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To: All customers

Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in AQ250

Version 2.5.7

Based upon UCAIUG Server PIXIT Template version 20

In Vaasa, Finland, March 04, 2022
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1. General

This document specifies the protocol implementation extra information for testing (PIXIT) of the IEC 61850 interface in AQ250 with firmware version 2.5.7.

Together with the PICS and the MICS the PIXIT forms the basis for a conformance test according to IEC 61850-10. The PIXIT entries contain information, which is not available in the PICS, MICS, TICS documents or SCL file.

Each table specifies the PIXIT for applicable ACSI service model as structured in IEC 61850-10. The "Edition" column indicates if the entry is applicable for IEC 61850 Edition 1 and/or Edition 2. A hyphen ("-") in the Edition column indicates the PIXIT entry is not applicable for any version.

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2. PIXIT for documentation

Table 1 – PIXIT for documentation

ID	Edition	Description	Value/Clarification
Do1	2	How to expose required firmware versions that are not present in the data model	Not applicable. All required firmware versions are present in data model (LPHD1.PhyNam)

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3. PIXIT for association model

Table 2 – PIXIT for association model

ID	Edition	Description	Value/Clarification
As1	1	Maximum number of clients that can set-up an association simultaneously	5
As2	1, 2	TCP_KEEPALIVE value. The recommended range is 1...20s	10 seconds
As3	1, 2	Lost connection detection time	20 seconds
As4	-	Authentication is not supported yet	
As5	1, 2	What association parameters are necessary for successful association	Called values: Transport selector Y Session selector Y Presentation selector Y AP Title N AE Qualifier N Calling values: Transport selector Y Session selector Y Presentation selector Y AP Title N AE Qualifier N
As6	1, 2	If association parameters are necessary for association, describe the correct called values and calling parameters	Called values: Transport selector 0001 Session selector 0001 Presentation selector 00000001 AP Title Any AE Qualifier Any Calling parameters: Transport selector Any Session selector Any Presentation selector Any AP Title Any AE Qualifier Any
As7	1, 2	What is the maximum and minimum MMS PDU size	Maximum MMS PDU size 65000 bytes Minimum MMS PDU size 1000 bytes
As8	1, 2	What is the maximum start up time after a power supply interrupt	180 seconds (Depending on configuration)
As9	1, 2	Does this device function only as test equipment?	N

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4. PIXIT for server model

Table 3 – PIXIT for server model

ID	Edition	Description	Value/Clarification
Sr1	1, 2	Which analogue value (MX) quality bits are supported (can be set by server)	Validity Y Good Y Invalid N Reserved Y Questionable Detail Quality Y Overflow Y OutOfRange Y BadReference Y Oscillatory Y Failure Y OldData Y Inconsistent Y Inaccurate Miscellaneous Y Source Y Test Y OperatorBlocked
Sr2	1, 2	Which status value (ST) quality bits are supported (can be set by server)	Validity Y Good Y Invalid N Reserved Y Questionable Detail Quality Y Overflow Y OutOfRange Y BadReference Y Oscillatory Y Failure Y OldData Y Inconsistent Y Inaccurate Miscellaneous Y Source Y Test Y OperatorBlocked
Sr3	-	What is the maximum number of data object references in one GetDataValues request	Deprecated

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Sr4	-	What is the maximum number of data object references in one SetDataValues request	Deprecated
Sr5	1	Which Mode values are supported	On Y [On-]Blocked Y Test Y Test/Blocked Y Off Y

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5. PIXIT for data set model

Table 4 – PIXIT for data set model

ID	Edition	Description	Value/Clarification
Ds1	1	What is the maximum number of data elements in one data set (compare ICD setting)	65
Ds2	1	How many persistent data sets can be created by one or more clients? (This number includes predefined datasets)	Not applicable. Not supported service.
Ds3	1	How many non-persistent data sets can be created by one or more clients	Not applicable. Not supported service.

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6. PIXIT for substitution model

Table 5 – PIXIT for substitution model

ID	Edition	Description	Value/Clarification
Sb1	1	Are substituted values stored in volatile memory	N

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7. PIXIT for setting group control model

Table 6 – PIXIT for substitution model

ID	Edition	Description	Value/Clarification
Sg1	1	What is the number of supported setting groups for each logical device	8
Sg2	1, 2	What is the effect of when and how the non-volatile storage is updated? (Compare IEC 61850-8-1 §16.2.4)	Not applicable. Not supported service.
Sg3	1	Can multiple clients edit the same setting group	Not applicable. Not supported service.
Sg4	1	What happens if the association is lost while editing a setting group	Not applicable. Not supported service.
Sg5	1	Is EditSG value 0 allowed	Not applicable. Not supported service.
Sg6	2	When ResvTms is not present how long is an edit setting group locked	Not applicable. Not supported service.

