

# Final Interoperability Test Report

FIT #: **13**  
 Date: 08.07.2014  
 Location: Zug, Switzerland  
 Page 1 of 48

<b>APPLICANT</b>
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Company: Landis+Gyr

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Address: 1 Lysander Drive, Northfields Ind Est, Petborough PE 8FB, Great Britain

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DEVICE		
Device type	<b>E450 ZMXi 3x0 xP S3</b>	
<i>Type indication on MID certificate</i>	<i>MID Certificate No.</i>	
E450 ZMXi 3x0xP	T10613R00	
<i>IDIS Specification reference</i>	<i>KEMA IDIS Certification run No</i>	<i>Digital signature of the test report.</i>
Package 1 ed. 1.1	118	8CD76AA65B889B8F36CA83357C9A88BF
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input checked="" type="checkbox"/>	0020	<input type="checkbox"/>
General information about the device		

FIRMWARE VERSIONS TESTED				<i>Final Integration Test No. 13</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	V650101			PASSED

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Elster GmbH

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Iskraemeco d.d.

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Itron

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Landis+Gyr AG

Fit #13

Device:E450 ZMXi 3x0 xP S3

Zug, Switzerland, 08.07.2014

Page 2 of 48

FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	V650101			13	PASSED

TEST REPORT - Firmware No. 1		
Test	Verdict	Remark
Meter discovery and registering	Passed	
M-Bus device discovery [Extension M]	Passed	
S-FSK related data	Passed	
All Device ID's	Passed	
SAP assignment	Passed	
COSEM logical device name	Passed	
FW version and signature	Passed	
Broadcast Date and time	Passed	
Broadcast Special Days Table	Passed	
Event logs	Passed	
Billing period data	Passed	
Optical Port Connectivity	Passed	
Alarm Reporting	Passed	
<b>FIT Conformance Test Report</b> <pre> ***** IDIS Conformance test report 09-JUL-2014 10:17:48 iCTT Package 1, Edition 1.1, Revision 1 (209) Licensed to: IDIS Association Tester: info@idis-association.com *****  ***** * Identification * *****  Manufacturer = {   Name = '\Landis + Gyr'   ThreeLettersId = '\LGZ' } DeviceUnderTest = {   IDISDeviceType = 101   IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M]   SerialNr = 77777712   Type = '\LGZ E450_ZMXi3x0xP..S3' }  Active firmware version (1-0:0.2.0.255) = \V650101  ***** * Summary * *****  PASSED          189 FAILED          0 DISABLED        40 INAPPLICABLE    8 INCONCLUSIVE    5 FATAL           0 TOTAL           242  ***** Test Case 1 : Discovery, 1 item(s) ***** (1) Meter Discovery                                     PASSED  ***** Test Case 2 : Connect and release, 4 item(s) ***** (1) Connect Public                                    PASSED (2) Release Public                                    PASSED (3) Connect Management                                PASSED (4) Release Management                                PASSED </pre>		

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*****
Test Case 3 : Read S-FSK settings, 35 item(s)
*****

Mngmt Get S-FSK Phy&MAC setup 0-0:26.0.0.255 (@1933)
(1) .logical_name PASSED
    <Data>
    <OctetString Value="00001A0000FF" />
    </Data>
(2) .initiator_electrical_phase PASSED
    <Data>
    <Enum Value="00" />
    </Data>
(3) .delta_electrical_phase PASSED
    <Data>
    <Enum Value="01" />
    </Data>
(4) .max_receiving_gain PASSED
    <Data>
    <Unsigned Value="2A" />
    </Data>
(5) .max_transmitting_gain PASSED
    <Data>
    <Unsigned Value="00" />
    </Data>
(6) .search_initiator_gain PASSED
    <Data>
    <Unsigned Value="06" />
    </Data>
(7) .frequencies PASSED
    <Data>
    <Structure Qty="0002" >
    <DoubleLongUnsigned Value="0000F744" />
    <DoubleLongUnsigned Value="00012110" />
    </Structure>
    </Data>
(8) .mac_address PASSED
    <Data>
    <LongUnsigned Value="0013" />
    </Data>
(9) .mac_group_addresses PASSED
    <Data>
    <Array Qty="0005" >
    <LongUnsigned Value="0000" />
    <LongUnsigned Value="0000" />
    <LongUnsigned Value="0000" />
    <LongUnsigned Value="0000" />
    <LongUnsigned Value="0000" />
    </Array>
    </Data>
(10) .repeater PASSED
    <Data>
    <Enum Value="02" />
    </Data>
(11) .repeater_status PASSED
    <Data>
    <Bool Value="01" />
    </Data>
(12) .min_delta_credit PASSED
    <Data>
    <Unsigned Value="00" />
    </Data>
(13) .initiator_mac_address PASSED
    <Data>
    <LongUnsigned Value="0C00" />
    </Data>
(14) .synchronization_locked PASSED
    <Data>
    <Bool Value="01" />
    </Data>
(15) .transmission_speed PASSED
    <Data>
    <Enum Value="03" />
    </Data>

Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950)
(16) .logical_name PASSED

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    <Data>
      <OctetString Value="00001A0100FF" />
    </Data>
(17) .active_initiator PASSED
    <Data>
      <Structure Qty="0003" >
        <OctetString Value="4C475A1169000000" />
        <LongUnsigned Value="0C00" />
        <Unsigned Value="01" />
      </Structure>
    </Data>

Mngmt Get S-FSK MAC synchronisation timeouts 0-0:26.2.0.255 (@1955)
(18) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0200FF" />
    </Data>
(19) .search_initiator_timeout PASSED
    <Data>
      <LongUnsigned Value="0258" />
    </Data>
(20) .synchronization_confirmation_timeout PASSED
    <Data>
      <LongUnsigned Value="0005" />
    </Data>
(21) .timeout_not_addressed PASSED
    <Data>
      <LongUnsigned Value="0168" />
    </Data>
(22) .timeout_frame_not_OK PASSED
    <Data>
      <LongUnsigned Value="001E" />
    </Data>

Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)
(23) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0300FF" />
    </Data>
(24) .synchronization_register PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000001" />
        </Structure>
      </Array>
    </Data>
(25) .desynchronization_listing PASSED
    <Data>
      <Structure Qty="0005" >
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000001" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Data>
(26) .broadcast_frames_counter PASSED
    <Data>
      <Array Qty="0000" >
    </Array>
    </Data>
(27) .repetitions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="0000004E" />
    </Data>
(28) .transmissions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="00000031" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="000000D4" />
    </Data>
(30) .CRC_NOK_frames_counter PASSED
    <Data>

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    <DoubleLongUnsigned Value="00000002" />
  </Data>

