

Final Interoperability Test Report

FIT #: **8**
 Date: 07.11.2013
 Location: Zug, Switzerland
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APPLICANT

Company: Itron

Address:

DEVICE		
Device type	ACE431P3 PSMM	
<i>Type indication on MID certificate</i>	<i>MID Certificate No.</i>	
ACE431P3 PSMM		
<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	10	865DB305E9204A2A9B8CF8691DA7D402
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input type="checkbox"/>	0002	<input type="checkbox"/>
<i>General information about the device</i>		

FIRMWARE VERSIONS TESTED				<i>Final Integration Test No. 8</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	1.03	3.00	1.10	Passed

Elster GmbH

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #8

Device:ACE431P3 PSMM

Zug, Switzerland, 07.11.2013

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FIRMWARE VERSIONS HISTORY				<i>Final Integration Test</i>	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	1.03	3.00	1.10	8	Passed

Fit #8

Device:ACE431P3 PSMM

Zug, Switzerland, 07.11.2013

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TEST REPORT - Firmware No. 1		
<i>Test</i>	<i>Verdict</i>	<i>Remark</i>
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	

```

*****
IDIS Conformance test report
05-NOV-2013 11:50:24
iCTT Package 1, Edition 1.1, Revision 1 (209)
Licensed to: IDIS Assoc.
Tester: info@idis-association.com
*****

```

```

*****
* Identification *
*****

```

```

Manufacturer = {
  Name = '\ITRON Metering Systems'
  ThreeLettersId = '\ITE'
}
DeviceUnderTest = {
  IDISDeviceType = 100
  IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M]
  SerialNr = 10002526
  Type = '\ACE431P3'
}

```

```

Active firmware version (1-0:0.2.0.255) = 330101010103
Active firmware version 1 (1-1:0.2.0.255) = 330102010300
Active firmware version 2 (1-2:0.2.0.255) = 300003000A1A

```

```

*****
* Summary *
*****

```

```

PASSED                198
FAILED                 0
DISABLED              40
INAPPLICABLE          4
INCONCLUSIVE          0
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

```

```

*****
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="000B" />
    </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="001E" />
    </Data>
(21) .timeout_not_addressed                              PASSED
    <Data>
      <LongUnsigned Value="0168" />
    </Data>
(22) .timeout_frame_not_OK                              PASSED
    <Data>
      <LongUnsigned Value="0028" />
    </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="0003" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0FFF" />
          <DoubleLongUnsigned Value="00000002" />
        </Structure>
        <Structure Qty="0002" >
          <LongUnsigned Value="0C01" />
          <DoubleLongUnsigned Value="00000001" />
        </Structure>
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="0000000F" />
        </Structure>
      </Array>
    </Data>
(25) .desynchronization_listing                          PASSED
    <Data>
      <Structure Qty="0005" >
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="0000000C" />
        <DoubleLongUnsigned Value="00000006" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Data>
(26) .broadcast_frames_counter                           PASSED
    <Data>
      <Array Qty="0003" >

```

```

    <Structure Qty="0002" >
      <LongUnsigned Value="0C01" />
      <DoubleLongUnsigned Value="00000002" />
    </Structure>
    <Structure Qty="0002" >
      <LongUnsigned Value="0C00" />
      <DoubleLongUnsigned Value="00000053" />
    </Structure>
    <Structure Qty="0002" >
      <LongUnsigned Value="0000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Array>
</Data>
(27) .repetitions_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="000000B7" />
  </Data>
(28) .transmissions_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="000000A0" />
  </Data>
(29) .CRC_OK_frames_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="000003CC" />
  </Data>
(30) .CRC_NOK_frames_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="00000001" />
  </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 INAPPLICABLE
  Optional object is not implemented
(35) .reporting_system_list INAPPLICABLE
  Optional object is not implemented

*****
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="\0000000010002526" />
</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="\E-meter equipment identifier" />
</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="\Function location" />
</Data>
```

```
Mngmt Get Device ID 4 0-0:96.1.3.255 (@58)
(7) .logical_name PASSED
```

```
<Data>
  <OctetString Value="0000600103FF" />
</Data>
```

```
(8) .value PASSED
```

```
<Data>
  <OctetString Value="\Location information" />
</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="\General purpose identification" />
</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="\IDIS_CERTIF" />
</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="\ITE1000710002526" />
    </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="\ITE1000710002526" />
    </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="330101010103" />
    </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 PASSED
    <Data>
      <OctetString Value="471864D5" />
    </Data>

```

```

Mngmt Get Active firmware version 1 1-1:0.2.0.255 (@329)
(5) .logical_name PASSED
    <Data>
      <OctetString Value="0101000200FF" />
    </Data>
(6) .value PASSED
    <Data>
      <OctetString Value="330102010300" />
    </Data>

```

```

Mngmt Get Active firmware version signature 1 1-1:0.2.8.255 (@333)
(7) .logical_name PASSED
    <Data>
      <OctetString Value="0101000208FF" />
    </Data>
(8) .value PASSED
    <Data>
      <OctetString Value="E1811947" />
    </Data>

```

```

Mngmt Get Active firmware version 2 1-2:0.2.0.255 (@337)

```

```
(9) .logical_name                                     PASSED
    <Data>
      <OctetString Value="0102000200FF" />
    </Data>
(10) .value                                           PASSED
    <Data>
      <OctetString Value="300003000A1A" />
    </Data>
```

Mngmt Get Active firmware version signature 2 1-2:0.2.8.255 (@341)

```
(11) .logical_name                                     PASSED
    <Data>
      <OctetString Value="0102000208FF" />
    </Data>
(12) .value                                           PASSED
    <Data>
      <OctetString Value="241D2708" />
    </Data>
```

 Test Case 8 : Broadcast Clock <as set in CTI>, 1 item(s)

Pre Set Clock 0-0:1.0.0.255 (@75)

```
(1) .time                                             PASSED
    <Data>
      <OctetString Value="07DD0B05FF121D34FF8000FF" />
    </Data>
```

 Test Case 9 : Read Clock, 1 item(s)

Mngmt Get Clock 0-0:1.0.0.255 (@75)

```
(1) .time                                             PASSED
    <Data>
      <OctetString Value="07DD0B0502121E0200FFC400" />
    </Data>
```

 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                                          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>
      </Array>
    </Data>
```

```
</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 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>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <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 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="0000" />
      <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="0002" />
      <OctetString Value="FFFF0103FF" />
      <Unsigned Value="02" />
    </Structure>
    <Structure Qty="0003" >
      <LongUnsigned Value="0003" />
      <OctetString Value="FFFF0104FF" />
      <Unsigned Value="02" />
    </Structure>
    <Structure Qty="0003" >
      <LongUnsigned Value="0004" />
      <OctetString Value="FFFF0105FF" />
      <Unsigned Value="02" />
    </Structure>
    <Structure Qty="0003" >
      <LongUnsigned Value="0005" />
      <OctetString Value="FFFF0106FF" />
      <Unsigned Value="02" />
    </Structure>
    <Structure Qty="0003" >
      <LongUnsigned Value="0006" />
      <OctetString Value="FFFF0107FF" />
      <Unsigned Value="02" />
    </Structure>
    <Structure Qty="0003" >
      <LongUnsigned Value="0007" />
      <OctetString Value="FFFF0108FF" />
      <Unsigned Value="02" />
    </Structure>
    <Structure Qty="0003" >
      <LongUnsigned Value="0008" />
      <OctetString Value="FFFF0109FF" />
      <Unsigned Value="02" />
    </Structure>
    <Structure Qty="0003" >
      <LongUnsigned Value="0009" />
      <OctetString Value="FFFF010AFF" />
      <Unsigned Value="02" />
    </Structure>
    <Structure Qty="0003" >
      <LongUnsigned Value="000A" />
      <OctetString Value="FFFF0201FF" />
      <Unsigned Value="02" />
    </Structure>
  </Array>
```

```
<LongUnsigned Value="000B" />
<OctetString Value="FFFF0202FF" />
<Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000C" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000D" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000E" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000F" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0010" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0011" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0012" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0013" />
  <OctetString Value="FFFF020AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0014" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0015" />
  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0016" />
  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0017" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0018" />
```

```

    <OctetString Value="FFFF0305FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0019" />
    <OctetString Value="FFFF0306FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001A" />
    <OctetString Value="FFFF0307FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001B" />
    <OctetString Value="FFFF0308FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001C" />
    <OctetString Value="FFFF0309FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001D" />
    <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

PASSED

```

  entries_in_use: 6
  <Data>
    <DoubleLongUnsigned Value="00000006" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0003" >
      <Structure Qty="0004" >
        <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>
  Buffer has 6 elements:
  <Data>

