

# Final Interoperability Test Report

FIT #: **8**  
 Date: 07.11.2013  
 Location: Zug, Switzerland  
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<b>APPLICANT</b>
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Company: Elster GmbH

Address: Steinernstrasse 19-21, 55252 Mainz Kastel, Germany

<b>DEVICE</b>		
Device type	<b>AS220 + AM500</b>	
<i>Type indication on MID certificate</i>	<i>MID Certificate No.</i>	
AS220 or AS1440-W1...(CT)	T10156, T10325	
<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	28	4D3B07F346514EC9C9A6A8125B234946
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input type="checkbox"/>	0009	<input checked="" type="checkbox"/>
<i>General information about the device</i>		
Meter AS220 combined with PLC module AM500.		

<b>FIRMWARE VERSIONS TESTED</b>				<i>Final Integration Test No. 8</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	V010820.00	V030203.00		Passed with remark
2	V010820.00	V030204.03		Passed

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Elster GmbH

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Iskraemeco d.d.

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Itron

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Landis+Gyr AG

Fit #8

Device:AS220 + AM500

Zug, Switzerland, 07.11.2013

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<b>FIRMWARE VERSIONS HISTORY</b>				<i>Final Integration Test</i>	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	V010820.00	V030203.00		8	Passed with remark
2	V010820.00	V030204.03		8	Passed

<b>TEST REPORT - Firmware No. 1</b>		
<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	M-Bus Device Ids are encoded correctly. Issue with M-Bus identification numbers identified during FIT #5 is still present.  Issue is resolved in firmware version V030204.03 of AM500 module.
SAP assignment	Passed	
COSEM logical device name	Passed	
FW version and signature	Passed	
Broadcast Date and time	Passed	
Broadcast Special Days Table	Passed	
Event logs	Passed	
Billing period data	Passed	
Optical Port Connectivity	Passed	
Alarm Reporting	Passed	

<b>TEST REPORT - Firmware No. 2</b>		
<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
07-NOV-2013 10:14:38
iCTT Package 1, Edition 1.1, Revision 1 (209)
Licensed to: IDIS Assoc.
Tester: info@idis-association.com
*****

```

```

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

```

```

Manufacturer = {
  Name = '\Elster GmbH'
  ThreeLettersId = '\ELS'
}
DeviceUnderTest = {
  IDISDeviceType = 100
  IDISFunctionType = [EXTENSION_D, EXTENSION_M]
  SerialNr = 35071545
  Type = '\AS220'
}

```

```

Active firmware version (1-0:0.2.0.255) = \V010820.00
Active firmware version 1 (1-1:0.2.0.255) = \V010203.00

```

```

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

```

```

PASSED                194
FAILED                 0
DISABLED              40
INAPPLICABLE          8
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="00" />
  </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="62" />
  </Data>
(7) .frequencies PASSED
  <Data>
    <Structure Qty="0002" >
      <DoubleLongUnsigned Value="0000F744" />
      <DoubleLongUnsigned Value="00012110" />
    </Structure>
  </Data>
(8) .mac_address PASSED
  <Data>
    <LongUnsigned Value="000A" />
  </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="00" />
  </Data>
(12) .min_delta_credit PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(13) .initiator_mac_address PASSED
  <Data>
    <LongUnsigned Value="0C00" />
  </Data>
(14) .synchronization_locked PASSED
  <Data>
    <Bool Value="01" />
  </Data>
(15) .transmission_speed PASSED
  <Data>
    <Enum Value="03" />
  </Data>

Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950)
(16) .logical_name PASSED
  <Data>
    <OctetString Value="00001A0100FF" />
  </Data>
(17) .active_initiator PASSED

```

```

    <Data>
      <Structure Qty="0003" >
        <OctetString Value="4C475A1169000000" />
        <LongUnsigned Value="0C00" />
        <Unsigned Value="01" />
      </Structure>
    </Data>

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

Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)
(23) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0300FF" />
    </Data>
(24) .synchronization_register PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000001" />
        </Structure>
      </Array>
    </Data>
(25) .desynchronization_listing PASSED
    <Data>
      <Structure Qty="0005" >
        <DoubleLongUnsigned Value="00000002" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Data>
(26) .broadcast_frames_counter PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="0000000D" />
        </Structure>
      </Array>
    </Data>
(27) .repetitions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="00000000" />

```

```

    </Data>
(28) .transmissions_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="00000030" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="0000009F" />
    </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="\35071545" />
    </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="\807945T" />
    </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="" />
    </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="" />
    </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="" />
    </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="" />
    </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="\ELS1000535071545" />
        </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="\ELS1000535071545" />
</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="\V010820.00" />
</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="3F8D" />
</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="\V010203.00" />
</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="7F21668B" />
</Data>
```

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

(9) .logical\_name INAPPLICABLE

Optional object is not implemented

(10) .value INAPPLICABLE

Optional object is not implemented

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

(11) .logical\_name INAPPLICABLE

Optional object is not implemented

(12) .value INAPPLICABLE

Optional object is not implemented

```
*****
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="07DD0B0502121D3800FFC400" />
</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>
    <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>
<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="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>
  </Array>

```

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

```
<LongUnsigned Value="0001" />
<OctetString Value="FFFF0207FF" />
<Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure 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 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: 9
  <Data>
    <DoubleLongUnsigned Value="00000009" />
  </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 9 elements:

```

  <Data>
    <Array Qty="0009" >
      <Structure Qty="0003" >
        <OctetString Value="07DD0B02060B2F1C00FFC400" />
        <Enum Value="43" />
        <LongUnsigned Value="FFFF" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DD0B02060B2F1D00FFC400" />
        <Enum Value="43" />
        <LongUnsigned Value="FFFF" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DD0B06030C021F00FFC400" />
        <Enum Value="3E" />
        <LongUnsigned Value="FFFF" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DD0B06030C022900FFC400" />
        <Enum Value="3F" />
        <LongUnsigned Value="FFFF" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DD0B06030C022B00FFC400" />
        <Enum Value="3E" />
        <LongUnsigned Value="FFFF" />
      </Structure>
    </Array>
  </Data>

```

```

</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B06030C022E00FFC400" />
  <Enum Value="3F" />
  <LongUnsigned Value="FFFF" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B06030C023100FFC400" />
  <Enum Value="3E" />
  <LongUnsigned Value="FFFF" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B06030C023400FFC400" />
  <Enum Value="3F" />
  <LongUnsigned Value="FFFF" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B06030C1A3000FFC400" />
  <Enum Value="3D" />
  <LongUnsigned Value="FFFF" />
</Structure>
</Array>
</Data>

```

Earliest date: 02-NOV-2013 11:47:28, latest date: 06-NOV-2013 12:26:48  
Middle date: 06-NOV-2013 12:02:43

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

PASSED

```

entries_in_use: 100
  <Data>
    <DoubleLongUnsigned Value="00000064" />
  </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 100 elements:
  <_Data>
    <Array Qty="0064" >
      <Structure Qty="0002" >
        <OctetString Value="07DC070C04032D0200FFC480" />
        <Enum Value="04" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070C0400000000FFC480" />
        <Enum Value="05" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070C0400001A00FFC480" />
        <Enum Value="04" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070C0404000000FFC480" />

```



```
<Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0404001A00FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0408000000FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0408001A00FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C040C000000FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C040C002200FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C040C002500FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C040C002700FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C040C002A00FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C040C002F00FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C040C003B00FFC480" />
  <Enum Value="09" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C040C011B00FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C04032F2C00FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C04032F2E00FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0403363000FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0403363000FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0403363000FFC480" />
  <Enum Value="04" />
</Structure>
```

```
<Structure Qty="0002" >
  <OctetString Value="07DC070C04052A2500FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C04052D1000FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F0F00FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1000FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1100FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1100FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1200FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1300FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1300FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1400FFC400" />
  <Enum Value="09" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1400FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1400FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1500FFC400" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F1900FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F2100FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F3500FFC400" />
  <Enum Value="0A" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B2F3900FFC400" />
```

```
<Enum Value="0B" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B300C00FFC400" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B300C00FFC400" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C04042E2000FFC400" />
  <Enum Value="03" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B02060B300C00FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C04052E2000FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0406163000FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0406163000FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214282800FFC480" />
  <Enum Value="03" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0406163000FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050213282800FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502132A1100FFC400" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502132A1100FFC400" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502132A1100FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050213391100FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214070800FFC400" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214070800FFC400" />
  <Enum Value="02" />
</Structure>
```

```
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214070800FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214132C00FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214240600FFC400" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214240600FFC400" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214240600FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502152E0B00FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050215332E00FFC400" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050215332E00FFC400" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050215332E00FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030B313700FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C290C00FFC400" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C290C00FFC400" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C290C00FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C2A3100FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C2B2500FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C2D0200FFC400" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C2D0200FFC400" />
```

```
<Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C2E0800FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C2F2200FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C2F3A00FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C300C00FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C303300FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C312A00FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C322400FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C322E00FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C323600FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C330300FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C331300FFC400" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C331300FFC400" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C341E00FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C353800FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C371000FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C382B00FFC400" />
  <Enum Value="FE" />
</Structure>
```

```

<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C3A2600FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD071F03173B3B00FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD08010400001400FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD081F06173B3B00FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD09010700001400FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD091E01173B3B00FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A010200000F00FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A1F04173B3B00FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B010500002000FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B07040A093B00FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B07040A0C0F00FFC400" />
  <Enum Value="0A" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B07040A0C1600FFC400" />
  <Enum Value="0B" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B07040A123800FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D3400FFC400" />
  <Enum Value="05" />
</Structure>
</Array>
</_Data>

```

Earliest date: 12-JUL-2012 00:00:00, latest date: 07-NOV-2013 10:18:56  
Middle date: 05-NOV-2013 19:57:17

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

(3) .buffer

entries\_in\_use: 7

<Data>

<DoubleLongUnsigned Value="00000007" />

PASSED

```

</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="07DC070C04032A2F00FFC480" />
      <Enum Value="32" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC070C04032A2F00FFC480" />
      <Enum Value="31" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC070C04032A3000FFC480" />
      <Enum Value="32" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC070C04032A3000FFC480" />
      <Enum Value="31" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030B373900FFC400" />
      <Enum Value="2E" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C2A3800FFC400" />
      <Enum Value="28" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C2C0600FFC400" />
      <Enum Value="29" />
    </Structure>
  </Array>
</Data>
Earliest date: 12-JUL-2012 03:42:47, latest date: 06-NOV-2013 12:44:06
Middle date: 12-JUL-2012 03:42:48