Mngmt Get S-FSK IEC 61334-4-32 LLC Setup 0-0:26.5.0.255 (@1973)
(31) .logical_name PASSED
    <Data>
    <OctetString Value="00001A0500FF" />
    </Data>
(32) .max_frame_length PASSED
    <Data>
    <Unsigned Value="F2" />
    </Data>
(33) .reply_status_list PASSED
    <Data>
    <Array Qty="0001" >
    <Structure Qty="0002" >
    <Unsigned Value="00" />
    <Unsigned Value="07" />
    </Structure>
    </Array>
    </Data>

Mngmt Get S-FSK Reporting system list 0-0:26.6.0.255 (@1978)
(34) .logical_name PASSED
    <Data>
    <OctetString Value="00001A0600FF" />
    </Data>
(35) .reporting_system_list PASSED
    <Data>
    <Array Qty="0005" >
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
    </Array>
    </Data>

*****
Test Case 4 : Read Device ID's, 12 item(s)
*****

Mngmt Get Device ID 1, manufacturing number 0-0:96.1.0.255 (@46)
(1) .logical_name PASSED
    <Data>
    <OctetString Value="0000600100FF" />
    </Data>
(2) .value PASSED
    <Data>
    <OctetString Value="\77777712" />
    </Data>

Mngmt Get Device ID 2 0-0:96.1.1.255 (@50)
(3) .logical_name PASSED
    <Data>
    <OctetString Value="0000600101FF" />
    </Data>
(4) .value PASSED
    <Data>
    <OctetString Value="\Device ID 2" />
    </Data>

Mngmt Get Device ID 3 0-0:96.1.2.255 (@54)
(5) .logical_name PASSED
    <Data>
    <OctetString Value="0000600102FF" />
    </Data>
(6) .value PASSED
    <Data>
    <OctetString Value="\Device ID 3" />
    </Data>

Mngmt Get Device ID 4 0-0:96.1.3.255 (@58)
(7) .logical_name PASSED
    <Data>
    <OctetString Value="0000600103FF" />
    </Data>

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(8) .value	PASSED
<Data>	
<OctetString Value="\Device ID 4" />	
</Data>	
Mngmt Get Device ID 5 0-0:96.1.4.255 (@62)	
(9) .logical_name	PASSED
<Data>	
<OctetString Value="0000600104FF" />	
</Data>	
(10) .value	PASSED
<Data>	
<OctetString Value="\Device ID 5" />	
</Data>	
Mngmt Get Device ID 6, IDIS certification number 0-0:96.1.5.255 (@66)	
(11) .logical_name	PASSED
<Data>	
<OctetString Value="0000600105FF" />	
</Data>	
(12) .value	PASSED
<Data>	
<OctetString Value="\Device ID 6" />	
</Data>	
*****	
Test Case 5 : Read SAP Assignment, 2 item(s)	
*****	
Mngmt Get SAP Assignment 0-0:41.0.0.255 (@4)	
(1) .logical_name	PASSED
<Data>	
<OctetString Value="0000290000FF" />	
</Data>	
(2) .SAP_assignment_list	PASSED
<Data>	
<Array Qty="0001" >	
<Structure Qty="0002" >	
<LongUnsigned Value="0001" />	
<OctetString Value="\LGZ101077777712" />	
</Structure>	
</Array>	
</Data>	
*****	
Test Case 6 : Read COSEM logical device name, 2 item(s)	
*****	
Mngmt Get COSEM logical device name 0-0:42.0.0.255 (@42)	
(1) .logical_name	PASSED
<Data>	
<OctetString Value="00002A0000FF" />	
</Data>	
(2) .value	PASSED
<Data>	
<OctetString Value="\LGZ101077777712" />	
</Data>	
*****	
Test Case 7 : Read Active FW version, 12 item(s)	
*****	
Mngmt Get Active firmware version 1-0:0.2.0.255 (@321)	
(1) .logical_name	PASSED
<Data>	
<OctetString Value="0100000200FF" />	
</Data>	
(2) .value	PASSED
<Data>	
<OctetString Value="\V650101" />	
</Data>	
Mngmt Get Active firmware version signature 1-0:0.2.8.255 (@325)	
(3) .logical_name	PASSED
<Data>	
<OctetString Value="0100000208FF" />	
</Data>	

(4) .value <Data> <OctetString Value="\497BF46E" /> </Data>	PASSED
Mngmt Get Active firmware version 1 1-1:0.2.0.255 (@329)	
(5) .logical_name Optional object is not implemented	INAPPLICABLE
(6) .value Optional object is not implemented	INAPPLICABLE
Mngmt Get Active firmware version signature 1 1-1:0.2.8.255 (@333)	
(7) .logical_name Optional object is not implemented	INAPPLICABLE
(8) .value Optional object is not implemented	INAPPLICABLE
Mngmt Get Active firmware version 2 1-2:0.2.0.255 (@337)	
(9) .logical_name Optional object is not implemented	INAPPLICABLE
(10) .value Optional object is not implemented	INAPPLICABLE
Mngmt Get Active firmware version signature 2 1-2:0.2.8.255 (@341)	
(11) .logical_name Optional object is not implemented	INAPPLICABLE
(12) .value Optional object is not implemented	INAPPLICABLE
***** Test Case 8 : Broadcast Clock <as set in CTI>, 1 item(s) *****	
Pre Set Clock 0-0:1.0.0.255 (@75)	
(1) .time <Data> <OctetString Value="07DD0908FF080000FF8000FF" /> </Data>	PASSED
***** Test Case 9 : Read Clock, 1 item(s) *****	
Mngmt Get Clock 0-0:1.0.0.255 (@75)	
(1) .time <Data> <OctetString Value="07DD090807080003FF800080" /> </Data>	PASSED
***** Test Case 10 : Set Special Days Table <as set in CTI>, 1 item(s) *****	
Mngmt Set Special Days Table 0-0:11.0.0.255 (@113)	
(1) .entries <Data> <Array Qty="001E" > <Structure Qty="0003" > <LongUnsigned Value="0001" /> <OctetString Value="FFFF0101FF" /> <Unsigned Value="02" /> </Structure> <Structure Qty="0003" > <LongUnsigned Value="0001" /> <OctetString Value="FFFF0102FF" /> <Unsigned Value="02" /> </Structure> <Structure Qty="0003" > <LongUnsigned Value="0001" /> <OctetString Value="FFFF0103FF" /> <Unsigned Value="02" /> </Structure> <Structure Qty="0003" > <LongUnsigned Value="0001" /> <OctetString Value="FFFF0104FF" /> <Unsigned Value="02" /> </Structure> </Array>	PASSED



```
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0105FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0106FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0107FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0108FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0109FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0201FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0202FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
```

```

    <OctetString Value="FFFF020AFF" />
    <Unsigned Value="02" />
  </Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0305FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0306FF" />
  <Unsigned Value="02" />
</Structure>
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  <OctetString Value="FFFF0307FF" />
  <Unsigned Value="02" />
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<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0308FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0309FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF030AFF" />
  <Unsigned Value="02" />
</Structure>
</Array>
</Data>

```

\*\*\*\*\*  
 Test Case 11 : Read Special Days Table, 1 item(s)  
 \*\*\*\*\*

Mngmt Get Special Days Table 0-0:11.0.0.255 (@113)