```

```

<Array Qty="0006" >
  <Structure Qty="0003" >
    <OctetString Value="07DA0C1F05002321008000FF" />
    <Enum Value="FF" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0003" >
    <OctetString Value="07DB050107000016008000FF" />
    <Enum Value="3E" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0003" >
    <OctetString Value="07DB050107000018008000FF" />
    <Enum Value="3F" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0003" >
    <OctetString Value="07DB05010700001A008000FF" />
    <Enum Value="3E" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0003" >
    <OctetString Value="07DB05010700001C008000FF" />
    <Enum Value="3F" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0003" >
    <OctetString Value="07DD0A1F04132F16008000FF" />
    <Enum Value="3D" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</Data>

```

Earliest date: 31-DEC-2010 00:35:33, latest date: 31-OCT-2013 19:47:22
 Middle date: 01-MAY-2011 00:00:26

Mngmt Get Standard Event Log 0-0:99.98.0.255 (@261)

(2) .buffer

PASSED

entries_in_use: 87

```

<Data>
  <DoubleLongUnsigned Value="00000057" />
</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="0000600B00FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Array>
</Data>

```

Buffer has 87 elements:

```

<_Data>
  <Array Qty="0057" >
    <Structure Qty="0002" >
      <OctetString Value="07DA0C1F05002321008000FF" />
      <Enum Value="FF" />
    </Structure>

```



```
<Structure Qty="0002" >
  <OctetString Value="07DA0C1F05002325008000FF" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA0C1F0500232C008000FF" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA0C1F05002339008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA0C1F05173B3B008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB010106000005008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB011F01173B3B008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB020102000005008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB021C01173B3B008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB030102000005008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB031F04173B3B008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB040105000006008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB041E06173B3B008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000006008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000006008000FF" />
  <Enum Value="30" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000007008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000008008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000009008000FF" />
```

```
<Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700000E008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000014008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000015008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000016008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700001F008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000021008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000024008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000026008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000028008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700002A008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700002C008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700002F008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000031008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000033008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000035008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000037008000FF" />
  <Enum Value="2F" />
</Structure>
```

```
<Structure Qty="0002" >
  <OctetString Value="07DB05010700003A008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000100008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000102008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000104008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000106008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000108008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700010B008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700010D008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700010F008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000111008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000113008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000116008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000118008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700011A008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700011C008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700011E008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000120008000FF" />
```

```
<Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000123008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000125008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000127008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000129008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700012B008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700012C008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700012D008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700012E008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB05010700012F008000FF" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000210008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A1F04132D26008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A1F04132E04008000FF" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A1F04132E19008000FF" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A1F04132F19008000FF" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0401092427008000FF" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B04010A331B008000FF" />
  <Enum Value="01" />
</Structure>
```

```
<Structure Qty="0002" >
  <OctetString Value="07DD0B04010A3824008000FF" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B04010B1411008000FF" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A0009008000FF" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A132B008000FF" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A1330008000FF" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A220B008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A3B32008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020B0209008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020B3B32008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020C0037008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020C3B32008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020D002D008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020D3B32008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020E0032008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020E3B32008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020F003A008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020F3B32008000FF" />
```

```

    <Enum Value="05" />
  </Structure>
</Structure Qty="0002" >
  <OctetString Value="07DD0B0502110F11008000FF" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D34008000FF" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121E1B008000FF" />
  <Enum Value="2F" />
</Structure>
</Array>
</_Data>

```

Earliest date: 31-DEC-2010 00:35:33, latest date: 05-NOV-2013 18:30:27
 Middle date: 01-MAY-2011 00:01:17

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

(3) .buffer

PASSED

```

  entries_in_use: 7
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </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="0000600B01FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>

```

Buffer has 7 elements:

```

  <Data>
    <Array Qty="0007" >
      <Structure Qty="0002" >
        <OctetString Value="07DA0C1F05002321008000FF" />
        <Enum Value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DB05010700001F008000FF" />
        <Enum Value="2C" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DB050107000021008000FF" />
        <Enum Value="2D" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DB050107000024008000FF" />
        <Enum Value="2C" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DB050107000026008000FF" />
        <Enum Value="2D" />
      </Structure>
      <Structure Qty="0002" >

```

```

    <OctetString Value="07DB05010700012B008000FF" />
    <Enum Value="2C" />
  </Structure>
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050210201F008000FF" />
  <Enum Value="2E" />
</Structure>
</Array>
</Data>

```

Earliest date: 31-DEC-2010 00:35:33, latest date: 05-NOV-2013 16:32:31
 Middle date: 01-MAY-2011 00:00:36

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

(4) .buffer

PASSED

entries_in_use: 10

```

<Data>
  <DoubleLongUnsigned Value="0000000A" />
</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="0000600B04FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Array>
</Data>

```

Buffer has 10 elements:

```

<Data>
  <Array Qty="000A" >
    <Structure Qty="0002" >
      <OctetString Value="07DA0C1F05002322008000FF" />
      <Enum Value="FF" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DA0C1F05002324008000FF" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DB030102000002008000FF" />
      <Enum Value="4F" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DB050107000118008000FF" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DB05010700011A008000FF" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DB05010700011C008000FF" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DB05010700011E008000FF" />
      <Enum Value="55" />
    </Structure>
  </Array>

```

```

    <Structure Qty="0002" >
      <OctetString Value="07DD0A1F04132E03008000FF" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0A1F04132E38008000FF" />
      <Enum Value="4F" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0A1F04132F18008000FF" />
      <Enum Value="55" />
    </Structure>
  </Array>
</Data>

```

Earliest date: 31-DEC-2010 00:35:34, latest date: 31-OCT-2013 19:47:24
 Middle date: 01-MAY-2011 00:01:28

 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

PASSED

```

  entries_in_use: 7
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </Data>
  capture_objects:
  <_Data>
    <Array Qty="0015" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100010801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100010802FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020802FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0001180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </_Data>

```



```
<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>
<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>
<Structure Qty="0004" >
  <LongUnsigned Value="0004" />
  <OctetString Value="0003180201FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
<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>
```

```

<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>
Buffer has 7 elements:
<_Data>
  <Array Qty="0007" >
    <Structure Qty="0015" >
      <OctetString Value="07DB010106000000008000FF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Structure>
    <Structure Qty="0015" >
      <OctetString Value="07DB020102000000008000FF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Structure>
  </Array>
</_Data>

```



```

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>
        <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="0002D27B" />
    </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="32" />
    </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>
(15) .primary_address PASSED
    <Data>
      <Unsigned Value="02" />
    </Data>
(16) .identification_number PASSED
    <Data>
      <DoubleLongUnsigned Value="0002D27C" />
    </Data>
(17) .manufacturer_id PASSED
    <Data>
      <LongUnsigned Value="19AC" />
    </Data>
(18) .version PASSED
    <Data>
      <Unsigned Value="02" />
    </Data>
(19) .device_type PASSED
    <Data>
      <Unsigned Value="03" />
    </Data>
(20) .access_number PASSED
    <Data>
      <Unsigned Value="31" />
    </Data>
(21) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>
(22) .alarm PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1527)
(23) .mbus_port_reference PASSED
    <Data>
      <OctetString Value="0000180600FF" />
    </Data>

```

```

(24) .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>
(25) .capture_period PASSED
    <Data>
      <DoubleLongUnsigned Value="00000E10" />
    </Data>
(26) .primary_address PASSED
    <Data>
      <Unsigned Value="03" />
    </Data>
(27) .identification_number PASSED
    <Data>
      <DoubleLongUnsigned Value="0002D27D" />
    </Data>
(28) .manufacturer_id PASSED
    <Data>
      <LongUnsigned Value="19AC" />
    </Data>
(29) .version PASSED
    <Data>
      <Unsigned Value="02" />
    </Data>
(30) .device_type PASSED
    <Data>
      <Unsigned Value="03" />
    </Data>
(31) .access_number PASSED
    <Data>
      <Unsigned Value="29" />
    </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="0002D27E" />
  </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="3A" />
  </Data>
(43) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </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="05F5DD1B" />
  </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="000004BD" />
    </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="000004AD" />
    </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="05F5DD1C" />
    </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="000004AA" />
    </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="05F5DD24" />
    </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="000004B3" />
    </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="\00000540018495512" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1703)

```

```

(110) .value                                     PASSED
      <Data>
        <OctetString Value="\00000540018495612" />
      </Data>

Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1707)
(111) .value                                     PASSED
      <Data>
        <OctetString Value="\00000540018495712" />
      </Data>

Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1711)
(112) .value                                     PASSED
      <Data>
        <OctetString Value="\00000540018495812" />
      </Data>

Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1747)
(113) .buffer                                     PASSED
      entries_in_use: 8
      <Data>
        <DoubleLongUnsigned Value="00000008" />
      </Data>
      capture_objects:
      <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>
      Buffer has 8 elements:
      <_Data>