```

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

(4) .buffer

PASSED

```

entries_in_use: 6
<Data>
  <DoubleLongUnsigned Value="00000006" />
</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>
Buffer has 6 elements:
<Data>
  <Array Qty="0006" >
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C050E00FFC400" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C060A00FFC400" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C073200FFC400" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C081400FFC400" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C083300FFC400" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C0A2900FFC400" />
      <Enum Value="55" />
    </Structure>
  </Array>
</Data>
Earliest date: 06-NOV-2013 12:05:14, latest date: 06-NOV-2013 12:10:41
Middle date: 06-NOV-2013 12:08:20

```

\*\*\*\*\*  
 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="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" />
      </Structure>
    </Array>
  </Data>

```



```

    <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" >
    <Structure Qty="0005" >
      <OctetString Value="07DC070C04023B0D00FFC480" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DD0B02060B2F0F00FFC400" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DD0B050213282800FFC400" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DD08010400000000FFC480" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DD09010700000000FFC480" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DD0A010200000000FFC480" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Array>

```

```

        </Structure>
        <Structure Qty="0005" >
            <OctetString Value="07DD0B010500000000FFC400" />
            <DoubleLongUnsigned Value="00000000" />
            <DoubleLongUnsigned Value="00000000" />
            <DoubleLongUnsigned Value="00000000" />
            <DoubleLongUnsigned Value="00000000" />
        </Structure>
    </Array>
</_Data>
Earliest date: 12-JUL-2012 02:59:13, latest date: 05-NOV-2013 19:40:40
Middle date: 01-AUG-2013 00:00:00

```

```

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

```

```

Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1483)
(1) .mbus_port_reference PASSED
    <Data>
        <OctetString Value="0000180600FF" />
    </Data>
(2) .capture_definition PASSED
    <Data>
        <Array Qty="0004" >
            <Structure Qty="0002" >
                <OctetString Value="\L" />
                <OctetString Value="933A" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="\L" />
                <OctetString Value="13" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
                <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
                <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
            </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="00293809" />
    </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="F9" />
    </Data>
(10) .status PASSED
    <Data>
      <Unsigned Value="40" />
    </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="FFFFFFFFFFFFFFFFFFFFFFFF" />
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        </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="00293810" />
    </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="95" />
  </Data>
(21) .status PASSED
  <Data>
    <Unsigned Value="40" />
  </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="FFFFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
      </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="00293812" />
  </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="CB" />
  </Data>
(32) .status PASSED

```

```

    <Data>
      <Unsigned Value="40" />
    </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="FFFFFFFFFFFFFFFFFFFFFFFF" />
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        </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="00293811" />
    </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="E4" />
    </Data>

(43) .status PASSED
    <Data>
      <Unsigned Value="40" />
    </Data>

```

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

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

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

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

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

```

    </Structure>
  </Data>
(67) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>

Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1635)
(77) .value PASSED
  <Data>
    <DoubleLongUnsigned Value="05F5DD28" />
  </Data>
(78) .scaler_unit PASSED
  <Data>
    <Structure Qty="0002" >
      <Integer Value="FD" />
      <Enum Value="0D" />
    </Structure>
  </Data>
(79) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>

Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1643)
(81) .value PASSED
  <Data>
    <DoubleLongUnsigned Value="000001E7" />
  </Data>
(82) .scaler_unit PASSED
  <Data>
    <Structure Qty="0002" >
      <Integer Value="FD" />
      <Enum Value="0E" />
    </Structure>
  </Data>
(83) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>

Mngmt Get M-Bus Value channel 4, instance 1 0-4:24.2.1.255 (@1667)
(93) .value PASSED
  <Data>
    <DoubleLongUnsigned Value="05F5DD26" />
  </Data>
(94) .scaler_unit PASSED
  <Data>
    <Structure Qty="0002" >
      <Integer Value="FD" />
      <Enum Value="0D" />
    </Structure>
  </Data>
(95) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>

Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1675)
(97) .value PASSED
  <Data>
    <DoubleLongUnsigned Value="000003CC" />
  </Data>
(98) .scaler_unit PASSED
  <Data>
    <Structure Qty="0002" >
```

```

        <Integer Value="FD" />
        <Enum Value="0E" />
    </Structure>
</Data>
(99) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 1 0-1:96.1.0.255 (@1699)
(109) .value PASSED
    <Data>
        <OctetString Value="\00000540029380911" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1703)
(110) .value PASSED
    <Data>
        <OctetString Value="\00000540029381011" />
    </Data>

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

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

Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1747)
(113) .buffer 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>
        </Array>
    </Data>

```



```

<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="07DD08010400000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD56" />
      <DoubleLongUnsigned Value="00000227" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD081F0617000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD56" />
      <DoubleLongUnsigned Value="00000227" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD09010700000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="05F5DD56" />
      <DoubleLongUnsigned Value="00000227" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD091E0117000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD56" />
      <DoubleLongUnsigned Value="00000227" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0A010200000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="05F5DD56" />
      <DoubleLongUnsigned Value="00000227" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0A1F0417000000FFC400" />
      <Unsigned Value="24" />
      <DoubleLongUnsigned Value="05F5DD56" />
      <DoubleLongUnsigned Value="00000227" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >

```

```

    <OctetString Value="07DD0B010500000000FFC400" />
    <Unsigned Value="00" />
    <DoubleLongUnsigned Value="05F5DD56" />
    <DoubleLongUnsigned Value="00000227" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B07040A000000FFC400" />
    <Unsigned Value="24" />
    <DoubleLongUnsigned Value="05F5DD56" />
    <DoubleLongUnsigned Value="00000227" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</_Data>
Earliest date: 01-AUG-2013 00:00:00, latest date: 07-NOV-2013 10:00:00
Middle date: 01-OCT-2013 00:00:00
(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="07DD08010400000000FFC480" />
        <Unsigned Value="2C" />
        <DoubleLongUnsigned Value="05F5DD18" />
        <DoubleLongUnsigned Value="000004AE" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD081F0617000000FFC480" />
        <Unsigned Value="2C" />
        <DoubleLongUnsigned Value="05F5DD18" />
        <DoubleLongUnsigned Value="000004AE" />
      </Structure>
    </Array>
  </_Data>

```

```

    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD09010700000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="05F5DD18" />
    <DoubleLongUnsigned Value="000004AE" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD091E0117000000FFC480" />
    <Unsigned Value="2C" />
    <DoubleLongUnsigned Value="05F5DD18" />
    <DoubleLongUnsigned Value="000004AE" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0A010200000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="05F5DD18" />
    <DoubleLongUnsigned Value="000004AE" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0A1F0417000000FFC400" />
    <Unsigned Value="24" />
    <DoubleLongUnsigned Value="05F5DD18" />
    <DoubleLongUnsigned Value="000004AE" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B010500000000FFC400" />
    <Unsigned Value="00" />
    <DoubleLongUnsigned Value="05F5DD18" />
    <DoubleLongUnsigned Value="000004AE" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B07040A000000FFC400" />
    <Unsigned Value="24" />
    <DoubleLongUnsigned Value="05F5DD18" />
    <DoubleLongUnsigned Value="000004AE" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</_Data>

```

Earliest date: 01-AUG-2013 00:00:00, latest date: 07-NOV-2013 10:00:00

Middle date: 01-OCT-2013 00:00:00

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

```

```

<Structure Qty="0004" >
  <LongUnsigned Value="0004" />
  <OctetString Value="0003180202FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
<Structure Qty="0004" >
  <LongUnsigned Value="0004" />
  <OctetString Value="0003180203FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
<Structure Qty="0004" >
  <LongUnsigned Value="0004" />
  <OctetString Value="0003180204FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
</Array>
</Data>
Buffer has 8 elements:
<_Data>
  <Array Qty="0008" >
    <Structure Qty="0006" >
      <OctetString Value="07DD08010400000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD28" />
      <DoubleLongUnsigned Value="000001E7" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD081F0617000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD28" />
      <DoubleLongUnsigned Value="000001E7" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD09010700000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="05F5DD28" />
      <DoubleLongUnsigned Value="000001E7" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD091E0117000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD28" />
      <DoubleLongUnsigned Value="000001E7" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0A010200000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="05F5DD28" />
      <DoubleLongUnsigned Value="000001E7" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0A1F0417000000FFC400" />
      <Unsigned Value="24" />

```

```

    <DoubleLongUnsigned Value="05F5DD28" />
    <DoubleLongUnsigned Value="000001E7" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B010500000000FFC400" />
    <Unsigned Value="00" />
    <DoubleLongUnsigned Value="05F5DD28" />
    <DoubleLongUnsigned Value="000001E7" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B07040A000000FFC400" />
    <Unsigned Value="24" />
    <DoubleLongUnsigned Value="05F5DD28" />
    <DoubleLongUnsigned Value="000001E7" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</_Data>
Earliest date: 01-AUG-2013 00:00:00, latest date: 07-NOV-2013 10:00:00
Middle date: 01-OCT-2013 00:00:00
(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="07DD08010400000000FFC480" />
            <Unsigned Value="2C" />
            <DoubleLongUnsigned Value="05F5DD26" />
            <DoubleLongUnsigned Value="000003CC" />
            <DoubleLongUnsigned Value="00000000" />
            <DoubleLongUnsigned Value="00000000" />
          </Structure>
```



```

</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD081F0617000000FFC480" />
  <Unsigned Value="2C" />
  <DoubleLongUnsigned Value="05F5DD26" />
  <DoubleLongUnsigned Value="000003CC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD09010700000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="05F5DD26" />
  <DoubleLongUnsigned Value="000003CC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD091E0117000000FFC480" />
  <Unsigned Value="2C" />
  <DoubleLongUnsigned Value="05F5DD26" />
  <DoubleLongUnsigned Value="000003CC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0A010200000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="05F5DD26" />
  <DoubleLongUnsigned Value="000003CC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0A1F0417000000FFC400" />
  <Unsigned Value="24" />
  <DoubleLongUnsigned Value="05F5DD26" />
  <DoubleLongUnsigned Value="000003CC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B010500000000FFC400" />
  <Unsigned Value="00" />
  <DoubleLongUnsigned Value="05F5DD26" />
  <DoubleLongUnsigned Value="000003CC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B07040A000000FFC400" />
  <Unsigned Value="24" />
  <DoubleLongUnsigned Value="05F5DD26" />
  <DoubleLongUnsigned Value="000003CC" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
</Array>
</_Data>

```

Earliest date: 01-AUG-2013 00:00:00, latest date: 07-NOV-2013 10:00:00  
 Middle date: 01-OCT-2013 00:00:00