(1) .entries

PASSED

```

  <_Data>
    <Array Qty="001E" >
      <Structure Qty="0003" >
        <LongUnsigned Value="0001" />
        <OctetString Value="FFFF0101FF" />
        <Unsigned Value="02" />
      </Structure>
      <Structure Qty="0003" >
        <LongUnsigned Value="0001" />
        <OctetString Value="FFFF0102FF" />
        <Unsigned Value="02" />
      </Structure>
      <Structure Qty="0003" >
        <LongUnsigned Value="0001" />
        <OctetString Value="FFFF0103FF" />

```

```

    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0104FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0105FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0106FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0107FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0108FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0109FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF010AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0201FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0202FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0203FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0204FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0205FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0206FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0207FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0208FF" />
    <Unsigned Value="02" />
  </Structure>
  </Structure>

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF020AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
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  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0306FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
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  <OctetString Value="FFFF0307FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0308FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0309FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF030AFF" />
  <Unsigned Value="02" />
</Structure>
</Array>
</_Data>

```

```

*****
Test Case 12 : Read Event Log buffers, 4 item(s)
*****

```

```

Mngmt Get Disconnecter Control Log 0-0:99.98.2.255 (@181)
(1) .buffer
  entries_in_use: 13
  <Data>
    <DoubleLongUnsigned Value="0000000D" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0003" >
      <Structure Qty="0004" >

```

PASSED

```

    <LongUnsigned Value="0008" />
    <OctetString Value="0000010000FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
  <Structure Qty="0004" >
    <LongUnsigned Value="0001" />
    <OctetString Value="0000600B02FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
  <Structure Qty="0004" >
    <LongUnsigned Value="0047" />
    <OctetString Value="0000110000FF" />
    <Integer Value="03" />
    <LongUnsigned Value="0000" />
  </Structure>
</Array>
</Data>
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        <Enum Value="FF" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000004FF800000" />
        <Enum Value="3E" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000000CFF800000" />
        <Enum Value="3F" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000000CFF800000" />
        <Enum Value="CE" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000000CFF800000" />
        <Enum Value="3B" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000016FF800000" />
        <Enum Value="3E" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000016FF800000" />
        <Enum Value="CE" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000020FF800000" />
        <Enum Value="3F" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000020FF800000" />
        <Enum Value="CE" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE031606000020FF800000" />
        <Enum Value="3B" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DE03160600002AFF800000" />
        <Enum Value="3E" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Array>
  </_Data>

```

```

    <Structure Qty="0003" >
      <OctetString Value="07DE03160600002AFF800000" />
      <Enum Value="CE" />
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    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DE031606000038FF800000" />
      <Enum Value="3F" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Array>
</_Data>
Earliest date: 22-MAR-2014 00:00:01, latest date: 22-MAR-2014 00:00:56
Middle date: 22-MAR-2014 00:00:22

Mngmt Get Standard Event Log 0-0:99.98.0.255 (@261)
(2) .buffer PASSED
  entries_in_use: 137
  <Data>
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  </Data>
  capture_objects:
  <Data>
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        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0000600B00FF" />
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        <LongUnsigned Value="0000" />
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    </Array>
  </Data>
  Buffer has 137 elements:
  <_Data>
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        <Enum Value="FF" />
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      <Structure Qty="0002" >
        <OctetString Value="07DE031101000000FF800000" />
        <Enum Value="FE" />
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      <Structure Qty="0002" >
        <OctetString Value="07DE031101000000FF800000" />
        <Enum Value="FE" />
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      <Structure Qty="0002" >
        <OctetString Value="07DE031101000000FF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031101000002FF800000" />
        <Enum Value="04" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031202000000FF800000" />
        <Enum Value="05" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031202000000FF800000" />
        <Enum Value="CA" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031202000001FF800000" />
        <Enum Value="04" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031303000000FF800000" />
        <Enum Value="05" />
      </Structure>
    </Array>
  </_Data>

```

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  <OctetString Value="07DE031404000000FF800000" />
  <Enum Value="05" />
</Structure>
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  <OctetString Value="07DE031404000000FF800000" />
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  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031505000000FF800000" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031505000000FF800000" />
  <Enum Value="CA" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031505000001FF800000" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031606000000FF800000" />
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</Structure>
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  <OctetString Value="07DE031606000000FF800000" />
  <Enum Value="CA" />
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  <OctetString Value="07DE031606000A38FF800000" />
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  <Enum Value="35" />
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  <OctetString Value="07DE031606001711FF800000" />
  <Enum Value="2F" />
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  <OctetString Value="07DE031606001713FF800000" />
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```

```
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  <OctetString Value="07DE03160600183AFF800000" />
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  <OctetString Value="07DE031606012F21FF800000" />
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  <OctetString Value="07DE031707121D34FF800000" />
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```



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</Structure>
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<Structure Qty="0002" >
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```

    <Enum Value="35" />
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Earliest date: 08-SEP-2013 07:00:00, latest date: 24-MAR-2014 03:07:23
Middle date: 23-MAR-2014 19:02:07

```

Mngmt Get Fraud Detection Log 0-0:99.98.1.255 (@276)

(3) .buffer  
 entries\_in\_use: 13

PASSED

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  <Data>
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  </Data>
  capture_objects:
  <Data>
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        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0000600B01FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>

```

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</Data>
Buffer has 13 elements:
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      <Enum Value="FF" />
    </Structure>
    <Structure Qty="0002" >
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    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000D2CFF800000" />
      <Enum Value="28" />
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    <Structure Qty="0002" >
      <OctetString Value="07DE031606000D31FF800000" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000D36FF800000" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E00FF800000" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E05FF800000" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E0AFF800000" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E0FFF800000" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E15FF800000" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E1AFF800000" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606001722FF800000" />
      <Enum Value="2E" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE03180103011AFF800000" />
      <Enum Value="31" />
    </Structure>
  </Array>
</_Data>
Earliest date: 22-MAR-2014 00:13:34, latest date: 24-MAR-2014 03:01:26
Middle date: 22-MAR-2014 00:14:05

```

Mngmt Get Power Quality Log 0-0:99.98.4.255 (@1249)

(4) .buffer  
 entries\_in\_use: 27

PASSED

```

<Data>
  <DoubleLongUnsigned Value="0000001B" />
</Data>
capture_objects:
<Data>
  <Array Qty="0002" >
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Array>

```

```

        <LongUnsigned Value="0001" />
        <OctetString Value="0000600B04FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
</Array>
</Data>
Buffer has 27 elements:
<_Data>
  <Array Qty="001B" >
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E1AFF800000" />
      <Enum Value="FF" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E1FFF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E24FF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E2AFF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E2FFF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E34FF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000E39FF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000F03FF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000F08FF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000F0DFF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606000F12FF800000" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606001718FF800000" />
      <Enum Value="54" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606001718FF800000" />
      <Enum Value="53" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606001822FF800000" />
      <Enum Value="54" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606001822FF800000" />
      <Enum Value="53" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606012F26FF800000" />
      <Enum Value="54" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DE031606012F26FF800000" />
      <Enum Value="53" />
    </Structure>
  </Array>
</_Data>