```

```
<Array Qty="0008" >
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020B0000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD1B" />
    <OctetString Value="00000000000004BD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020C0000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD1B" />
    <OctetString Value="00000000000004BD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020D0000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD1B" />
    <OctetString Value="00000000000004BD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020E0000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD1B" />
    <OctetString Value="00000000000004BD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020F0000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD1B" />
    <OctetString Value="00000000000004BD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B0502100000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD1B" />
    <OctetString Value="00000000000004BD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B0502110000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD1B" />
    <OctetString Value="00000000000004BD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B0502121D34008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD1B" />
    <OctetString Value="00000000000004BD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
</Array>
```

```

    </_Data>
    Earliest date: 05-NOV-2013 11:00:00, latest date: 05-NOV-2013 18:29:52
    Middle date: 05-NOV-2013 15:00:00
(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="00000008" />
    </Data>

Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1758)
(117) .buffer                                           PASSED
    entries_in_use: 8
    <Data>
      <DoubleLongUnsigned Value="00000008" />
    </Data>
    capture_objects:
    <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>
Buffer has 8 elements:
<_Data>
  <Array Qty="0008" >
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020B0000008000FF" />
      <Unsigned Value="00" />
      <OctetString Value="0000000005F5DD18" />
      <OctetString Value="00000000000004AD" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020C0000008000FF" />
      <Unsigned Value="00" />
      <OctetString Value="0000000005F5DD18" />
      <OctetString Value="00000000000004AD" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020D0000008000FF" />
      <Unsigned Value="00" />
      <OctetString Value="0000000005F5DD18" />
      <OctetString Value="00000000000004AD" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020E0000008000FF" />
      <Unsigned Value="00" />
      <OctetString Value="0000000005F5DD18" />
      <OctetString Value="00000000000004AD" />

```

```

    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020F0000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD18" />
    <OctetString Value="000000000000004AD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B0502100000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD18" />
    <OctetString Value="000000000000004AD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B0502110000008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD18" />
    <OctetString Value="000000000000004AD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B0502121D34008000FF" />
    <Unsigned Value="00" />
    <OctetString Value="0000000005F5DD18" />
    <OctetString Value="000000000000004AD" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
</Array>

```

</_Data>

Earliest date: 05-NOV-2013 11:00:00, latest date: 05-NOV-2013 18:29:52
Middle date: 05-NOV-2013 15:00:00

(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>
  </Array>

```

```

    <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="00000008" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 3 0-3:24.3.0.255 (@1769)
(121) .buffer PASSED
  entries_in_use: 8
  <Data>
    <DoubleLongUnsigned Value="00000008" />
  </Data>
  capture_objects:
  <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>
      <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>

```



```

    <LongUnsigned Value="0000" />
  </Structure>
</Array>
</Data>
Buffer has 8 elements:
  <_Data>
    <Array Qty="0008" >
      <Structure Qty="0006" >
        <OctetString Value="07DD0B05020B0000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000005F5DD1C" />
        <OctetString Value="00000000000004AA" />
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD0B05020C0000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000005F5DD1C" />
        <OctetString Value="00000000000004AA" />
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD0B05020D0000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000005F5DD1C" />
        <OctetString Value="00000000000004AA" />
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD0B05020E0000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000005F5DD1C" />
        <OctetString Value="00000000000004AA" />
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD0B05020F0000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000005F5DD1C" />
        <OctetString Value="00000000000004AA" />
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD0B0502100000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000005F5DD1C" />
        <OctetString Value="00000000000004AA" />
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD0B0502110000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000005F5DD1C" />
        <OctetString Value="00000000000004AA" />
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD0B0502121D34008000FF" />
        <Unsigned Value="00" />

```

```

    <OctetString Value="0000000005F5DD1C" />
    <OctetString Value="00000000000004AA" />
    <OctetString Value="0000000000000000" />
    <OctetString Value="0000000000000000" />
  </Structure>
</Array>
</_Data>
Earliest date: 05-NOV-2013 11:00:00, latest date: 05-NOV-2013 18:29:52
Middle date: 05-NOV-2013 15:00:00
(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>
      <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="00000008" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1780)
(125) .buffer PASSED
  entries_in_use: 8
  <Data>
    <DoubleLongUnsigned Value="00000008" />
  </Data>
  capture_objects:

```

```

<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>
Buffer has 8 elements:
<_Data>
  <Array Qty="0008" >
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020B0000008000FF" />
      <Unsigned Value="00" />
      <OctetString Value="0000000005F5DD24" />
      <OctetString Value="000000000000004B3" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020C0000008000FF" />
      <Unsigned Value="00" />
      <OctetString Value="0000000005F5DD24" />
      <OctetString Value="000000000000004B3" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020D0000008000FF" />
      <Unsigned Value="00" />
      <OctetString Value="0000000005F5DD24" />
      <OctetString Value="000000000000004B3" />
      <OctetString Value="0000000000000000" />
      <OctetString Value="0000000000000000" />
    </Structure>
  </Array>

```

```

</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B05020E0000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000005F5DD24" />
  <OctetString Value="00000000000004B3" />
  <OctetString Value="0000000000000000" />
  <OctetString Value="0000000000000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B05020F0000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000005F5DD24" />
  <OctetString Value="00000000000004B3" />
  <OctetString Value="0000000000000000" />
  <OctetString Value="0000000000000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B0502100000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000005F5DD24" />
  <OctetString Value="00000000000004B3" />
  <OctetString Value="0000000000000000" />
  <OctetString Value="0000000000000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B0502110000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000005F5DD24" />
  <OctetString Value="00000000000004B3" />
  <OctetString Value="0000000000000000" />
  <OctetString Value="0000000000000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B0502121D34008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000005F5DD24" />
  <OctetString Value="00000000000004B3" />
  <OctetString Value="0000000000000000" />
  <OctetString Value="0000000000000000" />
</Structure>
</Array>
</_Data>

```

Earliest date: 05-NOV-2013 11:00:00, latest date: 05-NOV-2013 18:29:52

Middle date: 05-NOV-2013 15:00:00

(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>
  </Array>

```

```

    <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="00000008" />
  </Data>

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1898)
(129) .buffer PASSED
  entries_in_use: 13
  <Data>
    <DoubleLongUnsigned Value="0000000D" />
  </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 13 elements:
  <_Data>
    <Array Qty="000D" >
      <Structure Qty="0002" >
        <OctetString Value="07DA0C1F05002321008000FF" />
        <Enum Value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DB05010700010F008000FF" />
        <Enum Value="68" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DB050107000111008000FF" />
        <Enum Value="68" />
      </Structure>
    </Array>
  </_Data>

```

```

</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000113008000FF" />
  <Enum Value="68" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DB050107000115008000FF" />
  <Enum Value="68" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A1427008000FF" />
  <Enum Value="69" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A1427008000FF" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A150F008000FF" />
  <Enum Value="73" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A150F008000FF" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A1526008000FF" />
  <Enum Value="7D" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A1526008000FF" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A1601008000FF" />
  <Enum Value="87" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A1601008000FF" />
  <Enum Value="FE" />
</Structure>
</Array>
</_Data>

```

Earliest date: 31-DEC-2010 00:35:33, latest date: 05-NOV-2013 10:22:01
 Middle date: 05-NOV-2013 10:20:39

(130) .entries_in_use PASSED
 <Data>
 <DoubleLongUnsigned Value="0000000D" />
 </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="000B" />
    </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="001E" />
  </Data>
(21) .timeout_not_addressed PASSED
  <Data>
    <LongUnsigned Value="0168" />
  </Data>
(22) .timeout_frame_not_OK PASSED
  <Data>
    <LongUnsigned Value="0028" />
  </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="0003" >
      <Structure Qty="0002" >
        <LongUnsigned Value="0FFF" />
        <DoubleLongUnsigned Value="00000002" />
      </Structure>
      <Structure Qty="0002" >
        <LongUnsigned Value="0C01" />
        <DoubleLongUnsigned Value="00000001" />
      </Structure>
      <Structure Qty="0002" >
        <LongUnsigned Value="0C00" />
        <DoubleLongUnsigned Value="0000000F" />
      </Structure>
    </Array>
  </Data>
(25) .desynchronization_listing PASSED
  <Data>
    <Structure Qty="0005" >
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="0000000C" />
      <DoubleLongUnsigned Value="00000006" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Data>
(26) .broadcast_frames_counter PASSED
  <Data>
    <Array Qty="0003" >
      <Structure Qty="0002" >
        <LongUnsigned Value="0C01" />

```



```

        <DoubleLongUnsigned Value="00000002" />
    </Structure>
    <Structure Qty="0002" >
        <LongUnsigned Value="0C00" />
        <DoubleLongUnsigned Value="00000053" />
    </Structure>
    <Structure Qty="0002" >
        <LongUnsigned Value="0000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
</Array>
</Data>
(27) .repetitions_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="000000D5" />
    </Data>
(28) .transmissions_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="000001B3" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="0000092B" />
    </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 INAPPLICABLE
    Optional object is not implemented
(35) .reporting_system_list INAPPLICABLE
    Optional object is not implemented

```

```

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

```

```

// 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 = '\\ITRON Metering Systems'
// The manufacturer's FLAG id is a part of the DUT system title
ThreeLettersId = '\\ITE'
}

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

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

// 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 pa part of its syste title.
SerialNr = 10002526
Type='\\ACE431P3'

}

// Optional 'TestOptions'
TestOptions = {
}

// Mandatory 'ObjectModel' structure
// *****
// It defines the current values of the optional elements of the object model.
// These are the optional objects, the optional access rights of attributes and/or
// methods. Also, default values for writing attributes can also be defined here.