(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>
<Structure Qty="0004" >
  <LongUnsigned Value="0001" />
  <OctetString Value="0004600A03FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
<Structure Qty="0004" >
  <LongUnsigned Value="0004" />
  <OctetString Value="0004180201FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
<Structure Qty="0004" >
  <LongUnsigned Value="0004" />
  <OctetString Value="0004180202FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
<Structure Qty="0004" >
  <LongUnsigned Value="0004" />
  <OctetString Value="0004180203FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
<Structure Qty="0004" >
  <LongUnsigned Value="0004" />
  <OctetString Value="0004180204FF" />
  <Integer Value="02" />
  <LongUnsigned Value="0000" />
</Structure>
</Array>
</Data>
(127) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(128) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000008" />
  </Data>

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1898)
(129) .buffer PASSED
  entries_in_use: 25
  <Data>
    <DoubleLongUnsigned Value="00000019" />
  </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>

```

```
</Array>
</Data>
Buffer has 25 elements:
<_Data>
  <Array Qty="0019" >
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C2B2500FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C2C0C00FFC400" />
      <Enum Value="67" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C2E0800FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C2E2A00FFC400" />
      <Enum Value="67" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C2F2200FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C2F3A00FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C300C00FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C303300FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C311B00FFC400" />
      <Enum Value="71" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C312A00FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C322400FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C322E00FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C323600FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C330300FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DD0B06030C341E00FFC400" />
      <Enum Value="FE" />
    </Structure>
    <Structure Qty="0002" >
```

```

    <OctetString Value="07DD0B06030C350400FFC400" />
    <Enum Value="67" />
  </Structure>
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C353800FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C362B00FFC400" />
  <Enum Value="71" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C371000FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C372800FFC400" />
  <Enum Value="7B" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C382B00FFC400" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B06030C390A00FFC400" />
  <Enum Value="85" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B07040A0A0C00FFC400" />
  <Enum Value="64" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B07040A0A0C00FFC400" />
  <Enum Value="6E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B07040A0A0C00FFC400" />
  <Enum Value="78" />
</Structure>
</Array>
</_Data>

```

Earliest date: 06-NOV-2013 12:43:37, latest date: 07-NOV-2013 10:10:12  
 Middle date: 06-NOV-2013 12:50:54

(130) .entries\_in\_use PASSED  
 <Data>  
 <DoubleLongUnsigned Value="00000019" />  
 </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="00" />  
 </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="62" />
    </Data>
(7) .frequencies PASSED
    <Data>
      <Structure Qty="0002" >
        <DoubleLongUnsigned Value="0000F744" />
        <DoubleLongUnsigned Value="00012110" />
      </Structure>
    </Data>
(8) .mac_address PASSED
    <Data>
      <LongUnsigned Value="000A" />
    </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="00" />
    </Data>
(12) .min_delta_credit PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>
(13) .initiator_mac_address PASSED
    <Data>
      <LongUnsigned Value="0C00" />
    </Data>
(14) .synchronization_locked PASSED
    <Data>
      <Bool Value="01" />
    </Data>
(15) .transmission_speed PASSED
    <Data>
      <Enum Value="03" />
    </Data>

Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950)
(16) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0100FF" />
    </Data>
(17) .active_initiator PASSED
    <Data>
      <Structure Qty="0003" >
        <OctetString Value="4C475A1169000000" />

```

```

    <LongUnsigned Value="0C00" />
    <Unsigned Value="01" />
  </Structure>
</Data>

```

Mngmt Get S-FSK MAC synchronisation timeouts 0-0:26.2.0.255 (@1955)

```

(18) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0200FF" />
    </Data>
(19) .search_initiator_timeout PASSED
    <Data>
      <LongUnsigned Value="0258" />
    </Data>
(20) .synchronization_confirmation_timeout PASSED
    <Data>
      <LongUnsigned Value="0005" />
    </Data>
(21) .timeout_not_addressed PASSED
    <Data>
      <LongUnsigned Value="0168" />
    </Data>
(22) .timeout_frame_not_OK PASSED
    <Data>
      <LongUnsigned Value="001E" />
    </Data>

```

Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)

```

(23) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0300FF" />
    </Data>
(24) .synchronization_register PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000001" />
        </Structure>
      </Array>
    </Data>
(25) .desynchronization_listing PASSED
    <Data>
      <Structure Qty="0005" >
        <DoubleLongUnsigned Value="00000002" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Data>
(26) .broadcast_frames_counter PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="0000000D" />
        </Structure>
      </Array>
    </Data>
(27) .repetitions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="00000000" />
    </Data>
(28) .transmissions_counter PASSED
    <Data>

```

```

        <DoubleLongUnsigned Value="00000133" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="000006A7" />
    </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

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

// AS220 (single phase)
// CTI: ELS IDIS FIT#3 2012-07-10 Kranj
// Last update: 2012-07-10, NM

Manufacturer = {
    Name = '\Elster GmbH'
    ThreeLettersId = '\ELS'
}

DeviceUnderTest = {
    IDISDeviceType = 100
    IDISFunctionType = [Extension_D, Extension_M]
    SerialNr = 35071545
    Type = '\AS220'
}

ObjectModel = {

// Optional objects implemented
// Optional objects implemented
OptionalObjects = '\
+ '0-2:96.3.10.255|70,' // Load Mgmt - Relay control 2 (@205)
+ '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)
+ '1-0:5.8.1.255|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)
```

```
InstanceExtraInfo = {
  // Activity Calendar (@100)
  LogicalName = '0-0:13.0.0.255'
  ClassId = 20
  MethodExtraInfo = {
    // activate_passive_calendar
    MethodId = 1
    AccessRights = [ACTION]
  }
}
```

```
InstanceExtraInfo = {
  // Predefined Scripts - MDI reset / end of billing period (@135)
  LogicalName = '0-0:10.0.1.255'
  ClassId = 9
  AttributeExtraInfo = {
    // scripts
    AttributeId = 2
    AccessRights = [GET]
  }
}
```

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

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

```
InstanceExtraInfo = {
  // Limiter (@213)
  LogicalName = '0-0:17.0.0.255'
  ClassId = 71
  AttributeExtraInfo = {
    // actions
```



```
        AttributeId = 11
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // Predefined Scripts - Image activation (@316)
    LogicalName = '0-0:10.0.107.255'
    ClassId = 9
    AttributeExtraInfo = {
        // scripts
        AttributeId = 2
        AccessRights = [GET]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 1 (@1483)
    LogicalName = '0-1:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 2 (@1505)
    LogicalName = '0-2:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 3 (@1527)
    LogicalName = '0-3:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 4 (@1549)
    LogicalName = '0-4:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 1, instance 1 (@1571)
    LogicalName = '0-1:24.2.1.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
```

```
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

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

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

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

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

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

InstanceExtraInfo = {
    // M-Bus Value channel 2, instance 3 (@1619)
    LogicalName = '0-2:24.2.3.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
```

```
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

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

InstanceExtraInfo = {
    // M-Bus Value channel 3, instance 1 (@1635)
    LogicalName = '0-3:24.2.1.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

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

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

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

InstanceExtraInfo = {
    // M-Bus Value channel 4, instance 1 (@1667)
    LogicalName = '0-4:24.2.1.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
```

```
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

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

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

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

InstanceExtraInfo = {
    // S-FSK MAC counters (@1962)
    LogicalName = '0-0:26.3.0.255'
    ClassId = 53
    MethodExtraInfo = {
        // reset
        MethodId = 1
        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" />'
+ '        <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>'
+'
+' }
+'
+' }

```

```

TestParameters = {
  MeterDiscoveryTimeout = 240000
  DefaultAccessTimeout = 240000
  DefaultPriority = 5
  ConnectDisconnectDelay = 4000
  // DCSYSTEMTITLE = '4C475A4954000002' //KEMA PLC MODEM
  DCSYSTEMTITLE = '4C475A1169000000' //FIT PLC MODEM

  ImageTransfer = {
    ImageIdentifier = '\AM50001.01.01.00-00000'
    ImageFileName = '\FW_AM50001.01.01.00-00000_meter.bin'
    Timeout = 120000
  }
}

```

```

TestOptions = {
}

```

```

PLCCONFIG = {
  AddrMAC = 0xC00
  TimeoutNotAddr = 360
  MaxSubFrames = 7
  TimeUpdatePeriod = 0
  BkgTaskEnabled = 1
  BkgMinDelay = 60
  DiscoverTimeSlots = 20
  ResponseProbability = 100
  MaxCredit = 2
  DiscoverPeriod = 0
  TransmissionGain = 0
  ReceptionGain = 8
  BaudRate = 1
  InputFrequency = 0
  NbComOkDecrCredit = 3
  DecrCredit = 1
  IncrCredit = 2
  MaxRetry = 1
  RepeaterCallEnabled = 0
  RepeaterCallLevel = 1000
  NewBcplTSlotCount = 10
}

```

```
AlarmMngtEnabled = 0
AlarmMngtDelay = 0
AutoDiscoveryPriority = 2
FCTxValue = 0
}

StandardSecurityElements = {

  Public = {
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }

  Management = {
    MechanismName = LOW_LEVEL_SECURITY
    Policy = NO_SECURITY
    Password = '\12345678'
  }

  PreEstablished = {
    Policy = NO_SECURITY
  }
}

LocalSecurityElements = {

  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
  }
}

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
  }
}

HDLCProfile = {
```



```
PhysicalLayer = {
  // EchoingPort = FALSE
  OpeningMode = DIRECT_HDLC
  HdlcBaud = 9600
}

DataLinkLayer = {
  InactivityTimeout = 120000
  InterFrameTimeout = 50
  ResponseTimeout = 2000
  ServerLowerMacAddress = 0x11
  DISCToNDMTimeout = 0
  AddressingSchemes = [ONE_BYTE_ADDRESSING, TWO_BYTES_ADDRESSING, FOUR_BYTES_ADDRESSING]
}
}
```

```
*****
* Miscellaneous *
*****
```

```
TestMode:                Tunnel
Test Plan Signature:      2E7528F668226F15938A849EB132DD6A
Object Model:             IDIS - object model - V1.24 (20111025)-MBUS Ref 1.xlsx
DUT system title:        454C536452172639
DC MeterId:              ELS6452172639
Run number:              325
--
```

```
825D2588EB5102A8FB65B70D12C2FAFC
```

```

*****
IDIS Conformance test report
05-NOV-2013 11:50:23
iCTT Package 1, Edition 1.1, Revision 1 (209)
Licensed to: IDIS Assoc.
Tester: info@idis-association.com
*****

```

```

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

```

```

Manufacturer = {
  Name = '\Elster GmbH'
  ThreeLettersId = '\ELS'
}
DeviceUnderTest = {
  IDISDeviceType = 100
  IDISFunctionType = [EXTENSION_D, EXTENSION_M]
  SerialNr = 35071545
  Type = '\AS220'
}

