additional aspects, of the Nexus® 1500+ meter's IEC 61850 implementation.

#### 5.3.1: Dataset

The Nexus® 1500+ IEC 61850 server supports dataset, which is a collection of references of either data object or data attribute, or both, from the same or different logic node (LN). The server just allows creation/deletion of datasets via IED configurator software. There are no pre-defined datasets, therefore the user is allowed to configure up to 32 datasets with a maximum number of 256 items (data attribute) in each.

#### 5.3.2: Report

The server supports event-driven exchange of information from the server to one connected client, also known as a report. The event is the condition for when to send the report, based on the client's trigger option: data change, interval (Integrity), and request (General Interrogation - GI); and/or event buffer time. The exchanged information contains, among others things, a set of data (data attribute) values referenced by a dataset that is monitored by the server.

When and how the report is sent to one client is established by a report control block (RCB). Instances of RCB are configured via IED configurator software. Only one client at a time can "own" that instance when it is connected to the server. Up to 32 report control blocks are supported.

The following table shows all RBC parameters retrievable by a client. Some of them are set at configuration time only, others online only, and others in both conditions. There are two types of RCB: buffered (BRCB) and unbuffered (URCB).

#### • BRCB

Reports are immediately sent to the connected client based on trigger options: data change, interval (Integrity), and request (General Interrogation - GI). For the data change trigger option, those events shall be buffered up to the practical limit, to avoid loss of information due, for instance, to loss of connection.

#### • URCB

Reports are immediately sent with the "best effort" to the connected client, based on trigger options: data changed, interval (Integrity) and request (General Interrogation - GI).

Report Control Block				
Parameters		pe	Configurad	Online
		URCB	conriguied	OIIIIIe
Control block name (RCBName)	х	х	No	No
Report Identifier (RptID)	х	х	Yes	Yes
Report Enabled (RptEna)	Х	Х	No	Yes
Data-set reference (DatSet)	х	х	Yes	No
Configuration revision (ConfRev)	х	х	Yes	No
Optional Fields to include in report (OptFlds)	Х	Х	Yes	Yes
Buffer Timer (BufTm)	х	х	Yes	Yes
Sequence number (SeqNum)	х	х	No	No
Trigger option enable (TrgOps)	х	х	Yes	Yes
Integrity period (intgPd)	х	х	Yes	Yes
General interrogation enable(GI)	Х	Х	Yes	Yes
Purge buffer (PurgeBuf)	х		Yes	Yes
Entry Identification (EntryID)	х		Yes	Yes
Time of entry (TimeOfEntry)	Х	Х	Yes	Yes

### **5.3.3: GOOSE (Generic Object Oriented Substation Event)**

The Nexus® 1500+ meter supports IEC 61850 GOOSE, a server/client model called publisher/subscriber, for rapid exchange of information.

- The meter, acting as a publisher, sends out new GOOSE messages via LAN multicast (publishing) when an event occurs (i.e., data from a referenced data-set has changed), with no user intervention. That GOOSE message is repeatedly sent, with no acknowledge message being sent back by a subscriber.
- The meter, acting as a subscriber, can accept GOOSE messages from a programmed publisher.

The meter is configured as a GOOSE publisher/subscriber based upon the settings in the user's CID file. For example, when acting as a subscriber the meter can listen to messages from multiple publishers, but will only accept messages from a publisher that has been programmed into the CID file.

• The meter supports up to 10 publishers, each one configured by the GOOSE control block (GoCB). Instances of GoCB are configured via IED configurator software. The

following table shows all GoBC parameters retrievable by a client. Some of them are set in configuration time only, others are set online.

- The maximum number of received data that can be processed is 64. That data can be from a GOOSE message from one publisher or GOOSE messages from different publishers. That maximum number of data is divided in 4 different groups based upon the data type: 16 Boolean, 16 SPS (single point status), 16 integer and 16 float. All those 64 data points are mapped into the "vrtGGIO" logic node, and can be retrieved by an IEC 61850 client.
- The meter as a publisher supports up to 10 subscribers.