```

```

</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE03160613180AFF800000" />
  <Enum Value="54" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE03160613180AFF800000" />
  <Enum Value="53" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031707121618FF800000" />
  <Enum Value="54" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031707121618FF800000" />
  <Enum Value="53" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031707121D39FF800000" />
  <Enum Value="54" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031707121D39FF800000" />
  <Enum Value="53" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031707130211FF800000" />
  <Enum Value="54" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031707130211FF800000" />
  <Enum Value="53" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031707131321FF800000" />
  <Enum Value="54" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031707131321FF800000" />
  <Enum Value="53" />
</Structure>
</Array>
</_Data>
Earliest date: 22-MAR-2014 00:14:26, latest date: 23-MAR-2014 19:19:33
Middle date: 22-MAR-2014 00:24:34

```

```

*****
Test Case 13 : Read Data of Billing Period 1 buffer, 1 item(s)
*****

```

```

Mngmt Get Data of billing period 1 0-0:98.1.0.255 (@146)
(1) .buffer INCONCLUSIVE
  entries_in_use: 0
  <Data>
    <DoubleLongUnsigned Value="00000000" />
  </Data>
  Too few buffer entries (0), required 5

```

```

*****
Test Case 14 : MBUS Libra Ref test, 130 item(s)
*****

```

```

Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1483)
(1) .mbus_port_reference PASSED
  <Data>
    <OctetString Value="0000180600FF" />
  </Data>
(2) .capture_definition PASSED
  <Data>
    <Array Qty="0004" >
      <Structure Qty="0002" >
        <OctetString Value="\L" />
        <OctetString Value="933A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="\L" />
        <OctetString Value="13" />
      </Structure>
    </Array>
  </Data>

```



```

        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="\ " />
            <OctetString Value="\ " />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="\ " />
            <OctetString Value="\ " />
        </Structure>
    </Array>
</Data>
(3) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(4) .primary_address PASSED
    <Data>
        <Unsigned Value="01" />
    </Data>
(5) .identification_number PASSED
    <Data>
        <DoubleLongUnsigned Value="00047BB1" />
    </Data>
(6) .manufacturer_id PASSED
    <Data>
        <LongUnsigned Value="19AC" />
    </Data>
(7) .version PASSED
    <Data>
        <Unsigned Value="02" />
    </Data>
(8) .device_type PASSED
    <Data>
        <Unsigned Value="03" />
    </Data>
(9) .access_number PASSED
    <Data>
        <Unsigned Value="C3" />
    </Data>
(10) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>
(11) .alarm PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus client channel 2 0-2:24.1.0.255 (@1505)
(12) .mbus_port_reference PASSED
    <Data>
        <OctetString Value="0000180600FF" />
    </Data>
(13) .capture_definition PASSED
    <Data>
        <Array Qty="0004" >
            <Structure Qty="0002" >
                <OctetString Value="\L" />
                <OctetString Value="933A" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="\L" />
                <OctetString Value="13" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="\ " />
                <OctetString Value="\ " />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="\ " />
                <OctetString Value="\ " />
            </Structure>
        </Array>
    </Data>
(14) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>

```

	</Data>	
(15)	.primary_address <Data> <Unsigned Value="02" /> </Data>	PASSED
(16)	.identification_number <Data> <DoubleLongUnsigned Value="00047BB2" /> </Data>	PASSED
(17)	.manufacturer_id <Data> <LongUnsigned Value="19AC" /> </Data>	PASSED
(18)	.version <Data> <Unsigned Value="02" /> </Data>	PASSED
(19)	.device_type <Data> <Unsigned Value="03" /> </Data>	PASSED
(20)	.access_number <Data> <Unsigned Value="58" /> </Data>	PASSED
(21)	.status <Data> <Unsigned Value="00" /> </Data>	PASSED
(22)	.alarm <Data> <Unsigned Value="00" /> </Data>	PASSED
Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1527)		
(23)	.mbus_port_reference <Data> <OctetString Value="0000180600FF" /> </Data>	PASSED
(24)	.capture_definition <Data> <Array Qty="0004" > <Structure Qty="0002" > <OctetString Value="\L" /> <OctetString Value="933A" /> </Structure> <Structure Qty="0002" > <OctetString Value="\L" /> <OctetString Value="13" /> </Structure> <Structure Qty="0002" > <OctetString Value="\ " /> <OctetString Value="\ " /> </Structure> <Structure Qty="0002" > <OctetString Value="\ " /> <OctetString Value="\ " /> </Structure> </Array> </Data>	PASSED
(25)	.capture_period <Data> <DoubleLongUnsigned Value="00000E10" /> </Data>	PASSED
(26)	.primary_address <Data> <Unsigned Value="03" /> </Data>	PASSED
(27)	.identification_number <Data> <DoubleLongUnsigned Value="00047BB4" /> </Data>	PASSED
(28)	.manufacturer_id <Data> <LongUnsigned Value="19AC" /> </Data>	PASSED
(29)	.version	PASSED

```

    <Data>
      <Unsigned Value="02" />
    </Data>
(30) .device_type PASSED
    <Data>
      <Unsigned Value="03" />
    </Data>
(31) .access_number PASSED
    <Data>
      <Unsigned Value="7F" />
    </Data>
(32) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>
(33) .alarm PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus client channel 4 0-4:24.1.0.255 (@1549)
(34) .mbus_port_reference PASSED
    <Data>
      <OctetString Value="0000180600FF" />
    </Data>
(35) .capture_definition PASSED
    <Data>
      <Array Qty="0004" >
        <Structure Qty="0002" >
          <OctetString Value="\L" />
          <OctetString Value="933A" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="\L" />
          <OctetString Value="13" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="\ " />
          <OctetString Value="\ " />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="\ " />
          <OctetString Value="\ " />
        </Structure>
      </Array>
    </Data>
(36) .capture_period PASSED
    <Data>
      <DoubleLongUnsigned Value="00000E10" />
    </Data>
(37) .primary_address PASSED
    <Data>
      <Unsigned Value="04" />
    </Data>
(38) .identification_number PASSED
    <Data>
      <DoubleLongUnsigned Value="00047BB3" />
    </Data>
(39) .manufacturer_id PASSED
    <Data>
      <LongUnsigned Value="19AC" />
    </Data>
(40) .version PASSED
    <Data>
      <Unsigned Value="02" />
    </Data>
(41) .device_type PASSED
    <Data>
      <Unsigned Value="03" />
    </Data>
(42) .access_number PASSED
    <Data>
      <Unsigned Value="AF" />
    </Data>
(43) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>