```

```

Active firmware version (1-0:0.2.0.255) = \V010820.00
Active firmware version 1 (1-1:0.2.0.255) = \V010204.03

```

```

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

```

```

PASSED          194
FAILED          0
DISABLED        40
INAPPLICABLE    8
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="04" />
  </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="62" />
  </Data>
(7) .frequencies PASSED
  <Data>
    <Structure Qty="0002" >
      <DoubleLongUnsigned Value="0000F744" />
      <DoubleLongUnsigned Value="00012110" />
    </Structure>
  </Data>
(8) .mac_address PASSED
  <Data>
    <LongUnsigned Value="000A" />
  </Data>
(9) .mac_group_addresses PASSED
  <Data>
    <Array Qty="0005" >
      <LongUnsigned Value="0000" />
      <LongUnsigned Value="0000" />
      <LongUnsigned Value="0000" />
      <LongUnsigned Value="0000" />
      <LongUnsigned Value="0000" />
    </Array>
  </Data>
(10) .repeater PASSED
  <Data>
    <Enum Value="02" />
  </Data>
(11) .repeater_status PASSED
  <Data>
    <Bool Value="01" />
  </Data>
(12) .min_delta_credit PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(13) .initiator_mac_address PASSED
  <Data>
    <LongUnsigned Value="0C00" />
  </Data>
(14) .synchronization_locked PASSED
  <Data>
    <Bool Value="01" />
  </Data>
(15) .transmission_speed PASSED
  <Data>
    <Enum Value="03" />
  </Data>

Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950)
(16) .logical_name PASSED
  <Data>
    <OctetString Value="00001A0100FF" />
  </Data>
(17) .active_initiator PASSED

```

```

    <Data>
      <Structure Qty="0003" >
        <OctetString Value="4C475A1169000000" />
        <LongUnsigned Value="0C00" />
        <Unsigned Value="01" />
      </Structure>
    </Data>

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

Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)
(23) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0300FF" />
    </Data>
(24) .synchronization_register PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000014" />
        </Structure>
      </Array>
    </Data>
(25) .desynchronization_listing PASSED
    <Data>
      <Structure Qty="0005" >
        <DoubleLongUnsigned Value="00000002" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000010" />
        <DoubleLongUnsigned Value="00000003" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Data>
(26) .broadcast_frames_counter PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000058" />
        </Structure>
      </Array>
    </Data>
(27) .repetitions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="00000077" />
    </Data>

```

```

    </Data>
(28) .transmissions_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="000000E3" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="00000377" />
    </Data>
(30) .CRC_NOK_frames_counter PASSED
    <Data>
        <DoubleLongUnsigned Value="00000000" />
    </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="\35071545" />
    </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="\807945T" />
    </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="" />
  </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="" />
  </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="\EkzELS02" />
  </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="" />
  </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="\ELS1000535071545" />
      </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="\ELS1000535071545" />
</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="\V010820.00" />
</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="3F8D" />
</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="\V010204.03" />
</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="EB770A46" />
</Data>
```

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

(9) .logical\_name INAPPLICABLE

Optional object is not implemented

(10) .value INAPPLICABLE

Optional object is not implemented

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

(11) .logical\_name INAPPLICABLE

Optional object is not implemented

(12) .value INAPPLICABLE

Optional object is not implemented

```
*****
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="07DD0B0502121D3900FFC400" />
</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>
    <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>
<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="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>
  </Array>

```

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

```
<LongUnsigned Value="0001" />
<OctetString Value="FFFF0207FF" />
<Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure 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 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: 10
  <Data>
    <DoubleLongUnsigned Value="0000000A" />
  </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 10 elements:

```

  <Data>
    <Array Qty="000A" >
      <Structure Qty="0003" >
        <OctetString Value="07DC070C0400232600FFC480" />
        <Enum Value="3E" />
        <LongUnsigned Value="FFFF" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DC070C0400233600FFC480" />
        <Enum Value="3F" />
        <LongUnsigned Value="FFFF" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DC070C0400273200FFC480" />
        <Enum Value="3E" />
        <LongUnsigned Value="FFFF" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DC070C0400273800FFC480" />
        <Enum Value="3F" />
        <LongUnsigned Value="FFFF" />
      </Structure>
      <Structure Qty="0003" >
        <OctetString Value="07DD0B02060C000000FFC400" />
        <Enum Value="40" />
        <LongUnsigned Value="FFFF" />
      </Structure>
    </Array>
  </Data>

```

```

</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B02060C0A0000FFC400" />
  <Enum Value="45" />
  <LongUnsigned Value="FFFF" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B0307030E1D00FFC400" />
  <Enum Value="43" />
  <LongUnsigned Value="FFFF" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B0307030E1E00FFC400" />
  <Enum Value="43" />
  <LongUnsigned Value="FFFF" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B050200130300FFC400" />
  <Enum Value="43" />
  <LongUnsigned Value="FFFF" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DD0B050200130400FFC400" />
  <Enum Value="43" />
  <LongUnsigned Value="FFFF" />
</Structure>
</Array>
</Data>

```

Earliest date: 12-JUL-2012 00:35:38, latest date: 05-NOV-2013 00:19:04  
 Middle date: 02-NOV-2013 12:10:00

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

(2) .buffer

PASSED

entries\_in\_use: 100

```

<Data>
  <DoubleLongUnsigned Value="00000064" />
</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 100 elements:

```

<_Data>
  <Array Qty="0064" >
    <Structure Qty="0002" >
      <OctetString Value="07DC070C04002E3500FFC480" />
      <Enum Value="13" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC070C04002F2200FFC480" />
      <Enum Value="2F" />
    </Structure>
  <Structure Qty="0002" >

```

```
<OctetString Value="07DC070C04002F3100FFC480" />
<Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400300F00FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400310200FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400311500FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400320300FFC480" />
  <Enum Value="13" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400340400FFC480" />
  <Enum Value="33" />
</Structure>
<Structure Qty="0002" >
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  <Enum Value="11" />
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  <OctetString Value="07DC070C04020A2B00FFC480" />
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  <Enum Value="13" />
</Structure>
```

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</Structure>
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```



```
<OctetString Value="07DC070C0412062200FFC480" />
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</Structure>
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  <OctetString Value="07DC070C0412163800FFC480" />
  <Enum Value="01" />
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  <OctetString Value="07DC070C0412163800FFC480" />
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  <OctetString Value="07DC070D0511042E00FFC480" />
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<Structure Qty="0002" >
  <OctetString Value="07DC070D0511150100FFC480" />
  <Enum Value="01" />
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<Structure Qty="0002" >
  <OctetString Value="07DC070D0511150100FFC480" />
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<Structure Qty="0002" >
  <OctetString Value="07DC070D0511150100FFC480" />
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</Structure>
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```

```
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<Structure Qty="0002" >
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  <OctetString Value="07DD0B050200123200FFC400" />
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  <Enum Value="13" />
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  <Enum Value="13" />
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  <OctetString Value="07DD0B050200132200FFC400" />
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  <OctetString Value="07DD0B050200172300FFC400" />
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</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050200172300FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E0601150B00FFC480" />
  <Enum Value="05" />
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  <OctetString Value="07DC070E0601240000FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E0601240000FFC480" />
  <Enum Value="02" />
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  <OctetString Value="07DC070E0601240000FFC480" />
  <Enum Value="04" />
</Structure>
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  <OctetString Value="07DC070E060A240100FFC480" />
  <Enum Value="05" />
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  <OctetString Value="07DC070E060A310C00FFC480" />
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  <OctetString Value="07DD0B0502093A3200FFC400" />
  <Enum Value="01" />
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<Structure Qty="0002" >
  <OctetString Value="07DD0B0502093A3200FFC400" />
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</Structure>
```

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<Structure Qty="0002" >
  <OctetString Value="07DC070E060B021200FFC480" />
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  <Enum Value="FE" />
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<Structure Qty="0002" >
  <OctetString Value="07DC070E060B022900FFC480" />
  <Enum Value="FE" />
</Structure>
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  <OctetString Value="07DC070E060B0B3300FFC480" />
  <Enum Value="04" />
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  <OctetString Value="07DD0A1F04173B3B00FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B010500001500FFC400" />
  <Enum Value="04" />
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  <Enum Value="05" />
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  <OctetString Value="07DD0A010200012C00FFC480" />
  <Enum Value="04" />
</Structure>
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  <OctetString Value="07DD081F06173B3B00FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD09010700001B00FFC480" />
  <Enum Value="04" />
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<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A113B00FFC400" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020B373500FFC400" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D3400FFC400" />
  <Enum Value="05" />
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</Array>
</_Data>
Earliest date: 12-JUL-2012 00:46:53, latest date: 05-NOV-2013 18:29:52
Middle date: 13-JUL-2012 17:21:01
```

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

(3) .buffer

PASSED

entries\_in\_use: 30

&lt;Data&gt;

&lt;DoubleLongUnsigned Value="0000001E" /&gt;

&lt;/Data&gt;

capture\_objects:

&lt;Data&gt;

&lt;Array Qty="0002" &gt;

&lt;Structure Qty="0004" &gt;

&lt;LongUnsigned Value="0008" /&gt;

&lt;OctetString Value="0000010000FF" /&gt;

&lt;Integer Value="02" /&gt;

&lt;LongUnsigned Value="0000" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0004" &gt;

&lt;LongUnsigned Value="0001" /&gt;

&lt;OctetString Value="0000600B01FF" /&gt;

&lt;Integer Value="02" /&gt;

&lt;LongUnsigned Value="0000" /&gt;

&lt;/Structure&gt;

&lt;/Array&gt;

&lt;/Data&gt;

Buffer has 30 elements:

&lt;\_Data&gt;

&lt;Array Qty="001E" &gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C04002F2D00FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C04002F3400FFC480" /&gt;

&lt;Enum Value="32" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C04002F3400FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C0400303000FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C0400310800FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C0400312D00FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C0400321400FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C0400321800FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C0400321C00FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

&lt;Structure Qty="0002" &gt;

&lt;OctetString Value="07DC070C0400322000FFC480" /&gt;

&lt;Enum Value="31" /&gt;