ObjectModel = {

// Optional objects implemented
OptionalObjects = '\\'
+ '1-1:0.2.0.255|1,' // Active firmware version 1 (@329)
+ '1-1:0.2.8.255|1,' // Active firmware version signature 1 (@333)
+ '1-2:0.2.0.255|1,' // Active firmware version 2 (@337)
+ '1-2:0.2.8.255|1,' // Active firmware version signature 2 (@341)
+ '1-0:9.8.0.255|3,' // Apparent energy import (+VA) (QI+QIV) (@406)
+ '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)
+ '1-0:15.8.1.255|3,' // Active energy Combined total (|+A|+|-A|) rate 1 (@659)
+ '1-0:15.8.2.255|3,' // Active energy Combined total (|+A|+|-A|) rate 2 (@665)
+ '1-0:15.8.3.255|3,' // Active energy Combined total (|+A|+|-A|) rate 3 (@671)
+ '1-0:15.8.4.255|3,' // Active energy Combined total (|+A|+|-A|) rate 4 (@677)
+ '1-0:9.4.0.255|5,' // Demand Register 5 - Apparent energy import (+VA) (@736)
+ '1-0:9.6.0.255|4,' // Maximum Demand Register 21 - Apparent energy import (+VA) (@970)

```

```

+ '1-0:9.6.1.255|4,' // Maximum Demand Register 22 - Apparent energy import (+VA) - rate 1
(@978)
+ '1-0:9.6.2.255|4,' // Maximum Demand Register 23 - Apparent energy import (+VA) - rate 2
(@986)
+ '1-0:9.6.3.255|4,' // Maximum Demand Register 24 - Apparent energy import (+VA) - rate 3
(@994)
+ '1-0:9.6.4.255|4' // Maximum Demand Register 25 - Apparent energy import (+VA) - rate 4
(@1002)

```

```

// An optional list of InstanceExtraInfo can be specified. Each InstanceExtraInfo is used
// to specify optional elements of instances.

```

```

InstanceExtraInfo = {
  // Current association (@9)
  LogicalName = '0-0:40.0.0.255'
  ClassId = 15
  AttributeExtraInfo = {
    // authentication_mechanism_name
    AttributeId = 6
    AccessRights = [GET,SET]
  }
  AttributeExtraInfo = {
    // secret
    AttributeId = 7
    SetData = '\<Data><OctetString Value = "3132333435363738" /></Data>'
    AccessRights = [SET]
  }
  MethodExtraInfo = {
    // change_HLS_secret
    MethodId = 2
    AccessRights = [ACTION]
  }
}

```

```

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

```

```

InstanceExtraInfo = {
  // M-Bus client channel 1 (@1483)
  LogicalName = '0-1:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // capture
    MethodId = 3
    AccessRights = [ACTION]
  }
}

```

```

InstanceExtraInfo = {
  // M-Bus client channel 2 (@1505)
  LogicalName = '0-2:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // capture
    MethodId = 3
  }
}

```

```

    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // M-Bus client channel 3 (@1527)
  LogicalName = '0-3:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // capture
    MethodId = 3
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // M-Bus client channel 4 (@1549)
  LogicalName = '0-4:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // capture
    MethodId = 3
    AccessRights = [ACTION]
  }
}

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="07DD0B05FF121D34FF8000FF" /></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>'
+ '    <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" />'
+ '    </Structure>'
```

```

+'      <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" />'
+'      <OctetString Value="FFFF0309FF" />'
+'      <Unsigned Value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned Value="0001" />'
+'      <OctetString Value="FFFF030AFF" />'
+'      <Unsigned Value="02" />'
+'    </Structure>'
+'  </Array>'
+'</Data>'
}

```

```

}

// Mandatory 'TestParameters' structure
// *****
// Defines miscellaneous values used during the test
TestParameters = {

    // After starting a discovery, the tool polls
    // the meters network until it finds the meter specified by 'MeterId'.
    // This polling will last at least the specified time (in ms).
    MeterDiscoveryTimeout = 400000

    // The 'DefaultAccessTimeout' is the time (in ms) allowed to complete an
    // access (read, write or action)
    DefaultAccessTimeout = 240000

    // The accesses have a priority between 1 (highest priority) and 10 (lowest priority)
    DefaultPriority = 5

    // Optional delay (in ms) after executing the Disconnecter Control (class 70)
    // connect and disconnect actions performed directly or via a script table.
    ConnectDisconnectDelay = 20000

    // Mandatory DC system title
    // DCSystemTitle = '4341486300A7D8F7' //'58585A0102030405'
    DCSystemTitle = '4C475A1169000000' //FIT DC

    // Mandatory structure for the ImageTransfer
    ImageTransfer = {
        // Image identifier as passed to the image_transfer_initiate method
        ImageIdentifier =
'4143540D0A54533D31303841323838380D0A414D4D5F4E4C525F434F444450D0A52454C330D0A315F50484153450D0A4D
49430D0A48573D58582E59592E5A5A0D0A4C5246573D30312E30322E30300D0A4E4C5246573D30312E30302E30310D0A'
        // lph compress NLR v1.0
        // Filename of the image to transfer. If no filepath is given, then the file
        // is supposed to be in the same directory as the CTI file
        ImageFileName = '\nlr_program_internal_lph_comp_chk_download.bin'
        // Time (in ms) that the iCTT loops reading the image_transfer status waiting for changes
        Timeout = 8000
    }
}

// Mandatory 'PLCConfig' structure
// *****
// The PLCConfig is set before each test session. The various members are
// defined in the appropriate document. The values defined hereafter are
// the default values
PLCConfig = {
    AddrMAC = 0xC00
    TimeoutNotAddr = 360
    MaxSubFrames = 7
    TimeUpdatePeriod = 0
    BkgTaskEnabled = 1
    BkgMinDelay = 60
    DiscoverTimeSlots = 20
    ResponseProbability = 100
    MaxCredit = 2
    DiscoverPeriod = 0 // was 60, disable periodic discovery
    TransmissionGain = 0
    ReceptionGain = 8
    BaudRate = 1
    InputFrequency = 0

```

```

NbComOkDecrCredit = 3
DecrCredit = 1
IncrCredit = 2
MaxRetry = 1
RepeaterCallEnabled = 0
RepeaterCallLevel = 1000
NewBcplTSlotCount = 10
AlarmMngtEnabled = 0 // was 1, Disable alarms
AlarmMngtDelay = 0
AutoDiscoveryPriority = 2
FCTxValue = 0
}

// Mandatory 'SecurityElements'
// *****
// There are 3 sets of 'SecurityElements', one for each test mode
// (Standard, Tunnel, Local)

// Each set contains one structure per client, each with the following members:

// ContextName: either LONG_NAMES or LONG_NAMES_WITH_CIPHERING
// MechanismName: either LOWEST_LEVEL_SECURITY, LOW_LEVEL_SECURITY or HIGH_LEVEL_SECURITY_GMAC
// Policy: either NO_SECURITY, AUTHENTICATION, ENCRYPTION or AUTHENTICATION_AND_ENCRYPTION
// The policy determines how the APDU are ciphered. It is NOT the value of
// the security_policy attribute of the security setup object of the DUT.
// However, in a ciphered context, only APDU's with a ciphering 'policy' larger or equal to
// the security_policy of the DUT will be accepted.

// Password: if required by the mechanism name.

// StandardSecurityElements
// Mandatory, used for the 'standard' mode (DC via Java API).
// No context name is required since 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 = {
        ContextName = LONG_NAMES
        MechanismName = LOWEST_LEVEL_SECURITY
        Policy = NO_SECURITY
    }

    Management = {
        ContextName = LONG_NAMES_WITH_CIPHERING
        MechanismName = HIGH_LEVEL_SECURITY_GMAC
        Policy = AUTHENTICATION_AND_ENCRYPTION
        Password = '\12345678'
    }

    PreEstablished = {
        Policy = AUTHENTICATION_AND_ENCRYPTION
    }
}

// LocalSecurityElements
// Mandatory, used for the 'local' mode.
LocalSecurityElements = {

    Public = {
        ContextName = LONG_NAMES
        MechanismName = LOWEST_LEVEL_SECURITY
        Policy = NO_SECURITY

```



```

}

Management = {
  ContextName = LONG_NAMES_WITH_CIPHERING
  MechanismName = HIGH_LEVEL_SECURITY_GMAC
  Policy = NO_SECURITY // AUTHENTICATION_AND_ENCRYPTION
  Password = '\12345678'
  FrameCounterInstance = '\0-1:43.1.0.255'
}

PreEstablished = {
  Policy = NO_SECURITY
}
}

// TunnelSecurityElements
// Mandatory, used for the 'tunnel' mode.
TunnelSecurityElements = {

  Public = {
    ContextName = LONG_NAMES
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }