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8. PIXIT for reporting model

Table 7 – PIXIT for reporting model

ID	Edition	Description	Value/Clarification
Rp1	1	The supported trigger conditions are (Compare PICS)	integrity Y data change Y quality change Y data update Y general interrogation Y
Rp2	1	The supported optional fields are	sequence-number Y report-time-stamp Y reason-for-inclusion Y data-set-name Y data-reference Y buffer-overflow Y entryID Y conf-rev Y segmentation Y
Rp3	1, 2	Can the server send segmented reports (when not supported the device shall refuse an association request with a smaller than minimum PDU size)	Y
Rp4	1, 2	Mechanism on second internal data change notification of the same analogue data value within buffer period (Compare IEC 61850-7-2 Ed2 §17.2.2.9)	Send report immediately
Rp5	1	Multi-client URCB approach (Compare IEC 61850-7-2:2003 §14.2.1)	Each URCB is visible to all clients
Rp6	-	What is the format of EntryID	Deprecated
Rp7	1, 2	What is the buffer size for each BRCB or how many reports can be buffered	5,120 bytes per report control block instance. About 100 single-event reports
Rp8	-	Pre-configured RCB attributes that are dynamic, compare SCL report settings	Deprecated
Rp9	1	May the reported data set contain: - Structured data objects - Data attributes	Y Y
Rp10	1, 2	What is the scan cycle for binary events? Is this fixed, configurable?	5 milliseconds. Fixed.

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9. PIXIT for logging model

Table 8 – PIXIT for logging model

ID	Edition	Description	Value/Clarification
Lg1	1, 2	What is the default value of LogEna (Compare IEC 61850-8-1 §17.3.3.2.1, the default value should be FALSE)	Not applicable. Not supported service.
Lg2	-	What is the format of EntryID	Deprecated
Lg3	1, 2	Are there multiple Log Control Blocks that specify the Journaling of the same MMS NamedVariable and TrgOps and the Event Condition? (Compare IEC 61850-8-1 §17.3.3.3.2)	Not applicable. Not supported service.
Lg4	-	Pre-configured LCB attributes that cannot be changed online	Deprecated, the information is already available in SCL
Lg5	1	Which TrgOps are supported for logging? (Note Ed2 and up requires support for all TrgOps)	Not applicable. Not supported service.

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10. PIXIT for GOOSE publish model

Table 9 – PIXIT for GOOSE publish model

ID	Edition	Description	Value/Clarification
Gp1	1, 2	Can the test (Ed1) / simulation (Ed2) flag in the published GOOSE be set	Y
Gp2	1	What is the behavior when the GOOSE publish configuration is incorrect	Set NdsCom in published frames if SCL is still in correct format. Otherwise, rejects the configuration and not publishing anything.
Gp3	1, 2	Published FCD supported common data classes are	Arrays are not supported.
Gp4	1, 2	What is the maximum value of TAL (maxTime) Is it fixed or configurable?	59999 milliseconds
Gp5	1, 2	What is the fastest retransmission time?	1 millisecond
Gp6	-	Can the GOOSE publish be turned on / off by using SetGoCBValues (GoEna)	Deprecated See PICS – SetGoCBValues
Gp7	1, 2	What is the initial GOOSE sqNum after restart	sqNum = 1
Gp8	1	May the GOOSE data set contain: - structured data objects (FCD) - timestamp data attributes	Y Y
Gp9	1, 2	Does Server or ICT refuse GOOSE payload dataset length greater than SCSM supports?	ICT refuses GOOSE payload dataset length greater than SCSM supports.

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11. PIXIT for GOOSE subscribe model