```

```

    </Data>
(44) .alarm PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus Value channel 1, instance 1 0-1:24.2.1.255 (@1571)
(45) .value PASSED
    <Data>
        <DoubleLongUnsigned Value="05F5DD56" />
    </Data>
(46) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="FD" />
            <Enum Value="0D" />
        </Structure>
    </Data>
(47) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1579)
(49) .value PASSED
    <Data>
        <DoubleLongUnsigned Value="00000227" />
    </Data>
(50) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="FD" />
            <Enum Value="0E" />
        </Structure>
    </Data>
(51) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1603)
(61) .value PASSED
    <Data>
        <DoubleLongUnsigned Value="05F5DD18" />
    </Data>
(62) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="FD" />
            <Enum Value="0D" />
        </Structure>
    </Data>
(63) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1611)
(65) .value PASSED
    <Data>
        <DoubleLongUnsigned Value="000004AE" />
    </Data>
(66) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="FD" />
            <Enum Value="0E" />
        </Structure>
    </Data>
(67) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1635)
(77) .value PASSED
    <Data>

```

```

        <DoubleLongUnsigned Value="05F5DD28" />
    </Data>
(78) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="FD" />
            <Enum Value="0D" />
        </Structure>
    </Data>
(79) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>
Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1643)
(81) .value PASSED
    <Data>
        <DoubleLongUnsigned Value="000001E7" />
    </Data>
(82) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="FD" />
            <Enum Value="0E" />
        </Structure>
    </Data>
(83) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>
Mngmt Get M-Bus Value channel 4, instance 1 0-4:24.2.1.255 (@1667)
(93) .value PASSED
    <Data>
        <DoubleLongUnsigned Value="05F5DD26" />
    </Data>
(94) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="FD" />
            <Enum Value="0D" />
        </Structure>
    </Data>
(95) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>
Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1675)
(97) .value PASSED
    <Data>
        <DoubleLongUnsigned Value="000003CC" />
    </Data>
(98) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="FD" />
            <Enum Value="0E" />
        </Structure>
    </Data>
(99) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>
Mngmt Get M-Bus Device ID 1 channel 1 0-1:96.1.0.255 (@1699)
(109) .value PASSED
    <Data>
        <OctetString Value="\00000540029380911" />
    </Data>
Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1703)
(110) .value PASSED
    <Data>
        <OctetString Value="\00000540029381011" />
    </Data>

```

```

Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1707)
(111) .value                                     PASSED
      <Data>
        <OctetString Value="\00000540029381211" />
      </Data>

Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1711)
(112) .value                                     PASSED
      <Data>
        <OctetString Value="\00000540029381111" />
      </Data>

Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1747)
(113) .buffer                                     INCONCLUSIVE
      entries_in_use: 1
      <Data>
        <DoubleLongUnsigned Value="00000001" />
      </Data>
      Too few buffer entries (1), required 5

(114) .capture_objects                           PASSED
      <Data>
        <Array Qty="0006" >
          <Structure Qty="0004" >
            <LongUnsigned Value="0008" />
            <OctetString Value="0000010000FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
          </Structure>
          <Structure Qty="0004" >
            <LongUnsigned Value="0001" />
            <OctetString Value="0001600A03FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
          </Structure>
          <Structure Qty="0004" >
            <LongUnsigned Value="0004" />
            <OctetString Value="0001180201FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
          </Structure>
          <Structure Qty="0004" >
            <LongUnsigned Value="0004" />
            <OctetString Value="0001180202FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
          </Structure>
          <Structure Qty="0004" >
            <LongUnsigned Value="0004" />
            <OctetString Value="0001180203FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
          </Structure>
          <Structure Qty="0004" >
            <LongUnsigned Value="0004" />
            <OctetString Value="0001180204FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
          </Structure>
        </Array>
      </Data>

(115) .capture_period                             PASSED
      <Data>
        <DoubleLongUnsigned Value="00000E10" />
      </Data>

(116) .entries_in_use                             PASSED
      <Data>
        <DoubleLongUnsigned Value="00000001" />
      </Data>

Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1758)
(117) .buffer                                     INCONCLUSIVE
      entries_in_use: 1
      <Data>
        <DoubleLongUnsigned Value="00000001" />
      </Data>
      Too few buffer entries (1), required 5

(118) .capture_objects                           PASSED

```

```

<Data>
  <Array Qty="0006" >
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0001" />
      <OctetString Value="0002600A03FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0002180201FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0002180202FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0002180203FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0002180204FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Array>
</Data>
(119) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(120) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000001" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 3 0-3:24.3.0.255 (@1769)
(121) .buffer INCONCLUSIVE
  entries_in_use: 1
  <Data>
    <DoubleLongUnsigned Value="00000001" />
  </Data>
  Too few buffer entries (1), required 5
(122) .capture_objects PASSED
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0003600A03FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0003180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>

```

```

    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180202FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  <Structure Qty="0004" >
    <LongUnsigned Value="0004" />
    <OctetString Value="0003180203FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
  <Structure Qty="0004" >
    <LongUnsigned Value="0004" />
    <OctetString Value="0003180204FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
</Array>
</Data>
(123) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(124) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000001" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1780)
(125) .buffer INCONCLUSIVE
  entries_in_use: 1
  <Data>
    <DoubleLongUnsigned Value="00000001" />
  </Data>
  Too few buffer entries (1), required 5
(126) .capture_objects PASSED
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0004600A03FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180202FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180203FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180204FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>

```



```

(127) .capture_period                                     PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(128) .entries_in_use                                     PASSED
  <Data>
    <DoubleLongUnsigned Value="00000001" />
  </Data>
Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1898)
(129) .buffer                                           PASSED
  entries_in_use: 15
  <Data>
    <DoubleLongUnsigned Value="0000000F" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0000600B03FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
  Buffer has 15 elements:
  <_Data>
    <Array Qty="000F" >
      <Structure Qty="0002" >
        <OctetString Value="07DE031101000000FF800000" />
        <Enum Value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031101000000FF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031101000001FF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031101000001FF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031101000001FF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031101000001FF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE03160601300AFF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE03170715200BFF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031707152016FF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE03170715201BFF800000" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE03170715201FFF800000" />
        <Enum Value="FE" />
      </Structure>
    </Array>
  </_Data>