GOOSE Control Block			
Parameters	Configured	Online	
GOOSE control block name (GoCBName)	Yes	No	
GOOSE control block reference(GoCBRef)	Yes	No	
GOOSE Enabled(GoEna)	Yes	YES	
GOOSE Identification (GoID)	Yes	YES	
Data-set reference (DatSet)	Yes	YES	
Configuration revision (ConfRev)	Yes	No	
Need commissioning (NdsCom)	Yes	No	

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# **6: Links to Supporting Files**

This chapter provides links to files related to the Nexus® 1500+ meter's IEC 61850 implementation.

### 6.1: Link to MICS File

This is the link to the Model Implementation Conformance Statement (MICS) html file: http://electroind.com/products/Nexus\_1500+/IEC%2061850%20Stan-dard%20Support/IEC%2061850%20MICS%20Nexus\_1500+(05112015-Release-ver1p1).htm.

### 6.2: Link to .ICD File

This is the link to the Nexus® 1500+ meter's .icd file: http://electroind.com/products/Nexus\_1500+/IEC%2061850%20Standard%20Support/ iedsrv(ver2\_0\_\_rev3\_1).ICD.

### 6.3: Link to .CID File

This is the link to the Nexus® 1500+ meter's .cid file: .http://electroind.com/products/Nexus\_1500+/IEC%2061850%20Standard%20Support/ iedsrv(ver2\_0\_\_rev3\_1).cid.

### 6.4: Link to SCD to CID Converter

You can access a free SCD to CID converter tool through the Internet. Follow these steps:

1. Go to the website http://www.ucaiug.org.



2. If this is your first time logging in, follow the steps below; otherwise, proceed to step 3.



a. Fill in the information needed to create an account in the Register for an Account section in the right bottom side of the webpage.

**NOTE:** The password you enter must be at least six characters in length.

First Name:	Alecia	
Middle Name:		
Last Name:	Goodmann	
Password:		
Confirm Password:		
Email:	agoodmann@gmail.com	
Company:	Best Co.	
Address 1:	52 Forth Worth Road	
Address 2:		
City:	Austin	
State:	Montana 💌	
Zip Code:	69680	
Country:	USA	
Fax:		
Phone:		
Industry:	Utility	
Interest Areas:	UCAIug CIM VIEC51850 OpenAMI Testing VUtilityAMI AMI - SEC AMI - Enterprise	
Group Email:	TOC	
Company Size:	< \$1 Million 💌	
Order Confirmation Number:		

b. Click Submit. Once the information is processed the webpage shows the message User Successfully Created above the Register for an Account section. **NOTE:** If your company is registered with this site and you use your company email when you register, you will have a registered account rather than a guest account. This will give you access to more than just the free application.

3. Click <u>Free Tools</u> on the bottom left side of the webpage. You will see the screen shown below.

CAIug > Pages > sitelogin	
Enter Username and Password	
Username: Alecia Goodmann	
Password:	
Z Remember Me?	
Submit	
Don't have an account?	
Fou do not have a Username and Password, please return to the site home page to create a site Guest account at no charge. Your account can be upgraded later to individual or cor	porat
Lost your username or password?	
inter the email address used to create your account. You will receive an email at that address with your login information.	
Email:	
Submit	
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- 4. Log in with your username, which is your First Name.Last Name, and the password you used to create the account, and click Submit.
- 5. You will see the screen shown below. Click on SCL-to-XML Lite.




6. You will see the screen shown below. Click on ScdToCid.

UCATug > Organization > Technical O > Testing > Shared Documents > Tools > SCL-to-XML Lite Shared Documents Share a document with the team by adding it to this document library.		
Туре	Name	
	ScdToCid	
	SdViewer	
	ReadWe	
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7. You will see the screen shown below. Click on SCDtoCIDconverter.exe to download the application.



**NOTE:** If you log in with a paid account, you can see the source code for the CSD-to-CID converter and you get the full version of the SCL-viewer.



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