  Management = {
    ContextName = LONG_NAMES_WITH_CIPHERING
    MechanismName = HIGH_LEVEL_SECURITY_GMAC
    Policy = AUTHENTICATION_AND_ENCRYPTION
    Password = '\12345678'
  }

  PreEstablished = {
    Policy = AUTHENTICATION_AND_ENCRYPTION
  }
}

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

  PhysicalLayer = {
    OpeningMode = MODE_E // or DIRECT_HDLC
    HdlcBaud = 9600
  }

  DataLinkLayer = {
    InactivityTimeout = 30000
    InterFrameTimeout = 50
    ResponseTimeout = 2000
    DISCToNDMTimeout = 2000
    AddressingSchemes = [ONE_BYTE_ADDRESSING] // TWO_BYTES_ADDRESSING, FOUR_BYTES_ADDRESSING
    // For TWO and FOUR bytes addressing schemes, we have to specify also a ServerLowerMACAddress
    //ServerLowerMACAddress = 0x11
  }
}

// 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: 495445647098A05E
DC MeterId: ITE647098A05E
Run number: 251
--

CF800477DD54F1F02D2C76B4097B5B6B

```
*****
*****
IDIS Conformance test report
15-JUL-2011 12:58:42
iCTT version 1.0.3
Licensed to: FIT Cert.
Tester: igor.dremelj@landisgyr.com
*****
*****
```

```
*****
* Identification *
*****
```

```
Manufacturer = {
  Name = '\ITRON Metering Systems'
  ThreeLettersId = '\ACE'
}
DeviceUnderTest = {
  IDISDeviceType = 100
  IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M]
  SerialNr = 10091488
}
```

```
*****
* Summary *
*****
```

PASSED	110
FAILED	0
DISABLED	1554
INAPPLICABLE	0
INCONCLUSIVE	0
FATAL	0
TOTAL	1664

```
*****
Test Case 1 : Discovery, 1 item(s)
*****
(1) Meter Discovery
    PASSED
```

```
*****
Test Case 6 : Get mngmt attributes, 1127 item(s)
*****
```

```
Mngmt Get COSEM logical device name 0-0:42.0.0.255 (@42)
(20) .value
    PASSED
    <Data>
      <OctetString Value="\ACE1000710091488" />
    </Data>
```

```
Mngmt Get Device ID 1, manufacturing number 0-0:96.1.0.255
(@46)
(22) .value
```

```
                IDIS Reg No 0002 FIT_Report.txt
                PASSED
                <Data>
                <OctetString Value="\0000000010000002" />
                </Data>

Mngmt Get Clock 0-0:1.0.0.255 (@75)
(36) .time
                PASSED
                <Data>
                <OctetString Value="07DB0C120712152100FFC300" />
                </Data>

Mngmt Get Active firmware version 1-0:0.2.0.255 (@321)
(180) .value
                PASSED
                <Data>
                <OctetString Value="330101010102" />
                </Data>

Mngmt Get Active firmware version signature 1-0:0.2.8.255
(@325)
(182) .value
                PASSED
                <Data>
                <OctetString Value="4706F59D" />
                </Data>

Mngmt Get Active firmware version 1 1-1:0.2.0.255 (@329)
(184) .value
                PASSED
                <Data>
                <OctetString Value="330102010100" />
                </Data>

Mngmt Get Active firmware version signature 1 1-1:0.2.8.255
(@333)
(186) .value
                PASSED
                <Data>
                <OctetString Value="F568F550" />
                </Data>

Mngmt Get Active firmware version 2 1-2:0.2.0.255 (@337)
(188) .value
                PASSED
                <Data>
                <OctetString Value="300003000A16" />
                </Data>

Mngmt Get Active firmware version signature 2 1-2:0.2.8.255
(@341)
(190) .value
                PASSED
                <Data>
                <OctetString Value="2A595F0A" />
                </Data>
```

Mngmt Get Active energy import (+A) 1-0:1.8.0.255 (@346)
(192) .value

PASSED

<Data>
 <DoubleLongUnsigned Value="00000000" />
</Data>

(193) .scaler_unit

PASSED

<Data>
 <Structure Qty="0002" >
 <Integer Value="00" />
 <Enum Value="1E" />
 </Structure>
</Data>

Mngmt Get Active energy export (-A) 1-0:2.8.0.255 (@352)
(195) .value

PASSED

<Data>
 <DoubleLongUnsigned Value="00000000" />
</Data>

(196) .scaler_unit

PASSED

<Data>
 <Structure Qty="0002" >
 <Integer Value="00" />
 <Enum Value="1E" />
 </Structure>
</Data>

Mngmt Get Reactive energy import (+R)
(QI+QII) 1-0:3.8.0.255 (@394)

(216) .value

PASSED

<Data>
 <DoubleLongUnsigned Value="00000000" />
</Data>

(217) .scaler_unit

PASSED

<Data>
 <Structure Qty="0002" >
 <Integer Value="00" />
 <Enum Value="20" />
 </Structure>
</Data>

Mngmt Get Reactive energy export (-R)
(QIII+QIV) 1-0:4.8.0.255 (@400)

(219) .value

PASSED

<Data>
 <DoubleLongUnsigned Value="00000000" />
</Data>

(220) .scaler_unit

PASSED

```
<Data>
  <Structure Qty="0002" >
    <Integer Value="00" />
    <Enum Value="20" />
  </Structure>
</Data>
```

```
*****
Test Case 9 : Selective access of profiles, 17 item(s)
*****
```

Mngmt Get Data of billing period 1 0-0:98.1.0.255 (@146)
(1) .buffer

```
          PASSED
entries_in_use: 7
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </Data>
capture_objects:
  <Data>
    <Array Qty="0005" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100010801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100010802FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020802FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
Buffer has 7 elements:
  <_Data>
    <Array Qty="0007" >
```

IDIS Reg No 0002 FIT_Report.txt

```
<Structure Qty="0005" >  
  <OctetString Value="07DB0C050107221B008000FF" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
</Structure>  
<Structure Qty="0005" >  
  <OctetString Value="07DB0C0501072432008000FF" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
</Structure>  
<Structure Qty="0005" >  
  <OctetString Value="07DB081204113B00008000FF" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
</Structure>  
<Structure Qty="0005" >  
  <OctetString Value="07DB091207113B00008000FF" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
</Structure>  
<Structure Qty="0005" >  
  <OctetString Value="07DB0A1202113B00008000FF" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
</Structure>  
<Structure Qty="0005" >  
  <OctetString Value="07DB0B1205113B00008000FF" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
</Structure>  
<Structure Qty="0005" >  
  <OctetString Value="07DB0C1207113B00008000FF" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
  <DoubleLongUnsigned Value="00000000" />  
</Structure>  
</Array>  
</_Data>
```

Earliest date: 18-AUG-2011 17:59:00, latest date:
18-DEC-2011 17:59:00
Middle date: 18-SEP-2011 17:59:00

Mngmt Get Load profile with period 2

IDIS Reg No 0002 FIT_Report.txt
i.e. Daily Values Profile 1-0:99.2.0.255 (@1070)
(6) .buffer

```
    PASSED
entries_in_use: 27
  <Data>
    <DoubleLongUnsigned Value="0000001B" />
  </Data>
capture_objects:
  <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="0000600A02FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100010801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100010802FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020802FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
```

Buffer has 27 elements:

```
<_Data>
  <Array Qty="001B" >
    <Structure Qty="0006" >
      <OctetString Value="07DA0C1F05173B3B008000FF" />
      <Unsigned Value="24" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
```



```

        IDIS Reg No 0002 FIT_Report.txt
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB010106000000008000FF" />
        <Unsigned Value="24" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB011F01173B3B008000FF" />
        <Unsigned Value="24" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB020102000000008000FF" />
        <Unsigned Value="24" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB021C01173B3B008000FF" />
        <Unsigned Value="24" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB030102000000008000FF" />
        <Unsigned Value="24" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB031F04173B3B008000FF" />
        <Unsigned Value="2C" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB040105000000008000FF" />
        <Unsigned Value="2C" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>

```

```

        IDIS Reg No 0002 FIT_Report.txt
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB041E06173B3B008000FF" />
        <Unsigned Value="2C" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB050107000000008000FF" />
        <Unsigned Value="2C" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB0707040C1739008000FF" />
        <Unsigned Value="2C" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB0708050E1E2B008000FF" />
        <Unsigned Value="AC" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB070B010A1926008000FF" />
        <Unsigned Value="AC" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB070C020A1317008000FF" />
        <Unsigned Value="AC" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB0C0501063B12008000FF" />
        <Unsigned Value="A4" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>

```

```

        IDIS Reg No 0002 FIT_Report.txt
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB0C0501072432008000FF" />
        <Unsigned Value="A4" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB0C0602132821008000FF" />
        <Unsigned Value="A4" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB0C0703052F07008000FF" />
        <Unsigned Value="A4" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB070F050B2F13008000FF" />
        <Unsigned Value="AC" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB071006113B00008000FF" />
        <Unsigned Value="AC" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB071107113B00008000FF" />
        <Unsigned Value="AC" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
        <OctetString Value="07DB071201113B00008000FF" />
        <Unsigned Value="AC" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
    </Structure>