Table 10 – PIXIT for GOOSE subscribe model

ID	Edition	Description	Value/Clarification
Gs1	1, 2	<p>What elements of a subscribed GOOSE message are checked to decide the message is valid and the allData values are accepted? If yes, describe the conditions.</p> <p>Notes: - The VLAN tag may be removed by an Ethernet switch and shall not be checked - The simulation flag shall always be checked (Ed2)</p>	<p>Y destination MAC address Y APPID Y gocbRef Y timeAllowedtoLive N datSet N golD N T Y stNum Y sqNum Y simulation / test Y confRev Y ndsCom N numDatSetEntries Y out-of-order dataset members</p>
Gs2	1, 2	<p>When is a subscribed GOOSE marked as lost? (TAL = time allowed to live value from the last received GOOSE message)</p>	Message does not arrive prior to TAL
Gs3	1, 2	<p>What is the behavior when one or more subscribed GOOSE messages is not received or syntactically incorrect (missing GOOSE)</p>	<p>Corrupted messages are discarded. If GOOSE messages missing, the corresponding LGOS.St.stVal will be set to FALSE after TAL (Can also be seen in HMI). The next valid message is received normally</p>
Gs4	1, 2	<p>What is the behavior when a subscribed GOOSE message is out-of-order</p>	Discard older message
Gs5	1, 2	<p>What is the behavior when a subscribed GOOSE message is duplicated</p>	Discard duplicated message
Gs6	1	<p>Does the device subscribe to GOOSE messages with/without the VLAN tag</p>	<p>Y, with the VLAN tag Y, without the VLAN tag</p>
Gs7	1	<p>May the GOOSE data set contain: - structured data objects (FCD) - timestamp data attributes</p>	<p>Y Y</p>

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Gs8	1, 2	Subscribed FCD supported common data classes are	SPS, ACT, ACD MV, CMV, WYE, DEL SPC, APC SPG
Gs9	1	Are subscribed GOOSE with test=T (Ed1) / simulation=T (Ed2) accepted in test/simulation mode	Y
Gs10	1, 2	Max number of dataset members	16
Gs11	1	Is Fixed-length encoded GOOSE supported	N
Gs12	2	Is IEC 62351-6 security supported	N

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12. PIXIT for GOOSE performance

Table 11 – PIXIT for GOOSE performance

ID	Edition	Description	Value/Clarification
Gf1	1, 2	Performance class	P1
Gf2	1, 2	GOOSE ping-pong processing method	Event driven based
Gf3	1, 2	Application logic scan cycle (ms)	Maximum 5 milliseconds Minimum 1 millisecond
Gf4	1	Maximum number of data attributes in GOOSE dataset (value and quality has to be counted as separate attributes)	16

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13. PIXIT for control model

Table 12 – PIXIT for control model

ID	Edition	Description	Value/Clarification
Ct1	1	What control models are supported (Compare ICD file enums for Ed2)	DOns: Y SBOs: Y DOes: Y SBOes: Y
Ct2	1, 2	Is the control model fixed, configurable and/or dynamic	Configurable
Ct3	-	Is TimeActivatedOperate supported (compare PICS or SCL)	Deprecated
Ct4	-	Is “operate-many” supported (compare sboClass)	Deprecated, see sboClass in data model (ICD)
Ct5	1	Will the DUT activate the control output when the test attribute is set in the SelectWithValue and/or Operate request (when N test procedure Ct12 is applicable)	N
Ct6	-	What are the conditions for the time (T) attribute in the SelectWithValue and/or Operate request	Deprecated
Ct7	-	Is pulse configuration supported (compare pulseConfig)	Deprecated
Ct8	1	What is the behavior of the DUT when the check conditions are set? Is this behavior fixed, configurable, online changeable?	DUT ignores the check condition value and always perform the check. Fixed.
Ct9	1, 2	Which additional cause diagnosis are supported	Y Unknown Y Not-supported Y Blocked-by-switching-hierarchy N Select-failed Y Invalid-position Y Position-reached N Step-limit Y Blocked-by-Mode N Blocked-by-process Y Blocked-by-interlocking N Blocked-by-synchrocheck Y Command-already-in-execution N Blocked-by-health

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			<p>N 1-of-n-control N Abortion-by-cancel N Time-limit-over N Abortion-by-trip Y Object-not-selected</p> <p>Edition 1 specific values: N Parameter-change-in-execution (Ed1 semantics)</p> <p>Edition 2 specific values: Y Object-already-selected N No-access-authority N Ended-with-overshoot N Abortion-due-to-deviation N Abortion-by-communication-loss N Blocked-by-command N None N Inconsistent-parameters Y Locked-by-other-client N Parameter-change-in-execution (Ed2 semantics)</p>
Ct10	1, 2	How to force a “test-not-ok” respond with SelectWithValue request	Set Local/Remote switch to “Local”
Ct11	1, 2	How to force a “test-not-ok” respond with Select request	Set Local/Remote switch to “Local”
Ct12	1, 2	How to force a “test-not-ok” respond with Operate request	Set Local/Remote switch to “Local”
Ct13	1, 2	Which origin categories are supported / accepted	Y bay-control Y station-control Y remote-control Y automatic-bay Y automatic-station Y automatic-remote Y maintenance Y process
Ct14	1, 2	What happens if the orCat value is not supported or invalid	Error (AddCause = Not-supported)
Ct15	1, 2	Does the IED accept a SelectWithValue / Operate with the same control value as the current status value	DOns N SBOns N DOes N SBOes N
		Is this behavior configurable	Configurable N
Ct16	1	Does the IED accept a select/operate on the same control	DOns N SBOns N