```

```

        <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
        <OctetString Value="07DD090807070000FF800000" />
        <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
        <OctetString Value="07DD090807070000FF800000" />
        <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
        <OctetString Value="07DD090807070000FF800000" />
        <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
        <OctetString Value="07DD090807070000FF800000" />
        <Enum Value="FE" />
    </Structure>
    </Array>
</Data>
Earliest date: 08-SEP-2013 07:00:00, latest date: 23-MAR-2014 21:32:31
Middle date: 23-MAR-2014 21:32:11
(130) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000F" />
    </Data>

*****
Test Case 15 : Re-read S-FSK, 35 item(s)
*****

Mngmt Get S-FSK Phy&MAC setup 0-0:26.0.0.255 (@1933)
(1) .logical_name PASSED
    <Data>
        <OctetString Value="00001A0000FF" />
    </Data>
(2) .initiator_electrical_phase PASSED
    <Data>
        <Enum Value="00" />
    </Data>
(3) .delta_electrical_phase PASSED
    <Data>
        <Enum Value="01" />
    </Data>
(4) .max_receiving_gain PASSED
    <Data>
        <Unsigned Value="2A" />
    </Data>
(5) .max_transmitting_gain PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>
(6) .search_initiator_gain PASSED
    <Data>
        <Unsigned Value="06" />
    </Data>
(7) .frequencies PASSED
    <Data>
        <Structure Qty="0002" >
            <DoubleLongUnsigned Value="0000F744" />
            <DoubleLongUnsigned Value="00012110" />
        </Structure>
    </Data>
(8) .mac_address PASSED
    <Data>
        <LongUnsigned Value="0013" />
    </Data>
(9) .mac_group_addresses PASSED
    <Data>
        <Array Qty="0005" >
            <LongUnsigned Value="0000" />
            <LongUnsigned Value="0000" />
            <LongUnsigned Value="0000" />
            <LongUnsigned Value="0000" />
            <LongUnsigned Value="0000" />
        </Array>
    </Data>

```

(10) .repeater	PASSED
<Data>	
<Enum Value="02" />	
</Data>	
(11) .repeater_status	PASSED
<Data>	
<Bool Value="01" />	
</Data>	
(12) .min_delta_credit	PASSED
<Data>	
<Unsigned Value="00" />	
</Data>	
(13) .initiator_mac_address	PASSED
<Data>	
<LongUnsigned Value="0C00" />	
</Data>	
(14) .synchronization_locked	PASSED
<Data>	
<Bool Value="01" />	
</Data>	
(15) .transmission_speed	PASSED
<Data>	
<Enum Value="03" />	
</Data>	
Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950)	
(16) .logical_name	PASSED
<Data>	
<OctetString Value="00001A0100FF" />	
</Data>	
(17) .active_initiator	PASSED
<Data>	
<Structure Qty="0003" >	
<OctetString Value="4C475A1169000000" />	
<LongUnsigned Value="0C00" />	
<Unsigned Value="01" />	
</Structure>	
</Data>	
Mngmt Get S-FSK MAC synchronisation timeouts 0-0:26.2.0.255 (@1955)	
(18) .logical_name	PASSED
<Data>	
<OctetString Value="00001A0200FF" />	
</Data>	
(19) .search_initiator_timeout	PASSED
<Data>	
<LongUnsigned Value="0258" />	
</Data>	
(20) .synchronization_confirmation_timeout	PASSED
<Data>	
<LongUnsigned Value="0005" />	
</Data>	
(21) .timeout_not_addressed	PASSED
<Data>	
<LongUnsigned Value="0168" />	
</Data>	
(22) .timeout_frame_not_OK	PASSED
<Data>	
<LongUnsigned Value="001E" />	
</Data>	
Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)	
(23) .logical_name	PASSED
<Data>	
<OctetString Value="00001A0300FF" />	
</Data>	
(24) .synchronization_register	PASSED
<Data>	
<Array Qty="0001" >	
<Structure Qty="0002" >	
<LongUnsigned Value="0C00" />	
<DoubleLongUnsigned Value="00000001" />	
</Structure>	
</Array>	
</Data>	
(25) .desynchronization_listing	PASSED
<Data>	

```

    <Structure Qty="0005" >
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000001" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Data>
(26) .broadcast_frames_counter PASSED
  <Data>
    <Array Qty="0000" >
    </Array>
  </Data>
(27) .repetitions_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="0000006C" />
  </Data>
(28) .transmissions_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="0000011C" />
  </Data>
(29) .CRC_OK_frames_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="000003A4" />
  </Data>
(30) .CRC_NOK_frames_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="00000002" />
  </Data>

Mngmt Get S-FSK IEC 61334-4-32 LLC Setup 0-0:26.5.0.255 (@1973)
(31) .logical_name PASSED
  <Data>
    <OctetString Value="00001A0500FF" />
  </Data>
(32) .max_frame_length PASSED
  <Data>
    <Unsigned Value="F2" />
  </Data>
(33) .reply_status_list PASSED
  <Data>
    <Array Qty="0001" >
      <Structure Qty="0002" >
        <Unsigned Value="00" />
        <Unsigned Value="07" />
      </Structure>
    </Array>
  </Data>

Mngmt Get S-FSK Reporting system list 0-0:26.6.0.255 (@1978)
(34) .logical_name PASSED
  <Data>
    <OctetString Value="00001A0600FF" />
  </Data>
(35) .reporting_system_list PASSED
  <Data>
    <Array Qty="0005" >
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Array>
  </Data>