```

```

IDIS Reg No 0002 FIT_Report.txt
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DB081204113B00008000FF" />
  <Unsigned Value="AC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DB091207113B00008000FF" />
  <Unsigned Value="AC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DB0A1202113B00008000FF" />
  <Unsigned Value="AC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DB0B1205113B00008000FF" />
  <Unsigned Value="A4" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DB0C1207113B00008000FF" />
  <Unsigned Value="A4" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
</Array>
</_Data>

```

```

Earliest date: 31-DEC-2010 23:59:59, latest date:
18-DEC-2011 17:59:00
Middle date: 12-JUL-2011 10:19:23

```

```

*****
Test Case 22 : MBUS reference test - data management, 134 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>
        <Structure Qty="0002" >
          <OctetString Value="00" />
          <OctetString Value="00" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="00" />
          <OctetString Value="00" />
        </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="40000318" />
    </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

```

```

                IDIS Reg No 0002 FIT_Report.txt
                PASSED
                <Data>
                <Unsigned Value="1B" />
                </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="00" />
                <OctetString Value="00" />
                </Structure>
                <Structure Qty="0002" >
                <OctetString Value="00" />
                <OctetString Value="00" />
                </Structure>
                </Array>
                </Data>
(14) .capture_period
                PASSED
                <Data>
                <DoubleLongUnsigned Value="00000E10" />
                </Data>
(15) .primary_address
                PASSED
                <Data>
                <Unsigned Value="02" />
                </Data>
(16) .identification_number
                PASSED
                <Data>

```

```

        IDIS Reg No 0002 FIT_Report.txt
        <DoubleLongUnsigned Value="40000326" />
    </Data>
(17) .manufacturer_id
        PASSED
        <Data>
            <LongUnsigned Value="19AC" />
        </Data>
(18) .version
        PASSED
        <Data>
            <Unsigned Value="02" />
        </Data>
(19) .device_type
        PASSED
        <Data>
            <Unsigned Value="03" />
        </Data>
(20) .access_number
        PASSED
        <Data>
            <Unsigned Value="1B" />
        </Data>
(21) .status
        PASSED
        <Data>
            <Unsigned Value="00" />
        </Data>
(22) .alarm
        PASSED
        <Data>
            <Unsigned Value="00" />
        </Data>

Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1527)
(23) .mbus_port_reference
        PASSED
        <Data>
            <OctetString Value="0000180600FF" />
        </Data>
(24) .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="00" />
                    <OctetString Value="00" />
                </Structure>
                <Structure Qty="0002" >

```

```

        IDIS Reg No 0002 FIT_Report.txt
        <OctetString Value="00" />
        <OctetString Value="00" />
    </Structure>
</Array>
</Data>
(25) .capture_period
    PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(26) .primary_address
    PASSED
    <Data>
        <Unsigned Value="03" />
    </Data>
(27) .identification_number
    PASSED
    <Data>
        <DoubleLongUnsigned Value="40000323" />
    </Data>
(28) .manufacturer_id
    PASSED
    <Data>
        <LongUnsigned Value="19AC" />
    </Data>
(29) .version
    PASSED
    <Data>
        <Unsigned Value="02" />
    </Data>
(30) .device_type
    PASSED
    <Data>
        <Unsigned Value="03" />
    </Data>
(31) .access_number
    PASSED
    <Data>
        <Unsigned Value="1A" />
    </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="00" />
            <OctetString Value="00" />
          </Structure>
          <Structure Qty="0002" >
            <OctetString Value="00" />
            <OctetString Value="00" />
          </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="40000334" />
      </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>

```

IDIS Reg No 0002 FIT_Report.txt

```
    <Unsigned Value="1A" />
  </Data>
(43) .status
      PASSED
    <Data>
      <Unsigned Value="00" />
    </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="0000000E" />
    </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="0000000E" />
    </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="0000001B" />
      </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="0000001A" />
      </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="0000002B" />
      </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="00000029" />
      </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="00000014" />
      </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="00000013" />
      </Data>
```

```
(98) .scaler_unit
```

```

        IDIS Reg No 0002 FIT_Report.txt
        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="\00000544000031811" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1703)
(110) .value
        PASSED
    <Data>
        <OctetString Value="\00000544000032611" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1707)
(111) .value
        PASSED
    <Data>
        <OctetString Value="\00000544000032311" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1711)
(112) .value
        PASSED
    <Data>
        <OctetString Value="\00000544000033411" />
    </Data>

Mngmt Get M-Bus Master Load profile for channel 1
0-1:24.3.0.255 (@1747)
(117) .buffer
        PASSED
    entries_in_use: 16
    <Data>
        <DoubleLongUnsigned Value="00000010" />
    </Data>
    capture_objects:
    <Data>
        <Array Qty="0004" >
            <Structure Qty="0004" >
                <LongUnsigned Value="0008" />
                <OctetString Value="0000010000FF" />
                <Integer Value="02" />
            </Structure>
        </Array>
    </Data>

```

```

        IDIS Reg No 0002 FIT_Report.txt
        <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>
</Array>
</Data>
Buffer has 16 elements:
<_Data>
    <Array Qty="0010" >
        <Structure Qty="0004" >
            <OctetString Value="07DB070F050D0000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000000E" />
            <OctetString Value="0000000000000000E" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F050E0000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000000E" />
            <OctetString Value="0000000000000000E" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F050F0000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000000E" />
            <OctetString Value="0000000000000000E" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F05100000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000000E" />
            <OctetString Value="0000000000000000E" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F05110000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000000E" />
            <OctetString Value="0000000000000000E" />
        </Structure>
    </Array>

```

```
IDIS Reg No 0002 FIT_Report.txt
<OctetString Value="07DB070F05120000008000FF" />
<Unsigned Value="00" />
<OctetString Value="0000000000000000E" />
<OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB071006113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000000E" />
  <OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB071107113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000000E" />
  <OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB071201113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000000E" />
  <OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB071201120000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000000E" />
  <OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB081204113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000000E" />
  <OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB091207113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000000E" />
  <OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB0A1202113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000000E" />
  <OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB0B1205113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000000E" />
  <OctetString Value="0000000000000000E" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB0C1207113B00008000FF" />
  <Unsigned Value="00" />
```

```

        IDIS Reg No 0002 FIT_Report.txt
        <OctetString Value="0000000000000000E" />
        <OctetString Value="0000000000000000E" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0C1207120000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000000E" />
        <OctetString Value="0000000000000000E" />
    </Structure>
</Array>
</Data>
    Earliest date: 15-JUL-2011 13:00:00, latest date:
18-DEC-2011 18:00:00
    Middle date: 18-JUL-2011 17:59:00
(118) .capture_objects
    PASSED
    <Data>
        <Array Qty="0004" >
            <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>
        </Array>
    </Data>
(119) .capture_period
    PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(120) .entries_in_use
    PASSED
    <Data>
        <DoubleLongUnsigned Value="00000010" />
    </Data>

```

Mngmt Get M-Bus Master Load profile for channel 2

IDIS Reg No 0002 FIT_Report.txt
0-2:24.3.0.255 (@1758)
(121) .buffer

PASSED
entries_in_use: 16
<Data>
 <DoubleLongUnsigned Value="00000010" />
</Data>
capture_objects:
<Data>
 <Array Qty="0004" >
 <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>
 </Array>
</Data>

Buffer has 16 elements:

<_Data>
 <Array Qty="0010" >
 <Structure Qty="0004" >
 <OctetString Value="07DB070F050D0000008000FF" />
 <Unsigned Value="00" />
 <OctetString Value="0000000000000001B" />
 <OctetString Value="0000000000000001A" />
 </Structure>
 <Structure Qty="0004" >
 <OctetString Value="07DB070F050E0000008000FF" />
 <Unsigned Value="00" />
 <OctetString Value="0000000000000001B" />
 <OctetString Value="0000000000000001A" />
 </Structure>
 <Structure Qty="0004" >
 <OctetString Value="07DB070F050F0000008000FF" />
 <Unsigned Value="00" />
 <OctetString Value="0000000000000001B" />
 <OctetString Value="0000000000000001A" />
 </Structure>

```
        IDIS Reg No 0002 FIT_Report.txt
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB070F05100000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB070F05110000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB070F05120000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB071006113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB071107113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB071201113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB071201120000008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB081204113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
  <OctetString Value="07DB091207113B00008000FF" />
  <Unsigned Value="00" />
  <OctetString Value="0000000000000001B" />
  <OctetString Value="0000000000000001A" />
</Structure>
<Structure Qty="0004" >
```

```

        IDIS Reg No 0002 FIT_Report.txt
        <OctetString Value="07DB0A1202113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000001B" />
        <OctetString Value="0000000000000001A" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0B1205113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000001B" />
        <OctetString Value="0000000000000001A" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0C1207113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000001B" />
        <OctetString Value="0000000000000001A" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0C1207120000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000001B" />
        <OctetString Value="0000000000000001A" />
    </Structure>
</Array>
</_Data>
    Earliest date: 15-JUL-2011 13:00:00, latest date:
18-DEC-2011 18:00:00
    Middle date: 18-JUL-2011 17:59:00
(122) .capture_objects
    PASSED
<Data>
    <Array Qty="0004" >
        <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>
    </Array>