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		object from 2 different clients at the same time	DOes N SBOes N
Ct17	1	Does the IED accept a Select / SelectWithValue from the same client when the control object is already selected (Tissue #334)	SBOs N SBOes N
Ct18	1	Deprecated	
Ct19	-	Can a control operation be blocked by Mod=Off or [On-]Blocked (Compare PIXIT-Sr5)	Deprecated
Ct20	1, 2	Does the IED support local / remote operation	Y
Ct21	1, 2	Does the IED send an InformationReport with LastApplError as part of the Operate response- for control with normal security	DOs Y SBOs Y
Ct22	2	How to force a "parameter-change-in-execution"	SBOs: Cannot be forced. SBOes: Cannot be forced
Ct23	1, 2	How many SBOs/SBOes control objects can be selected at the same time?	SBOs: multiple SBOes: multiple
Ct24	1, 2	Can a controllable object be forced to keep its old state e.g., Internal Controllable Objects may not be accessible to force this, whereas a switch like Circuit Breaker outside the DUT can?	N
Ct25	1, 2	When CDC=DPC is supported, is it possible to have DPC (Controllable Double Point) go to the intermediate state? (00)	Y
Ct26	1, 2	Name an enhanced security control point (if any) with a finite operate timeout Specify the operate timeout (in milliseconds)	AQx2xxRelay/OBJ1CSWI1.Pos DOes: 10000 milliseconds SBOes: 10000 milliseconds
Ct27	2	Does the IED support control objects with external signals?	DOs Y SBOs Y DOes Y SBOes Y
Ct28		Deprecated, kept as placeholder	

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14. PIXIT for time synchronization model

Table 13 – PIXIT for time synchronization model

ID	Edition	Description	Value/Clarification
Tm1	1	What time quality bits are supported (may be set by the IED)	Y LeapSecondsKnown Y ClockFailure Y ClockNotSynchronized
Tm2	1, 2	Describe the behavior when all time server(s) cease to respond What is the time server lost detection time	Internal time is used. 180 seconds.
Tm3	1, 2	How long does it take to take over the new time from time server	90 seconds
Tm4	1, 2	When is the time quality bit “Clock Failure” set	Upon hardware clock chip failure. Cannot be tested.
Tm5	1	When is the time quality bit “Clock not Synchronized” set	When NTP sync is lost
Tm6	-	Is the timestamp of a binary event adjusted to the configured scan cycle	Deprecated
Tm7	1	Does the device support time zone and daylight saving	Y
Tm8	1, 2	Which attributes of the SNTP response packet are validated	Y Leap indicator not equal to 3 Y Mode is equal to SERVER Y OriginateTimestamp is equal to value sent by the SNTP client as Transmit Timestamp N RX/TX timestamp fields are checked for reasonableness Y SNTP version 3 and/or 4 N other (describe)
Tm9	1, 2	Do the COMTRADE files have local time or UTC time and is this configurable	UTC time. Not configurable.

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15. PIXIT for file transfer model

Table 14 – PIXIT for file transfer model

ID	Edition	Description	Value/Clarification
Ft1	1	<p>What is the structure of files and directories?</p> <p>Where are the COMTRADE files stored?</p> <p>Are COMTRADE files zipped and what files are included in each zip file</p>	<p>File system with folders</p> <p>/tmp/ftproot/ftp/records/</p> <p>Zipped Zip includes: .cfg and .dat</p>
Ft2	1, 2	Directory names are separated from the file name by	"/"
Ft3	1	The maximum file name size including path (recommended 64 chars)	255 characters
Ft4	1, 2	Are directory/file name case sensitive	Case sensitive
Ft5	1, 2	Maximum file size for SetFile	Not applicable. Not supported service.
Ft6	1	Is the requested file path included in the MMS fileDirectory respond file name	N (Ed2 always complete path)
Ft7	1	Is the wild card supported in the MMS fileDirectory request	N
Ft8	1, 2	Is it allowed that 2 clients get a file at the same time	Y same file Y different files
Ft9	1,2	Which files can be deleted	All files in /tmp/ftproot/ftp/records/ folder

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16. PIXIT for service tracking model

Table 15 – PIXIT for service tracking model

ID	Edition	Description	Value/Clarification
Tr1	2	Which ACSI services are tracked by LTRK.GenTrk	Not applicable. Not supported service.

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