&lt;/Structure&gt;

```
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400322400FFC480" />
  <Enum Value="31" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400322800FFC480" />
  <Enum Value="31" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400322C00FFC480" />
  <Enum Value="32" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400322C00FFC480" />
  <Enum Value="31" />
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  <Enum Value="31" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0400323300FFC480" />
  <Enum Value="31" />
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  <Enum Value="31" />
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  <OctetString Value="07DC070C0400331A00FFC480" />
  <Enum Value="31" />
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<Structure Qty="0002" >
  <OctetString Value="07DC070C0400332200FFC480" />
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  <Enum Value="31" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C04040B2000FFC480" />
  <Enum Value="2E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0412012400FFC480" />
  <Enum Value="28" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0412022D00FFC480" />
  <Enum Value="29" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070D0511150000FFC480" />
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</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E0600381000FFC480" />
  <Enum Value="29" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E0601042100FFC480" />
  <Enum Value="28" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E0601052900FFC480" />
```

```

    <Enum Value="29" />
  </Structure>
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E06010F3200FFC480" />
  <Enum Value="2E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A392E00FFC400" />
  <Enum Value="28" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A3A3700FFC400" />
  <Enum Value="29" />
</Structure>
</Array>
</_Data>

```

Earliest date: 12-JUL-2012 00:47:45, latest date: 05-NOV-2013 10:58:55

Middle date: 12-JUL-2012 00:50:51

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

(4) .buffer

PASSED

entries\_in\_use: 6

```

<Data>
  <DoubleLongUnsigned Value="00000006" />
</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 6 elements:

```

<Data>
  <Array Qty="0006" >
    <Structure Qty="0002" >
      <OctetString Value="07DC070C0414222F00FFC480" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC070C0414252E00FFC480" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC070C0414262E00FFC480" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC070C0414272300FFC480" />
      <Enum Value="55" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC070C0414280300FFC480" />
      <Enum Value="4C" />
    </Structure>
    <Structure Qty="0002" >

```

```

    <OctetString Value="07DC070C0414290600FFC480" />
    <Enum Value="55" />
  </Structure>
</Array>
</Data>

```

Earliest date: 12-JUL-2012 20:34:47, latest date: 12-JUL-2012 20:41:06  
 Middle date: 12-JUL-2012 20:39:35

```

*****
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: 19
  <Data>
    <DoubleLongUnsigned Value="00000013" />
  </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 19 elements:

```

  <_Data>
    <Array Qty="0013" >
      <Structure Qty="0005" >
        <OctetString Value="07DC070C04001F0800FFC480" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0005" >
        <OctetString Value="07DD0B01050C000000FFC400" />
        <DoubleLongUnsigned Value="00000000" />

```



```
<DoubleLongUnsigned Value="00000000" />
<DoubleLongUnsigned Value="00000000" />
<DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DC070C040B231900FFC480" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B01050C000000FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B01050F0C2400FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DC070C0400230C00FFC480" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B01050C000000FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B0206060A3000FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B02060B243200FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DC070C0400272800FFC480" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B02060C000000FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
```

```

</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B0307030E1100FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B050200123200FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B050209333000FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0A1F04173B3B00FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B010500000000FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0A010200000000FFC480" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD09010700000000FFC480" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DD0B05020A113B00FFC400" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
</Array>
</_Data>

```

Earliest date: 12-JUL-2012 00:31:08, latest date: 05-NOV-2013 10:17:59  
 Middle date: 12-JUL-2012 00:39:40

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

```
Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1483)
(1) .mbus_port_reference PASSED
    <Data>
      <OctetString Value="0000180600FF" />
    </Data>
(2) .capture_definition PASSED
    <Data>
      <Array Qty="0004" >
        <Structure Qty="0002" >
          <OctetString Value="\L" />
          <OctetString Value="933A" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="\L" />
          <OctetString Value="13" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
          <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        </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="0002D277" />
    </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="91" />
    </Data>
(10) .status PASSED
    <Data>
      <Unsigned Value="60" />
    </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="FFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
      </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="0002D278" />
  </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="BE" />
  </Data>
(21) .status PASSED
  <Data>
    <Unsigned Value="20" />
  </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="FFFFFFFFFFFFFFFFFFFFFF" />
      <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
      <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
    </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="0002D279" />
  </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="C0" />
  </Data>
(32) .status PASSED
  <Data>
    <Unsigned Value="20" />
  </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="FFFFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
    </Structure>
    <Structure Qty="0002" >
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
    </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="0002D27A" />
    </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="C2" />
    </Data>
(43) .status PASSED
    <Data>
        <Unsigned Value="20" />
    </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="05F5DD54" />
    </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="000004E6" />
    </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="05F5DD1B" />
    </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="000004BA" />
    </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="05F5DD21" />
    </Data>
(78) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0D" />
      </Structure>
    </Data>
```

```

    </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="000004C2" />
  </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="05F5DD18" />
  </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="000004AF" />
  </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="\00000540018495112" />
  </Data>

Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1703)
(110) .value PASSED
```



```

    <Data>
      <OctetString Value="\00000540018495212" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1707)
(111) .value PASSED
    <Data>
      <OctetString Value="\00000540018495312" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1711)
(112) .value PASSED
    <Data>
      <OctetString Value="\00000540018495412" />
    </Data>

Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1747)
(113) .buffer PASSED
  entries_in_use: 7
    <Data>
      <DoubleLongUnsigned Value="00000007" />
    </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 7 elements:
    <_Data>
      <Array Qty="0007" >

```

```
<Structure Qty="0006" >
  <OctetString Value="07DD0A1F0417000000FFC400" />
  <Unsigned Value="24" />
  <DoubleLongUnsigned Value="05F5DD54" />
  <DoubleLongUnsigned Value="000004E6" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B010500000000FFC400" />
  <Unsigned Value="00" />
  <DoubleLongUnsigned Value="05F5DD54" />
  <DoubleLongUnsigned Value="000004E6" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0A010200000000FFC480" />
  <Unsigned Value="2C" />
  <DoubleLongUnsigned Value="05F5DD54" />
  <DoubleLongUnsigned Value="000004E6" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD09010700000000FFC480" />
  <Unsigned Value="2C" />
  <DoubleLongUnsigned Value="05F5DD54" />
  <DoubleLongUnsigned Value="000004E6" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B05020A000000FFC400" />
  <Unsigned Value="24" />
  <DoubleLongUnsigned Value="05F5DD54" />
  <DoubleLongUnsigned Value="000004E6" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B05020B000000FFC400" />
  <Unsigned Value="00" />
  <DoubleLongUnsigned Value="05F5DD54" />
  <DoubleLongUnsigned Value="000004E6" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B050212000000FFC400" />
  <Unsigned Value="24" />
  <DoubleLongUnsigned Value="05F5DD54" />
  <DoubleLongUnsigned Value="000004E6" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
</Array>
```

</\_Data>

Earliest date: 01-SEP-2013 00:00:00, latest date: 05-NOV-2013 18:00:00

Middle date: 01-SEP-2013 00:00:00

(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="00000007" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1758)
(117) .buffer PASSED
  entries_in_use: 7
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </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>
    </Array>
  </Data>

```

```

    <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 7 elements:
<_Data>
  <Array Qty="0007" >
    <Structure Qty="0006" >
      <OctetString Value="07DD0A1F0417000000FFC400" />
      <Unsigned Value="24" />
      <DoubleLongUnsigned Value="05F5DD1B" />
      <DoubleLongUnsigned Value="000004BA" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B010500000000FFC400" />
      <Unsigned Value="00" />
      <DoubleLongUnsigned Value="05F5DD1B" />
      <DoubleLongUnsigned Value="000004BA" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0A010200000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD1B" />
      <DoubleLongUnsigned Value="000004BA" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD09010700000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD1B" />
      <DoubleLongUnsigned Value="000004BA" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020A000000FFC400" />
      <Unsigned Value="24" />
      <DoubleLongUnsigned Value="05F5DD1B" />
      <DoubleLongUnsigned Value="000004BA" />
      <DoubleLongUnsigned Value="00000000" />

```

```

    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020B000000FFC400" />
    <Unsigned Value="00" />
    <DoubleLongUnsigned Value="05F5DD1B" />
    <DoubleLongUnsigned Value="000004BA" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B050212000000FFC400" />
    <Unsigned Value="24" />
    <DoubleLongUnsigned Value="05F5DD1B" />
    <DoubleLongUnsigned Value="000004BA" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</_Data>

```

Earliest date: 01-SEP-2013 00:00:00, latest date: 05-NOV-2013 18:00:00

Middle date: 01-SEP-2013 00:00:00

(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>
      <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="00000007" />
    </Data>

```

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

```

(121) .buffer                                           PASSED
  entries_in_use: 7
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </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>
  Buffer has 7 elements:
  <_Data>
    <Array Qty="0007" >
      <Structure Qty="0006" >
        <OctetString Value="07DD0A1F0417000000FFC400" />
        <Unsigned Value="24" />
        <DoubleLongUnsigned Value="05F5DD21" />
        <DoubleLongUnsigned Value="000004C2" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DD0B010500000000FFC400" />

```

```

    <Unsigned Value="00" />
    <DoubleLongUnsigned Value="05F5DD21" />
    <DoubleLongUnsigned Value="000004C2" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0A010200000000FFC480" />
    <Unsigned Value="2C" />
    <DoubleLongUnsigned Value="05F5DD21" />
    <DoubleLongUnsigned Value="000004C2" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD09010700000000FFC480" />
    <Unsigned Value="2C" />
    <DoubleLongUnsigned Value="05F5DD21" />
    <DoubleLongUnsigned Value="000004C2" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020A000000FFC400" />
    <Unsigned Value="24" />
    <DoubleLongUnsigned Value="05F5DD21" />
    <DoubleLongUnsigned Value="000004C2" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B05020B000000FFC400" />
    <Unsigned Value="00" />
    <DoubleLongUnsigned Value="05F5DD21" />
    <DoubleLongUnsigned Value="000004C2" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DD0B050212000000FFC400" />
    <Unsigned Value="24" />
    <DoubleLongUnsigned Value="05F5DD21" />
    <DoubleLongUnsigned Value="000004C2" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</_Data>

```

Earliest date: 01-SEP-2013 00:00:00, latest date: 05-NOV-2013 18:00:00

Middle date: 01-SEP-2013 00:00:00

(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>
  </Array>
  <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="00000007" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1780)
(125) .buffer PASSED
  entries_in_use: 7
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </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>
    </Array>
  </Data>

```



```
</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="0006" >
      <OctetString Value="07DD0A1F0417000000FFC400" />
      <Unsigned Value="24" />
      <DoubleLongUnsigned Value="05F5DD18" />
      <DoubleLongUnsigned Value="000004AF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B010500000000FFC400" />
      <Unsigned Value="00" />
      <DoubleLongUnsigned Value="05F5DD18" />
      <DoubleLongUnsigned Value="000004AF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0A010200000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD18" />
      <DoubleLongUnsigned Value="000004AF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD09010700000000FFC480" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="05F5DD18" />
      <DoubleLongUnsigned Value="000004AF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020A000000FFC400" />
      <Unsigned Value="24" />
      <DoubleLongUnsigned Value="05F5DD18" />
      <DoubleLongUnsigned Value="000004AF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B05020B000000FFC400" />
      <Unsigned Value="00" />
      <DoubleLongUnsigned Value="05F5DD18" />
      <DoubleLongUnsigned Value="000004AF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Array>
</Data>
```