```

```

        IDIS Reg No 0002 FIT_Report.txt
    </Array>
</Data>
(123) .capture_period
    PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(124) .entries_in_use
    PASSED
    <Data>
        <DoubleLongUnsigned Value="00000010" />
    </Data>

```

Mngmt Get M-Bus Master Load profile for channel 3
0-3:24.3.0.255 (@1769)

```

(125) .buffer
    PASSED
    entries_in_use: 16
    <Data>
        <DoubleLongUnsigned Value="00000010" />
    </Data>
    capture_objects:
    <Data>
        <Array Qty="0004" >
            <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>
            <Structure Qty="0004" >
                <LongUnsigned Value="0004" />
                <OctetString Value="0003180202FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
        </Array>
    </Data>
    Buffer has 16 elements:
    <_Data>
        <Array Qty="0010" >
            <Structure Qty="0004" >
                <OctetString Value="07DB070F050D0000008000FF" />
                <Unsigned Value="00" />

```

```

        IDIS Reg No 0002 FIT_Report.txt
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB070F050E0000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB070F050F0000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB070F05100000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB070F05110000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB070F05120000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB071006113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB071107113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB071201113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB071201120000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="000000000000002B" />
        <OctetString Value="0000000000000029" />
    </Structure>

```

```
        IDIS Reg No 0002 FIT_Report.txt
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB081204113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000002B" />
        <OctetString Value="00000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB091207113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000002B" />
        <OctetString Value="00000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0A1202113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000002B" />
        <OctetString Value="00000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0B1205113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000002B" />
        <OctetString Value="00000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0C1207113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000002B" />
        <OctetString Value="00000000000000029" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0C1207120000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000002B" />
        <OctetString Value="00000000000000029" />
    </Structure>
</Array>
</_Data>
```

Earliest date: 15-JUL-2011 13:00:00, latest date:
18-DEC-2011 18:00:00

Middle date: 18-JUL-2011 17:59:00
(126) .capture_objects
PASSED

```
<Data>
    <Array Qty="0004" >
        <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" />
        </Structure>
    </Array>
</Data>
```

```

        IDIS Reg No 0002 FIT_Report.txt
        <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0003180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0003180202FF" />
        <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="00000010" />
    </Data>

```

Mngmt Get M-Bus Master Load profile for channel 4
0-4:24.3.0.255 (@1780)

```

(129) .buffer
    PASSED
    entries_in_use: 16
    <Data>
        <DoubleLongUnsigned Value="00000010" />
    </Data>
    capture_objects:
    <Data>
        <Array Qty="0004" >
            <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>
        </Array>
    </Data>

```

```

        IDIS Reg No 0002 FIT_Report.txt
    <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180202FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
</Array>
</Data>
Buffer has 16 elements:
<_Data>
    <Array Qty="0010" >
        <Structure Qty="0004" >
            <OctetString Value="07DB070F050D0000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000014" />
            <OctetString Value="0000000000000013" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F050E0000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000014" />
            <OctetString Value="0000000000000013" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F050F0000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000014" />
            <OctetString Value="0000000000000013" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F05100000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000014" />
            <OctetString Value="0000000000000013" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F05110000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000014" />
            <OctetString Value="0000000000000013" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB070F05120000008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000014" />
            <OctetString Value="0000000000000013" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB071006113B00008000FF" />
            <Unsigned Value="00" />
            <OctetString Value="0000000000000014" />
            <OctetString Value="0000000000000013" />
        </Structure>
        <Structure Qty="0004" >
            <OctetString Value="07DB071107113B00008000FF" />
            <Unsigned Value="00" />

```



```

        IDIS Reg No 0002 FIT_Report.txt
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB071201113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB07120112000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB081204113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB091207113B01008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0A1202113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0B1205113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0C1207113B00008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
    <Structure Qty="0004" >
        <OctetString Value="07DB0C120712000008000FF" />
        <Unsigned Value="00" />
        <OctetString Value="0000000000000014" />
        <OctetString Value="0000000000000013" />
    </Structure>
</Array>
</_Data>

```

Earliest date: 15-JUL-2011 13:00:00, latest date:
 18-DEC-2011 18:00:00
 Middle date: 18-JUL-2011 17:59:00

```

IDIS Reg No 0002 FIT_Report.txt
(130) .capture_objects
      PASSED
      <Data>
        <Array Qty="0004" >
          <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>
        </Array>
      </Data>
(131) .capture_period
      PASSED
      <Data>
        <DoubleLongUnsigned Value="00000E10" />
      </Data>
(132) .entries_in_use
      PASSED
      <Data>
        <DoubleLongUnsigned Value="00000010" />
      </Data>

```

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1898)

```

(133) .buffer
      PASSED
      entries_in_use: 13
      <Data>
        <DoubleLongUnsigned Value="0000000D" />
      </Data>
      capture_objects:
      <Data>
        <Array Qty="0002" >
          <Structure Qty="0004" >
            <LongUnsigned Value="0008" />
            <OctetString Value="0000010000FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
          </Structure>
        </Array>
      </Data>

```

```

        IDIS Reg No 0002 FIT_Report.txt
    </Structure>
    <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0000600B03FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
</Array>
</Data>
Buffer has 13 elements:
<_Data>
    <Array Qty="000D" >
        <Structure Qty="0002" >
            <OctetString Value="07DA0C1F05002321008000FF" />
            <Enum Value="FF" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB050107000105008000FF" />
            <Enum Value="68" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB050107000108008000FF" />
            <Enum Value="68" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB05010700010A008000FF" />
            <Enum Value="68" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB05010700010C008000FF" />
            <Enum Value="68" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB070F050C052B008000FF" />
            <Enum Value="FE" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB070F050C0827008000FF" />
            <Enum Value="FE" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB070F050C0835008000FF" />
            <Enum Value="FE" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB070F050C0912008000FF" />
            <Enum Value="FE" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB070F050C0F19008000FF" />
            <Enum Value="FE" />
        </Structure>
        <Structure Qty="0002" >
            <OctetString Value="07DB070F050C0F2F008000FF" />
            <Enum Value="FE" />
        </Structure>
    </Array>
</_Data>

```

```

        IDIS Reg No 0002 FIT_Report.txt
        <Structure Qty="0002" >
          <OctetString Value="07DB070F050C1004008000FF" />
          <Enum Value="FE" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="07DB070F050C1018008000FF" />
          <Enum Value="FE" />
        </Structure>
      </Array>
    </_Data>
    Earliest date: 31-DEC-2010 00:35:33, latest date:
15-JUL-2011 12:16:24
    Middle date: 15-JUL-2011 12:08:39
    (134) .entries_in_use
        PASSED
    <Data>
      <DoubleLongUnsigned Value="0000000D" />
    </Data>

```

```

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

```

```

// 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 = '\\ITRON Metering Systems'
  // The manufacturer's FLAG id is a part of the DUT system title
  ThreeLettersId = '\\ACE'
}

```

```

// Mandatory 'DeviceUnderTest' structure
// *****

```

```

DeviceUnderTest = {

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

  // 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 pa part of its syste title.
  SerialNr = 10091488

}

```

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

// Mandatory 'ObjectModel' structure
// *****
// It defines the current values of the optional elements of the
// object model.
// These are the optional objects, the optional access rights of
// attributes and/or
// methods. Also, default values for writing attributes can also
// be defined here.