```

```

*****
* CTI *
*****

```

```

//*****
//* CTI LGZ E450_ZFXi3x0CP_XXXXXX-xxS2 *
//*
//* FIT #6
//* 2013-11-04
//*
//*****

```

```
// Conformance Test Information (CTI) Template
// 1.6

// The CTI has a specified syntax but it's format is free

// Mandatory ''Manufacturer'' structure
// *****
Manufacturer = {
  // Keep the leading '' to denote a visible-string.
  Name = ''\Landis + Gyr''
  // The manufacturer's FLAG id is a part of the DUT system title
  ThreeLettersId = ''\LGZ''
}

// Mandatory ''DeviceUnderTest'' structure
// *****
DeviceUnderTest = {

  // IDISDeviceType is 100 or 101, it is part of the DUT system title
  //IDISDeviceType = 100 //mono
  IDISDeviceType = 101 //tri

  // IDISFunctionType indicates the extension(s) supported by the DUT,
  // it is also a part of the DUT system title.
  // It is a set (possibly empty) of elements
  // Extension_D, Extension_L and Extension_M
  IDISFunctionType = [Extension_D, Extension_L, Extension_M]

  // The serial number of the DUT is part of its system title.
  SerialNr = 77777712 //14396101
  Type = ''\LGZ E450_ZMXi3x0xP..S3''
}

// Optional ''TestOptions''
TestOptions = {
}

// Mandatory ''ObjectMode'' structure
// *****
// It defines the variant of the object model that the iCTT uses for testing.
ObjectModel = {
  // Optional objects implemented
  OptionalObjects = ''\
    + '1-0:0.9.1.255|1,' // Local Time (@86)
    + '1-0:0.9.2.255|1,' // Local Date (@90)
    + '0-2:96.3.10.255|70,' // Load Mgmt - Relay control 2 (@205)
    + '1-0:9.8.0.255|3,' // Apparent energy import (+VA) (QI+QIV) (@406)
    + '1-0:10.8.0.255|3,' // Apparent energy export (-VA) (QII+QIII) (@412)
    + '1-0:5.8.1.255|3,' // Reactive energy (QI) rate 1 (@515)
    + '1-0:5.8.2.255|3,' // Reactive energy (QI) rate 2 (@521)
    + '1-0:5.8.3.255|3,' // Reactive energy (QI) rate 3 (@527)
    + '1-0:5.8.4.255|3,' // Reactive energy (QI) rate 4 (@533)
    + '1-0:6.8.1.255|3,' // Reactive energy (QII) rate 1 (@539)
    + '1-0:6.8.2.255|3,' // Reactive energy (QII) rate 2 (@545)
    + '1-0:6.8.3.255|3,' // Reactive energy (QII) rate 3 (@551)
    + '1-0:6.8.4.255|3,' // Reactive energy (QII) rate 4 (@557)
    + '1-0:7.8.1.255|3,' // Reactive energy (QIII) rate 1 (@563)
    + '1-0:7.8.2.255|3,' // Reactive energy (QIII) rate 2 (@569)
    + '1-0:7.8.3.255|3,' // Reactive energy (QIII) rate 3 (@575)
    + '1-0:7.8.4.255|3,' // Reactive energy (QIII) rate 4 (@581)
    + '1-0:8.8.1.255|3,' // Reactive energy (QIV) rate 1 (@587)
    + '1-0:8.8.2.255|3,' // Reactive energy (QIV) rate 2 (@593)
    + '1-0:8.8.3.255|3,' // Reactive energy (QIV) rate 3 (@599)
    + '1-0:8.8.4.255|3,' // Reactive energy (QIV) rate 4 (@605)
    + '1-0:9.4.0.255|5,' // Demand Register 5 - Apparent energy import (+VA) (@736)
    + '1-0:10.4.0.255|5,' // Demand Register 6 - Apparent energy export (-VA) (@749)
    + '1-0:14.7.0.255|3,' // Instantaneous net frequency; any phase (@1359)
    + '1-0:9.7.0.255|3,' // Instantaneous apparent import power (+VA) (@1395)
    + '1-0:16.24.0.255|5,' // Average Net Power (|+A|-|A|) (@1420)
    + '1-0:13.7.0.255|3,' // Instantaneous Power factor (+A/+VA) (@1446)
    + '1-0:13.5.0.255|4,' // Last Average Power factor (+A/+VA) (@1452)
    + '1-0:13.3.0.255|4,' // Minimum Power factor (+A/+VA) (@1460)
    + '1-0:0.8.2.255|3,' // Measurement Period 3 for Instantaneous values (@1468)
    + '0-1:24.6.0.255|74,' // M-Bus master port setup 2 (@1479)
    + '0-0:26.6.0.255|56' // S-FSK Reporting system list (@1978)
  ''
```

```

InstanceExtraInfo = {
  // Tariffication script table (@129)
  LogicalName = '0-0:10.0.100.255'
  ClassId = 9
  MethodExtraInfo = {
    // execute
    MethodId = 1
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // Disconnecter Control Log (@181)
  LogicalName = '0-0:99.98.2.255'
  ClassId = 7
  AttributeExtraInfo = {
    // capture_objects
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Load Mgmt - Relay control 1 (@197)
  LogicalName = '0-1:96.3.10.255'
  ClassId = 70
  AttributeExtraInfo = {
    // control_mode
    AttributeId = 4
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Load Mgmt - Relay control 2 (@205)
  LogicalName = '0-2:96.3.10.255'
  ClassId = 70
  AttributeExtraInfo = {
    // control_mode
    AttributeId = 4
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Limiter (@213)
  LogicalName = '0-0:17.0.0.255'
  ClassId = 71
  AttributeExtraInfo = {
    // actions
    AttributeId = 11
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Standard Event Log (@261)
  LogicalName = '0-0:99.98.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    // capture_objects
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Fraud Detection Log (@276)
  LogicalName = '0-0:99.98.1.255'
  ClassId = 7
  AttributeExtraInfo = {
    // capture_objects
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

```

```

InstanceExtraInfo = {
  // Power Failure Event Log (@1234)
  LogicalName = '1-0:99.97.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    // capture_objects
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Power Quality Log (@1249)
  LogicalName = '0-0:99.98.4.255'
  ClassId = 7
  AttributeExtraInfo = {
    // capture_objects
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // M-Bus Value channel 1, instance 1 (@1571)
  LogicalName = '0-1:24.2.1.255'
  ClassId = 4
  AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3
    AccessRights = [GET,SET]
  }
  MethodExtraInfo = {
    // reset
    MethodId = 1
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // M-Bus Value channel 1, instance 2 (@1579)
  LogicalName = '0-1:24.2.2.255'
  ClassId = 4
  AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3
    AccessRights = [GET,SET]
  }
  MethodExtraInfo = {
    // reset
    MethodId = 1
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // M-Bus Value channel 1, instance 3 (@1587)
  LogicalName = '0-1:24.2.3.255'
  ClassId = 4
  AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3
    AccessRights = [GET,SET]
  }
  MethodExtraInfo = {
    // reset
    MethodId = 1
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // M-Bus Value channel 1, instance 4 (@1595)
  LogicalName = '0-1:24.2.4.255'
  ClassId = 4
  AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3

```

```

        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 2, instance 1 (@1603)
    LogicalName = '0-2:24.2.1.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 2, instance 2 (@1611)
    LogicalName = '0-2:24.2.2.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 2, instance 3 (@1619)
    LogicalName = '0-2:24.2.3.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 2, instance 4 (@1627)
    LogicalName = '0-2:24.2.4.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 3, instance 1 (@1635)
    LogicalName = '0-3:24.2.1.255'
    ClassId = 4

```



```

    AttributeExtraInfo = {
        // scaler unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 3, instance 2 (@1643)
    LogicalName = '0-3:24.2.2.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 3, instance 3 (@1651)
    LogicalName = '0-3:24.2.3.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 3, instance 4 (@1659)
    LogicalName = '0-3:24.2.4.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 4, instance 1 (@1667)
    LogicalName = '0-4:24.2.1.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {

```

```

// M-Bus Value channel 4, instance 2 (@1675)
LogicalName = '0-4:24.2.2.255'
ClassId = 4
  AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3
    AccessRights = [GET,SET]
  }
  MethodExtraInfo = {
    // reset
    MethodId = 1
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
// M-Bus Value channel 4, instance 3 (@1683)
LogicalName = '0-4:24.2.3.255'
ClassId = 4
  AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3
    AccessRights = [GET,SET]
  }
  MethodExtraInfo = {
    // reset
    MethodId = 1
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
// M-Bus Value channel 4, instance 4 (@1691)
LogicalName = '0-4:24.2.4.255'
ClassId = 4
  AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3
    AccessRights = [GET,SET]
  }
  MethodExtraInfo = {
    // reset
    MethodId = 1
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
// M-Bus Master Control log object 1 (@1850)
LogicalName = '0-1:24.5.0.255'
ClassId = 7
  AttributeExtraInfo = {
    // capture_objects
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
// M-Bus Master Control log object 2 (@1861)
LogicalName = '0-2:24.5.0.255'
ClassId = 7
  AttributeExtraInfo = {
    // capture_objects
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
// M-Bus Master Control log object 3 (@1872)
LogicalName = '0-3:24.5.0.255'
ClassId = 7
  AttributeExtraInfo = {
    // capture_objects
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