```

    <Structure Qty="0006" >
      <OctetString Value="07DD0B050212000000FFC400" />
      <Unsigned Value="24" />
      <DoubleLongUnsigned Value="05F5DD18" />
      <DoubleLongUnsigned Value="000004AF" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Array>
</_Data>
Earliest date: 01-SEP-2013 00:00:00, latest date: 05-NOV-2013 18:00:00
Middle date: 01-SEP-2013 00:00:00
(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>
      <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="00000007" />
  </Data>

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1898)
(129) .buffer PASSED
  entries_in_use: 30
  <Data>

```

```

    <DoubleLongUnsigned Value="0000001E" />
  </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 30 elements:
  <_Data>
    <Array Qty="001E" >
      <Structure Qty="0002" >
        <OctetString Value="07DC070C0412032E00FFC480" />
        <Enum Value="64" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070C0412032E00FFC480" />
        <Enum Value="6E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070D0511042B00FFC480" />
        <Enum Value="82" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070D0511042E00FFC480" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070D0511050900FFC480" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070D0511051800FFC480" />
        <Enum Value="82" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070D0511051B00FFC480" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070D0511053B00FFC480" />
        <Enum Value="82" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070D0511061200FFC480" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070E060B020800FFC480" />
        <Enum Value="FE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC070E060B021200FFC480" />
        <Enum Value="FE" />
      </Structure>
    </Array>
  </_Data>

```

```
<Structure Qty="0002" >
  <OctetString Value="07DC070E060B021E00FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E060B022900FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E060B060500FFC480" />
  <Enum Value="68" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E060B060500FFC480" />
  <Enum Value="72" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E060B060500FFC480" />
  <Enum Value="7C" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070E060B060500FFC480" />
  <Enum Value="86" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A010200001F00FFC480" />
  <Enum Value="68" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A010200001F00FFC480" />
  <Enum Value="72" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A010200001F00FFC480" />
  <Enum Value="7C" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0A010200001F00FFC480" />
  <Enum Value="86" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A130F00FFC400" />
  <Enum Value="68" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A130F00FFC400" />
  <Enum Value="72" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A130F00FFC400" />
  <Enum Value="7C" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020A130F00FFC400" />
  <Enum Value="86" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B05020B071000FFC400" />
  <Enum Value="67" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D3900FFC400" />
  <Enum Value="68" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D3900FFC400" />
```

```

    <Enum Value="72" />
  </Structure>
  <Structure Qty="0002" >
    <OctetString Value="07DD0B0502121D3900FFC400" />
    <Enum Value="7C" />
  </Structure>
  <Structure Qty="0002" >
    <OctetString Value="07DD0B0502121D3900FFC400" />
    <Enum Value="86" />
  </Structure>
</Array>
</_Data>

```

Earliest date: 12-JUL-2012 18:03:46, latest date: 05-NOV-2013 18:29:57

Middle date: 14-JUL-2012 11:06:05

```

(130) .entries_in_use                                     PASSED
  <Data>
    <DoubleLongUnsigned Value="0000001E" />
  </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="04" />
  </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="62" />
  </Data>
(7) .frequencies                                       PASSED
  <Data>
    <Structure Qty="0002" >
      <DoubleLongUnsigned Value="0000F744" />
      <DoubleLongUnsigned Value="00012110" />
    </Structure>
  </Data>
(8) .mac_address                                       PASSED
  <Data>
    <LongUnsigned Value="000A" />
  </Data>
(9) .mac_group_addresses                               PASSED
  <Data>
    <Array Qty="0005" >
      <LongUnsigned Value="0000" />
      <LongUnsigned Value="0000" />
      <LongUnsigned Value="0000" />
      <LongUnsigned Value="0000" />
    </Array>
  </Data>

```

```

    <LongUnsigned Value="0000" />
  </Array>
</Data>
(10) .repeater PASSED
  <Data>
    <Enum Value="02" />
  </Data>
(11) .repeater_status PASSED
  <Data>
    <Bool Value="01" />
  </Data>
(12) .min_delta_credit PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(13) .initiator_mac_address PASSED
  <Data>
    <LongUnsigned Value="0C00" />
  </Data>
(14) .synchronization_locked PASSED
  <Data>
    <Bool Value="01" />
  </Data>
(15) .transmission_speed PASSED
  <Data>
    <Enum Value="03" />
  </Data>

Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950)
(16) .logical_name PASSED
  <Data>
    <OctetString Value="00001A0100FF" />
  </Data>
(17) .active_initiator PASSED
  <Data>
    <Structure Qty="0003" >
      <OctetString Value="4C475A1169000000" />
      <LongUnsigned Value="0C00" />
      <Unsigned Value="01" />
    </Structure>
  </Data>

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

Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)
(23) .logical_name PASSED
```

```

    <Data>
      <OctetString Value="00001A0300FF" />
    </Data>
(24) .synchronization_register PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000014" />
        </Structure>
      </Array>
    </Data>
(25) .desynchronization_listing PASSED
    <Data>
      <Structure Qty="0005" >
        <DoubleLongUnsigned Value="00000002" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000010" />
        <DoubleLongUnsigned Value="00000003" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Data>
(26) .broadcast_frames_counter PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000058" />
        </Structure>
      </Array>
    </Data>
(27) .repetitions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="00000095" />
    </Data>
(28) .transmissions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="000001F1" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="000008C0" />
    </Data>
(30) .CRC_NOK_frames_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="00000000" />
    </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 *
*****

```

```

// AS220 (single phase)
// CTI: ELS IDIS FIT#3 2012-07-10 Kranj
// Last update: 2012-07-10, NM

```

```

Manufacturer = {
  Name = '\Elster GmbH'
  ThreeLettersId = '\ELS'
}

```

```

DeviceUnderTest = {
  IDISDeviceType = 100
  IDISFunctionType = [Extension_D, Extension_M]
  SerialNr = 35071545
  Type = '\AS220'
}

```

```

ObjectModel = {

```

```

// Optional objects implemented
// Optional objects implemented
OptionalObjects = '\
+ '0-2:96.3.10.255|70,' // Load Mgmt - Relay control 2 (@205)
+ '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)
+ '1-0:5.8.1.255|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)

```

```

InstanceExtraInfo = {
  // Activity Calendar (@100)
  LogicalName = '0-0:13.0.0.255'
  ClassId = 20
  MethodExtraInfo = {
    // activate_passive_calendar
    MethodId = 1
    AccessRights = [ACTION]
  }
}

```

```

InstanceExtraInfo = {
  // Predefined Scripts - MDI reset / end of billing period (@135)

```



```
LogicalName = '0-0:10.0.1.255'
ClassId = 9
AttributeExtraInfo = {
    // scripts
    AttributeId = 2
    AccessRights = [GET]
}
}

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

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

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

InstanceExtraInfo = {
    // Predefined Scripts - Image activation (@316)
    LogicalName = '0-0:10.0.107.255'
    ClassId = 9
    AttributeExtraInfo = {
        // scripts
        AttributeId = 2
        AccessRights = [GET]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 1 (@1483)
    LogicalName = '0-1:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 2 (@1505)
```

```
LogicalName = '0-2:24.1.0.255'
ClassId = 72
MethodExtraInfo = {
    // synchronize_clock
    MethodId = 5
    AccessRights = [ACTION]
}
}

InstanceExtraInfo = {
    // M-Bus client channel 3 (@1527)
    LogicalName = '0-3:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 4 (@1549)
    LogicalName = '0-4:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
}

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

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

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

InstanceExtraInfo = {
    // M-Bus Value channel 1, instance 4 (@1595)
```

```
LogicalName = '0-1:24.2.4.255'
ClassId = 4
AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3
    AccessRights = [GET,SET]
}
}

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

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

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

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

InstanceExtraInfo = {
    // M-Bus Value channel 3, instance 1 (@1635)
    LogicalName = '0-3:24.2.1.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 3, instance 2 (@1643)
```

```
LogicalName = '0-3:24.2.2.255'
ClassId = 4
AttributeExtraInfo = {
    // scaler_unit
    AttributeId = 3
    AccessRights = [GET,SET]
}
}

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

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

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

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

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

InstanceExtraInfo = {
    // M-Bus Value channel 4, instance 4 (@1691)
```

```

LogicalName = '0-4:24.2.4.255'
ClassId = 4
AttributeExtraInfo = {
  // scaler_unit
  AttributeId = 3
  AccessRights = [GET,SET]
}
}

InstanceExtraInfo = {
  // S-FSK MAC counters (@1962)
  LogicalName = '0-0:26.3.0.255'
  ClassId = 53
  MethodExtraInfo = {
    // reset
    MethodId = 1
    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" />'

```



```

+'      </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>'
+'}
+'}
+'}

```

```

TestParameters = {
  MeterDiscoveryTimeout = 240000
  DefaultAccessTimeout = 240000
}

```

```
DefaultPriority = 5
ConnectDisconnectDelay = 4000
// DCSYSTEMTITLE = '4C475A4954000002' //KEMA PLC MODEM
DCSYSTEMTITLE = '4C475A1169000000' //FIT PLC MODEM

ImageTransfer = {
  ImageIdentifier = '\AM50001.01.01.00-00000'
  ImageFileName = '\FW_AM50001.01.01.00-00000_meter.bin'
  Timeout = 120000
}
}

TestOptions = {
}

PLCCConfig = {
  AddrMAC = 0xC00
  TimeoutNotAddr = 360
  MaxSubFrames = 7
  TimeUpdatePeriod = 0
  BkgTaskEnabled = 1
  BkgMinDelay = 60
  DiscoverTimeSlots = 20
  ResponseProbability = 100
  MaxCredit = 2
  DiscoverPeriod = 0
  TransmissionGain = 0
  ReceptionGain = 8
  BaudRate = 1
  InputFrequency = 0
  NbComOkDecrCredit = 3
  DecrCredit = 1
  IncrCredit = 2
  MaxRetry = 1
  RepeaterCallEnabled = 0
  RepeaterCallLevel = 1000
  NewBcplTSlotCount = 10
  AlarmMngtEnabled = 0
  AlarmMngtDelay = 0
  AutoDiscoveryPriority = 2
  FCTxValue = 0
}