ObjectModel = {

    // Optional objects implemented
    OptionalObjects = '\
        + '1-1:0.2.0.255|1,' // Active firmware version 1 (@329)
        + '1-1:0.2.8.255|1,' // Active firmware version signature 1
        (@333)
        + '1-2:0.2.0.255|1,' // Active firmware version 2 (@337)
        + '1-2:0.2.8.255|1,' // Active firmware version signature 2
        (@341)
        + '1-0:9.8.0.255|3,' // Apparent energy import (+VA) (QI+QIV)
        (@406)
        + '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)
        + '1-0:15.8.1.255|3,' // Active energy Combined total
        (|+A|+|-A|) rate 1 (@659)
        + '1-0:15.8.2.255|3,' // Active energy Combined total
        (|+A|+|-A|) rate 2 (@665)
        + '1-0:15.8.3.255|3,' // Active energy Combined total
        (|+A|+|-A|) rate 3 (@671)
        + '1-0:15.8.4.255|3,' // Active energy Combined total
        (|+A|+|-A|) rate 4 (@677)
        + '1-0:9.4.0.255|5,' // Demand Register 5 - Apparent energy
        import (+VA) (@736)
        + '1-0:9.6.0.255|4,' // Maximum Demand Register 21 - Apparent
        energy import (+VA) (@970)
        + '1-0:9.6.1.255|4,' // Maximum Demand Register 22 - Apparent
        energy import (+VA) - rate 1 (@978)
```

IDIS Reg No 0002 FIT_Report.txt

```
+ '1-0:9.6.2.255|4,' // Maximum Demand Register 23 - Apparent
energy import (+VA) - rate 2 (@986)
+ '1-0:9.6.3.255|4,' // Maximum Demand Register 24 - Apparent
energy import (+VA) - rate 3 (@994)
+ '1-0:9.6.4.255|4' // Maximum Demand Register 25 - Apparent
energy import (+VA) - rate 4 (@1002)
```

```
// An optional list of InstanceExtraInfo can be specified.
Each InstanceExtraInfo is used
// to specify optional elements of instances.
```

```
InstanceExtraInfo = {
  // Current association (@9)
  LogicalName = '0-0:40.0.0.255'
  ClassId = 15
  AttributeExtraInfo = {
    // authentication_mechanism_name
    AttributeId = 6
    AccessRights = [GET,SET]
  }
  AttributeExtraInfo = {
    // secret
    AttributeId = 7
    SetData = '\<Data><OctetString Value = "3132333435363738"
/></Data>'
    AccessRights = [SET]
  }
  MethodExtraInfo = {
    // change_HLS_secret
    MethodId = 2
    AccessRights = [ACTION]
  }
}

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

InstanceExtraInfo = {
  // M-Bus client channel 1 (@1483)
  LogicalName = '0-1:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // capture
    MethodId = 3
    AccessRights = [ACTION]
  }
}
```

```

    }
}

InstanceExtraInfo = {
    // M-Bus client channel 2 (@1505)
    LogicalName = '0-2:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // capture
        MethodId = 3
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 3 (@1527)
    LogicalName = '0-3:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // capture
        MethodId = 3
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 4 (@1549)
    LogicalName = '0-4:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // capture
        MethodId = 3
        AccessRights = [ACTION]
    }
}

}

// Mandatory 'TestParameters' structure
// *****
// Defines miscellaneous values used during the test
TestParameters = {

    // After starting a discovery, the tool polls
    // the meters network until it finds the meter specified by
    // 'MeterId'.
    // This polling will last at least the specified time (in ms).
    MeterDiscoveryTimeout = 400000

    // The 'DefaultAccessTimeout' is the time (in ms) allowed to
    // complete an
    // access (read, write or action)
    DefaultAccessTimeout = 240000
}

```

```

                IDIS Reg No 0002 FIT_Report.txt
// The accesses have a priority between 1 (highest priority) and
10 (lowest priority)
    DefaultPriority = 5

// Optional delay (in ms) after executing the Disconnect
Control (class 70)
// connect and disconnect actions performed directly or via a
script table.
    ConnectDisconnectDelay = 20000

// Mandatory DC system title
// DCSYSTEMTITLE = '4341486300A7D8F7' //'58585A0102030405'
DCSYSTEMTITLE = '4C475A1169000000' //FIT DC

// Mandatory structure for the ImageTransfer
ImageTransfer = {
    // Image identifier as passed to the image_transfer_initiate
method
    ImageIdentifier =
'4143540D0A54533D31303841323838380D0A414D4D5F4E4C525F434F44450D0A5
2454C330D0A315F50484153450D0A4D49430D0A48573D58582E59592E5A5A0D0A4
C5246573D30312E30322E30300D0A4E4C5246573D30312E30302E30310D0A' //
lph compresse NLR v1.0
    // Filename of the image to transfer. If no filepath is given,
then the file
    // is supposed to be in the same directory as the CTI file
    ImageFileName =
'\nlr_program_internal_lph_comp_chk_download.bin'
    // Time (in ms) that the iCTT loops reading the image_transfer
status waiting for changes
    Timeout = 8000
}
}

// Mandatory 'PLCConfig' structure
// *****
// The PLCConfig is set before each test session. The various
members are
// defined in the appropriate document. The values defined
hereafter are
// the default values
PLCConfig = {
    AddrMAC = 0xC00
    TimeoutNotAddr = 360
    MaxSubFrames = 7
    TimeUpdatePeriod = 0
    BkgTaskEnabled = 1
    BkgMinDelay = 60
    DiscoverTimeSlots = 20
    ResponseProbability = 100
    MaxCredit = 2
    DiscoverPeriod = 0 // was 60, disable periodic discovery
    TransmissionGain = 0
    ReceptionGain = 8
}

```



```

BaudRate = 1
InputFrequency = 0
NbComOkDecrCredit = 3
DecrCredit = 1
IncrCredit = 2
MaxRetry = 1
RepeaterCallEnabled = 0
RepeaterCallLevel = 1000
NewBcplTSlotCount = 10
AlarmMngtEnabled = 0 // was 1, Disable alarms
AlarmMngtDelay = 0
AutoDiscoveryPriority = 2
FCTxValue = 0
}

// Mandatory 'SecurityElements'
// *****
// There are 3 sets of 'SecurityElements', one for each test
mode
// (Standard, Tunnel, Local)

// Each set contains one structure per client, each with the
following members:

// ContextName: either LONG_NAMES or LONG_NAMES_WITH_CIPHERING

// MechanismName: either LOWEST_LEVEL_SECURITY, LOW_LEVEL_SECURITY
or HIGH_LEVEL_SECURITY_GMAC

// Policy: either NO_SECURITY, AUTHENTICATION, ENCRYPTION or
AUTHENTICATION_AND_ENCRYPTION
// The policy determines how the APDU are ciphered. It is NOT the
value of
// the security_policy attribute of the security setup object of
the DUT.
// However, in a ciphered context, only APDU's with a ciphering
'policy' larger or equal to
// the security_policy of the DUT will be accepted.

// Password: if required by the mechanism name.

// StandardSecurityElements
// Mandatory, used for the 'standard' mode (DC via Java API).
// No context name is required since 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 = {
        ContextName = LONG_NAMES
        MechanismName = LOWEST_LEVEL_SECURITY
        Policy = NO_SECURITY
    }
}

```

```
}  
  
Management = {  
    ContextName = LONG_NAMES_WITH_CIPHERING  
    MechanismName = HIGH_LEVEL_SECURITY_GMAC  
    Policy = AUTHENTICATION_AND_ENCRYPTION  
    Password = '\12345678'  
}  
  
PreEstablished = {  
    Policy = AUTHENTICATION_AND_ENCRYPTION  
}  
}  
  
// LocalSecurityElements  
// Mandatory, used for the ''local'' mode.  
LocalSecurityElements = {  
  
    Public = {  
        ContextName = LONG_NAMES  
        MechanismName = LOWEST_LEVEL_SECURITY  
        Policy = NO_SECURITY  
    }  
  
    Management = {  
        ContextName = LONG_NAMES_WITH_CIPHERING  
        MechanismName = HIGH_LEVEL_SECURITY_GMAC  
        Policy = NO_SECURITY // AUTHENTICATION_AND_ENCRYPTION  
        Password = '\12345678'  
        FrameCounterInstance = '\0-1:43.1.0.255'  
    }  
  
    PreEstablished = {  
        Policy = NO_SECURITY  
    }  
}  
  
// TunnelSecurityElements  
// Mandatory, used for the ''tunnel'' mode.  
TunnelSecurityElements = {  
  
    Public = {  
        ContextName = LONG_NAMES  
        MechanismName = LOWEST_LEVEL_SECURITY  
        Policy = NO_SECURITY  
    }  
  
    Management = {  
        ContextName = LONG_NAMES_WITH_CIPHERING  
        MechanismName = HIGH_LEVEL_SECURITY_GMAC  
        Policy = AUTHENTICATION_AND_ENCRYPTION  
        Password = '\12345678'  
    }  
  
    PreEstablished = {  
        Policy = AUTHENTICATION_AND_ENCRYPTION
```

```
}  
}  
  
// Parameters of the ''Local'' HDLC Profile  
HDLCProfile = {  
  
    PhysicalLayer = {  
        OpeningMode = MODE_E // or DIRECT_HDLC  
        HdlcBaud = 9600  
    }  
  
    DataLinkLayer = {  
        InactivityTimeout = 30000  
        InterFrameTimeout = 50  
        ResponseTimeout = 2000  
        DISCToNDMTimeout = 2000  
        AddressingSchemes = [ONE_BYTE_ADDRESSING] //  
TWO_BYTES_ADDRESSING, FOUR_BYTES_ADDRESSING  
        // For TWO and FOUR bytes addressing schemes, we have to  
specify also a ServerLowerMACAddress  
        //ServerLowerMACAddress = 0x11  
    }  
}
```

// END CTI_Template

* Miscellaneous *

TestMode: Tunnel
Test Plan Signature: EDFED02FFC769F9B6A7FB812E1AF56E9
Object Model: IDIS - object model - V1.23A
(20110715)-FOR MBUS TESTS ONLY.xlsx
DUT system title: 414345647099FBE0
DC MeterId: ACE647099FBE0
Run number: 13
--

C7C682487ACC9F35CF8ED3F2C743879F