```

```

    }
}

InstanceExtraInfo = {
// M-Bus Master Control log object 4 (@1883)
LogicalName = '0-4:24.5.0.255'
ClassId = 7
  AttributeExtraInfo = {
// capture_objects
AttributeId = 3
AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
// M-Bus Event Log (@1898)
LogicalName = '0-0:99.98.3.255'
ClassId = 7
  AttributeExtraInfo = {
// capture_objects
AttributeId = 3
AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
// S-FSK MAC counters (@1962)
LogicalName = '0-0:26.3.0.255'
ClassId = 53
  AttributeExtraInfo = {
// repetitions_counter
AttributeId = 5
AccessRights = [GET,SET]
  }
  AttributeExtraInfo = {
// transmissions_counter
AttributeId = 6
AccessRights = [GET,SET]
  }
  AttributeExtraInfo = {
// CRC_OK_frames_counter
AttributeId = 7
AccessRights = [GET,SET]
  }
  AttributeExtraInfo = {
// CRC_NOK_frames_counter
AttributeId = 8
AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
// Set value for Consumer Message Text
LogicalName = '0-0:96.13.0.255'
ClassId = 1
  AttributeExtraInfo = {
AttributeId = 2
SetData = '\<Data><OctetString Value="3132333435363738" /></Data>'
  }
}

InstanceExtraInfo = {
// Set value for Error register value
LogicalName = '0-0:97.97.0.255'
ClassId = 1
  AttributeExtraInfo = {
AttributeId = 2
SetData = '\<Data><DoubleLongUnsigned Value="00000000" /></Data>'
  }
}

InstanceExtraInfo = {
// Set clock to 05/11/2013 12:29:52
LogicalName = '0-0:1.0.0.255'
ClassId = 8
  AttributeExtraInfo = {
AttributeId = 2

```

```

        SetData = '\<Data><OctetString Value="07DD0908FF080000FF8000FF" /></Data>'
    }
}

InstanceExtraInfo = {
// Set special days to 30 entries
LogicalName = '0-0:11.0.0.255'
ClassId = 11
AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data>'
        <Array Qty="1E" >'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0101FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0102FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0103FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0104FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0105FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0106FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0107FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0108FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0109FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF010AFF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0201FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0202FF" />'
                <Unsigned Value="02" />'
            </Structure>'
            <Structure Qty="03" >'
                <LongUnsigned Value="0001" />'
                <OctetString Value="FFFF0203FF" />'
                <Unsigned Value="02" />'
            </Structure>'
        </Data>'
}

```

```

+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0204FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0205FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0206FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0207FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0208FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0209FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF020AFF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0301FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0302FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0303FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0304FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0305FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0306FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0307FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0308FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'

```



```

FCTxValue = 100
}

// Mandatory 'SecurityElements'
// *****
// There is one structure per client, each specifies an 'EncryptionKey'
// and a 'Policy'. An encryption key is a visible-string of 32 characters,
// with each pair encoding one byte of a 16 bytes binary key.
// Policy is one of NO_SECURITY, AUTHENTICATION, ENCRYPTION or AUTHENTICATION_AND_ENCRYPTION
// StandardSecurityElements
// Mandatory, used for the standard access (DC and Java API).
// No context name is required. The DC selects the context according
// to the 'Policy' member. If zero, then the DC generates an AARQ with LONG_NAMES context.
// If positive then the DC generates an AARQ with LONG_NAME_WITH_CIPHERING context.
StandardSecurityElements = {
  Public = {
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }
  Management = {
    //MechanismName = HIGH_LEVEL_SECURITY_GMAC//LOW_LEVEL_SECURITY
    //Policy = NO_SECURITY//ENCRYPTION//NO_SECURITY//AUTHENTICATION_AND_ENCRYPTION
    //Password = '\12345678'
    ContextName = LONG_NAMES_WITH_CIPHERING //LONG_NAMES_WITH_CIPHERING//LONG_NAMES
    MechanismName = HIGH_LEVEL_SECURITY_GMAC //HIGH_LEVEL_SECURITY_GMAC//LOW_LEVEL_SECURITY
    Policy = NO_SECURITY//ENCRYPTION//NO_SECURITY//AUTHENTICATION//AUTHENTICATION_AND_ENCRYPTION
    Password = '\12345678'
  }
  PreEstablished = {
    Policy = NO_SECURITY //ENCRYPTION//NO_SECURITY
  }
}

// TunnelSecurityElements
// Mandatory, used when making tunneled accesses.
TunnelSecurityElements = {
  Public = {
    ContextName = LONG_NAMES
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }
  Management = {
    ContextName = LONG_NAMES_WITH_CIPHERING //LONG_NAMES_WITH_CIPHERING//LONG_NAMES
    MechanismName = HIGH_LEVEL_SECURITY_GMAC //HIGH_LEVEL_SECURITY_GMAC//LOW_LEVEL_SECURITY
    Policy = AUTHENTICATION_AND_ENCRYPTION
    //ENCRYPTION//NO_SECURITY//AUTHENTICATION//AUTHENTICATION_AND_ENCRYPTION
    Password = '\12345678'
  }
  PreEstablished = {
    Policy = AUTHENTICATION_AND_ENCRYPTION
    //ENCRYPTION//NO_SECURITY//AUTHENTICATION//AUTHENTICATION_AND_ENCRYPTION
  }
}

// LocalSecurityElements
// Mandatory, used when making 'local' accesses.
LocalSecurityElements = {
  Public = {
    ContextName = LONG_NAMES
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }
  Management = {
    ContextName = LONG_NAMES_WITH_CIPHERING///LONG_NAMES
    MechanismName = HIGH_LEVEL_SECURITY_GMAC//LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
    Password = '\12345678'
  }
  PreEstablished = {
    Policy = NO_SECURITY
  }
}

// Parameters of the 'Local' HDLC Profile
HDLCProfile = {
  PhysicalLayer = {

```

```
OpeningMode = DIRECT_HDLC
  HdLcBaud = 9600
}
DataLinkLayer = {
  InactivityTimeout = 120000
  InterFrameTimeout = 100
  ResponseTimeout = 2000
  DISCToNDMTimeout = 2000
  AddressingSchemes = [ONE_BYTE_ADDRESSING]
}
}
// END CTI_Template

*****
* Miscellaneous *
*****

TestMode:                Tunnel
Test Plan Signature:     2E7528F668226F15938A849EB132DD6A
Object Model:            IDIS - object model - V1.24 (20111025)-MBUS Ref 1.xlsx
DUT system title:       4C475A6574A2CB30
DC MeterId:              LGZ6574A2CB30
Run number:              40
--

BC50E1558D8A478FEC72D8DDE355F15F
```