StandardSecurityElements = {

  Public = {
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }

  Management = {
    MechanismName = LOW_LEVEL_SECURITY
    Policy = NO_SECURITY
    Password = '\12345678'
  }

  PreEstablished = {
    Policy = NO_SECURITY
  }
}

LocalSecurityElements = {

  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
}
}

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
    }
}

}

HDLCTransmissionProfile = {

    PhysicalLayer = {
        // EchoingPort = FALSE
        OpeningMode = DIRECT_HDLC
        HdlcBaud = 9600
    }

    DataLinkLayer = {
        InactivityTimeout = 120000
        InterFrameTimeout = 50
        ResponseTimeout = 2000
        ServerLowerMacAddress = 0x11
        DISCToNDMTimeout = 0
        AddressingSchemes = [ONE_BYTE_ADDRESSING, TWO_BYTES_ADDRESSING, FOUR_BYTES_ADDRESSING]
    }
}
}

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

TestMode:                Tunnel
Test Plan Signature:     2E7528F668226F15938A849EB132DD6A
Object Model:           IDIS - object model - V1.24 (20111025)-MBUS Ref 1.xlsx
DUT system title:       454C536452172639
DC MeterId:             ELS6452172639
Run number:             250
--

```

FB1C28A721017F6D3E97D61B8B9DE360

```

*****
IDIS Conformance test report
29-AUG-2012 14:21:34
iCTT Package 1, Edition 1.1, Revision 1 (207)
Licensed to: IDIS Assoc.
Tester: info@idis-association.com
*****

```

```

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

```

```

Manufacturer = {
  Name = '\Elster GmbH'
  ThreeLettersId = '\ELS'
}
DeviceUnderTest = {
  IDISDeviceType = 100
  IDISFunctionType = [EXTENSION_D, EXTENSION_M]
  SerialNr = 35061674
}

```

```

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

```

```

PASSED                194
FAILED                 0
DISABLED              40
INAPPLICABLE          8
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="04" />
    </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="62" />
    </Data>
(7) .frequencies PASSED
    <Data>
      <Structure Qty="0002" >
        <DoubleLongUnsigned Value="0000F744" />
        <DoubleLongUnsigned Value="00012110" />
      </Structure>
    </Data>
(8) .mac_address PASSED
    <Data>
      <LongUnsigned Value="0005" />
    </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="0000" />
    </Data>
(20) .synchronization_confirmation_timeout PASSED
    <Data>
      <LongUnsigned Value="0005" />
    </Data>
(21) .timeout_not_addressed PASSED
    <Data>
      <LongUnsigned Value="0168" />
    </Data>
(22) .timeout_frame_not_OK PASSED
    <Data>
      <LongUnsigned Value="001E" />
    </Data>

Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)
(23) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0300FF" />
    </Data>
(24) .synchronization_register PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000029" />
        </Structure>
      </Array>
    </Data>
(25) .desynchronization_listing PASSED
    <Data>
      <Structure Qty="0005" >
        <DoubleLongUnsigned Value="00000002" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000027" />
        <DoubleLongUnsigned Value="00000001" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Data>
(26) .broadcast_frames_counter PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="0000002E" />
        </Structure>
      </Array>
    </Data>
(27) .repetitions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="0000006A" />
    </Data>
(28) .transmissions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="00000057" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>

```

```

    <DoubleLongUnsigned Value="0000048C" />
  </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="\35061674" />
  </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="" />
  </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="" />
  </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="" />  
 </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="" />  
 </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="" />  
 </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="\ELS1000535061674" />  
 </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="\ELS1000535061674" />  
 </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="\V010822.00" />
    </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="A1FA" />
    </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="\V010201.03" />
    </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="AABE17BD" />
    </Data>

Mngmt Get Active firmware version 2 1-2:0.2.0.255 (@337)
(9) .logical_name                                     INAPPLICABLE
    Optional object is not implemented
(10) .value                                            INAPPLICABLE
    Optional object is not implemented

Mngmt Get Active firmware version signature 2 1-2:0.2.8.255 (@341)
(11) .logical_name                                    INAPPLICABLE
    Optional object is not implemented
(12) .value                                            INAPPLICABLE
    Optional object is not implemented

*****
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="07DC081DFF0E0000FF8000FF" />
    </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="07DC081D030E000800FFC480" />
</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
  <Data>
    <Array Qty="0000" >
    </Array>
  </Data>
```

PASSED

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

```
Mngmt Get Special Days Table 0-0:11.0.0.255 (@113)
(1) .entries
  <Data>
    <Array Qty="0000" >
    </Array>
  </Data>
```

PASSED

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

```
Mngmt Get Disconnecter Control Log 0-0:99.98.2.255 (@181)
(1) .buffer
  entries_in_use: 7
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </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 7 elements:
  <Data>
    <Array Qty="0007" >
      <Structure Qty="0003" >
        <OctetString Value="07DC06010500070400FFC480" />
        <Enum Value="3E" />
        <LongUnsigned Value="0050" />
      </Structure>
```

PASSED

```

<Structure Qty="0003" >
  <OctetString Value="07DC06010500070700FFC480" />
  <Enum Value="3F" />
  <LongUnsigned Value="0050" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DC06010500070800FFC480" />
  <Enum Value="3E" />
  <LongUnsigned Value="0050" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DC06010500070A00FFC480" />
  <Enum Value="3F" />
  <LongUnsigned Value="0050" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DC06010500070C00FFC480" />
  <Enum Value="3E" />
  <LongUnsigned Value="0050" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DC06010500070D00FFC480" />
  <Enum Value="3F" />
  <LongUnsigned Value="0050" />
</Structure>
<Structure Qty="0003" >
  <OctetString Value="07DC06010500070E00FFC480" />
  <Enum Value="3E" />
  <LongUnsigned Value="0050" />
</Structure>
</Array>
</Data>

```

Earliest date: 01-JUN-2012 00:07:04, latest date: 01-JUN-2012 00:07:14  
 Middle date: 01-JUN-2012 00:07:10

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

(2) .buffer

PASSED

entries\_in\_use: 100

```

<Data>
  <DoubleLongUnsigned Value="00000064" />
</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 100 elements:

```

<_Data>
  <Array Qty="0064" >
    <Structure Qty="0002" >
      <OctetString Value="07DC0705040F1C3800FFC480" />
      <Enum Value="02" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DC0705040F1F0300FFC480" />

```

```
<Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F202900FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F232A00FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F242C00FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F243500FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F310900FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F311400FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F311900FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F311E00FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F312400FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F313100FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F313100FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0705040F313100FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0706050C033100FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0706050C082D00FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0706050C082D00FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC0706050C082D00FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
```

```
<OctetString Value="07DC0709010F271D00FFC480" />
<Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC07090110022700FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC07090110022700FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC07090110022700FFC480" />
  <Enum Value="04" />
</Structure>
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  <OctetString Value="07DC07090110042900FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070901100B0600FFC480" />
  <Enum Value="01" />
</Structure>
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  <OctetString Value="07DC070901100B0600FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070901100B0600FFC480" />
  <Enum Value="04" />
</Structure>
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  <OctetString Value="07DC070A0209321900FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
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<Structure Qty="0002" >
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  <Enum Value="02" />
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  <OctetString Value="07DC070A020A092A00FFC480" />
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  <Enum Value="FE" />
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```

```
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  <Enum Value="FE" />
</Structure>
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  <Enum Value="FE" />
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  <OctetString Value="07DC070A020C260000FFC480" />
  <Enum Value="FE" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070A020D1D1200FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070A020D3B2D00FFC480" />
  <Enum Value="05" />
</Structure>
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  <OctetString Value="07DC070A020E003300FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070A020E3B2D00FFC480" />
  <Enum Value="05" />
</Structure>
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  <OctetString Value="07DC070A020F001F00FFC480" />
  <Enum Value="04" />
</Structure>
```

```
</Structure>
<Structure Qty="0002" >
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</Structure>
<Structure Qty="0002" >
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  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C0405040000FFC480" />
  <Enum Value="04" />
</Structure>
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  <OctetString Value="07DC080305142F0200FFC480" />
```

```
<Enum Value="05" />
</Structure>
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  <OctetString Value="07DC080305150F2100FFC480" />
  <Enum Value="11" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC080305170F3300FFC480" />
  <Enum Value="11" />
</Structure>
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  <OctetString Value="07DC08030517100400FFC480" />
  <Enum Value="12" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC08030517150B00FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC08030517150B00FFC480" />
  <Enum Value="02" />
</Structure>
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  <OctetString Value="07DC08030517201A00FFC480" />
  <Enum Value="01" />
</Structure>
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  <OctetString Value="07DC081C0217260A00FFC480" />
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</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081C0217260A00FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081C0217260A00FFC480" />
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<Structure Qty="0002" >
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  <Enum Value="01" />
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<Structure Qty="0002" >
  <OctetString Value="07DC081D03011D0100FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D0301301300FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
```

```
<OctetString Value="07DC081D0301301300FFC480" />
<Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D0301301300FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D0302072E00FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D03020C1F00FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D03020C1F00FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D03020C1F00FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0414340D00FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0415342800FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0415342800FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0415342800FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500152E00FFC480" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500170700FFC480" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500170700FFC480" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F05013B2000FFC480" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D030E000000FFC480" />
  <Enum Value="05" />
</Structure>
</Array>
</_Data>
```

Earliest date: 05-JUL-2012 15:28:56, latest date: 31-AUG-2012 01:59:32  
Middle date: 10-JUL-2012 14:59:45

Mngmt Get Fraud Detection Log 0-0:99.98.1.255 (@276)  
(3) .buffer  
entries\_in\_use: 19

PASSED



```

<Data>
  <DoubleLongUnsigned Value="00000013" />
</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 19 elements:
  <_Data>
    <Array Qty="0013" >
      <Structure Qty="0002" >
        <OctetString Value="07DA01010511090800FFC400" />
        <Enum Value="28" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC06010500033900FFC480" />
        <Enum Value="2E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC06010500040700FFC480" />
        <Enum Value="2E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC06010500041000FFC480" />
        <Enum Value="2E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC06010500041900FFC480" />
        <Enum Value="2E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC06010500042300FFC480" />
        <Enum Value="2E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA010105112F2800FFC400" />
        <Enum Value="29" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC0705040E132900FFC480" />
        <Enum Value="28" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC0705040E143200FFC480" />
        <Enum Value="29" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC0706050C033900FFC480" />
        <Enum Value="28" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC0709010F272400FFC480" />
        <Enum Value="29" />
      </Structure>
    </Array>
  </_Data>

```

```

<Structure Qty="0002" >
  <OctetString Value="07DC070A020A093200FFC480" />
  <Enum Value="28" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070A020A0B0000FFC480" />
  <Enum Value="29" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC070C04042F3300FFC480" />
  <Enum Value="28" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC08030515273400FFC480" />
  <Enum Value="29" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081C02162C2E00FFC480" />
  <Enum Value="28" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081C02162D3800FFC480" />
  <Enum Value="29" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0414341500FFC480" />
  <Enum Value="28" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500170300FFC480" />
  <Enum Value="29" />
</Structure>
</Array>
</_Data>

```

Earliest date: 01-JAN-2010 17:09:08, latest date: 31-AUG-2012 00:23:03  
 Middle date: 06-JUL-2012 12:03:57

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

(4) .buffer

PASSED

entries\_in\_use: 11

```

<Data>
  <DoubleLongUnsigned Value="0000000B" />
</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 11 elements:

```

<Data>
  <Array Qty="000B" >
    <Structure Qty="0002" >
      <OctetString Value="07DC06010500082600FFC480" />
      <Enum Value="FF" />
    </Structure>

```

```

<Structure Qty="0002" >
  <OctetString Value="07DC060105000C2E00FFC480" />
  <Enum Value="4C" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC060105000D2000FFC480" />
  <Enum Value="55" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC060105000D3000FFC480" />
  <Enum Value="4C" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC06010500101F00FFC480" />
  <Enum Value="55" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA011901111B1B00FFC400" />
  <Enum Value="52" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA011901111B1B00FFC400" />
  <Enum Value="53" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC061D050E241000FFC480" />
  <Enum Value="4C" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC061D050E241000FFC480" />
  <Enum Value="4D" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA011C0410291000FFC400" />
  <Enum Value="55" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC061D050E282200FFC480" />
  <Enum Value="55" />
</Structure>
</Array>
</Data>
Earliest date: 25-JAN-2010 17:27:27, latest date: 29-JUN-2012 14:40:34
Middle date: 25-JAN-2010 17:27:27

```

\*\*\*\*\*  
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: 9
  <Data>
    <DoubleLongUnsigned Value="00000009" />
  </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" />
      </Structure>
    </Array>
  </Data>

```

```

    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
</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 9 elements:
<_Data>
  <Array Qty="0009" >
    <Structure Qty="0005" >
      <OctetString Value="07DA0105020C3A2D00FFC400" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DC011F02173B2500FFC400" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DC02010300000000FFC400" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DC041E01173B2500FFC480" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DC05010200000000FFC480" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DC06010500000000FFC480" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Array>
</_Data>

```

```

</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DC061D050E241000FFC480" />
  <DoubleLongUnsigned Value="00006E28" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="000000A0" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DC0705040B2B3600FFC480" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0005" >
  <OctetString Value="07DC080305142F0200FFC480" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
</Array>
</_Data>
Earliest date: 05-JAN-2010 12:58:45, latest date: 03-AUG-2012 20:47:02
Middle date: 01-MAY-2012 00:00:00

```

```

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

```

```

Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1483)
(1) .mbus_port_reference PASSED
  <Data>
  <OctetString Value="0000180600FF" />
  </Data>
(2) .capture_definition PASSED
  <Data>
  <Array Qty="0004" >
    <Structure Qty="0002" >
      <OctetString Value="\L" />
      <OctetString Value="933A" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="\L" />
      <OctetString Value="13" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
      <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
      <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
    </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="00293809" />
  </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="D9" />
  </Data>
(10) .status PASSED
  <Data>
    <Unsigned Value="40" />
  </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="FFFFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
      </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="00293810" />
  </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="85" />
  </Data>
(21) .status PASSED
  <Data>
    <Unsigned Value="40" />
  </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="FFFFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFFFF" />
      </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="00293812" />
  </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="B2" />
  </Data>
(32) .status PASSED
  <Data>
    <Unsigned Value="40" />
  </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="FFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
        <OctetString Value="FFFFFFFFFFFFFFFFFFFFFF" />
      </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="00293811" />
  </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="BA" />
    </Data>
(43) .status PASSED
    <Data>
      <Unsigned Value="40" />
    </Data>
(44) .alarm PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>

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

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

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

Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1611)
```

```
(65) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="000004AE" />
    </Data>
(66) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0E" />
      </Structure>
    </Data>
(67) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>
Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1635)
(77) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="05F5DD28" />
    </Data>
(78) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0D" />
      </Structure>
    </Data>
(79) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>
Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1643)
(81) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="000001E7" />
    </Data>
(82) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0E" />
      </Structure>
    </Data>
(83) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>
Mngmt Get M-Bus Value channel 4, instance 1 0-4:24.2.1.255 (@1667)
(93) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="05F5DD26" />
    </Data>
(94) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0D" />
      </Structure>
    </Data>
(95) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>
```

```
Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1675)
(97) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="000003CC" />
    </Data>
(98) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0E" />
      </Structure>
    </Data>
(99) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 1 0-1:96.1.0.255 (@1699)
(109) .value PASSED
    <Data>
      <OctetString Value="00293809" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1703)
(110) .value PASSED
    <Data>
      <OctetString Value="00293810" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1707)
(111) .value PASSED
    <Data>
      <OctetString Value="00293812" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1711)
(112) .value PASSED
    <Data>
      <OctetString Value="00293811" />
    </Data>

Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1747)
(113) .buffer PASSED
    entries_in_use: 14
    <Data>
      <DoubleLongUnsigned Value="0000000E" />
    </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>
      </Array>
    </Data>
```

```

</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 14 elements:
<_Data>
  <Array Qty="000E" >
    <Structure Qty="0006" >
      <OctetString Value="07DC070C0405000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="00002366" />
      <DoubleLongUnsigned Value="00000227" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DC08030514000000FFC480" />
      <Unsigned Value="88" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DC08030515000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DC08030516000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DC08030517000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DC081C0216000000FFC480" />
      <Unsigned Value="88" />

```

```
<DoubleLongUnsigned Value="00000000" />
<DoubleLongUnsigned Value="00000000" />
<DoubleLongUnsigned Value="00000000" />
<DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081C0217000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0300000000FFC480" />
  <Unsigned Value="88" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0301000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0302000000FFC480" />
  <Unsigned Value="88" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081E0414000000FFC480" />
  <Unsigned Value="88" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081E0415000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="05F5DD56" />
  <DoubleLongUnsigned Value="00000227" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081F0500000000FFC480" />
  <Unsigned Value="88" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D030E000000FFC480" />
  <Unsigned Value="AC" />
  <DoubleLongUnsigned Value="05F5DD56" />
  <DoubleLongUnsigned Value="00000227" />
  <DoubleLongUnsigned Value="00000000" />
```

```

    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</_Data>
Earliest date: 12-JUL-2012 05:00:00, latest date: 31-AUG-2012 00:00:00
Middle date: 29-AUG-2012 00:00:00
(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="0000000E" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1758)
(117) .buffer PASSED
  entries_in_use: 22
  <Data>
    <DoubleLongUnsigned Value="00000016" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />

```

```

    <OctetString Value="0000010000FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
</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 22 elements:
<_Data>
  <Array Qty="0016" >
    <Structure Qty="0006" >
      <OctetString Value="07DC070A020D000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DC070A020E000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DC070A020F000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DC070A0210000000FFC480" />
      <Unsigned Value="08" />
      <DoubleLongUnsigned Value="00000000" />

```





```
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC08030517000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081C0216000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081C0217000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0300000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0301000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0302000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081E0414000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081E0415000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="05F5DD18" />
  <DoubleLongUnsigned Value="000004AE" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081F0500000000FFC480" />
```

```

    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</Data>
Earliest date: 10-JUL-2012 13:00:00, latest date: 31-AUG-2012 00:00:00
Middle date: 03-AUG-2012 22:00:00
(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>
      <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="00000016" />
  </Data>

```

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

PASSED

```

    entries_in_use: 22
      <Data>
        <DoubleLongUnsigned Value="00000016" />
      </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>
    Buffer has 22 elements:
    <_Data>
      <Array Qty="0016" >
        <Structure Qty="0006" >
          <OctetString Value="07DC070A020D000000FFC480" />
          <Unsigned Value="08" />
          <DoubleLongUnsigned Value="00000000" />
          <DoubleLongUnsigned Value="00000000" />
          <DoubleLongUnsigned Value="00000000" />
          <DoubleLongUnsigned Value="00000000" />
        </Structure>
        <Structure Qty="0006" >
          <OctetString Value="07DC070A020E000000FFC480" />
          <Unsigned Value="08" />
          <DoubleLongUnsigned Value="00000000" />
          <DoubleLongUnsigned Value="00000000" />
          <DoubleLongUnsigned Value="00000000" />
          <DoubleLongUnsigned Value="00000000" />
        </Structure>
      </Array>
    </_Data>
  </Data>

```

```
<Structure Qty="0006" >
  <OctetString Value="07DC070A020F000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC070A0210000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC070A0211000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC070C0400000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC070C0401000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00002338" />
  <DoubleLongUnsigned Value="000001E7" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC070C0404000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC070C0405000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC08030514000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC08030515000000FFC480" />
  <Unsigned Value="08" />
```



```

    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DC081E0415000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="05F5DD28" />
    <DoubleLongUnsigned Value="000001E7" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DC081F0500000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DC081D030E000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="05F5DD28" />
    <DoubleLongUnsigned Value="000001E7" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</_Data>

```

Earliest date: 10-JUL-2012 13:00:00, latest date: 31-AUG-2012 00:00:00

Middle date: 03-AUG-2012 22:00:00

(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" />
      </Structure>
    </Array>
  </Data>

```

```

        <LongUnsigned Value="0000" />
    </Structure>
</Array>
</Data>
(123) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(124) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000016" />
    </Data>

Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1780)
(125) .buffer PASSED
    entries_in_use: 22
    <Data>
        <DoubleLongUnsigned Value="00000016" />
    </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 22 elements:
    <_Data>
        <Array Qty="0016" >
            <Structure Qty="0006" >
                <OctetString Value="07DC070A020D000000FFC480" />
                <Unsigned Value="08" />
                <DoubleLongUnsigned Value="00000000" />
            </Structure>
        </Array>
    </Data>

```





```
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC08030514000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC08030515000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC08030516000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC08030517000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081C0216000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081C0217000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0300000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0301000000FFC480" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DC081D0302000000FFC480" />
```

```

    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DC081E0414000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DC081E0415000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="05F5DD26" />
    <DoubleLongUnsigned Value="000003CC" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DC081F0500000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07DC081D030E000000FFC480" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="05F5DD26" />
    <DoubleLongUnsigned Value="000003CC" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</_Data>

```

Earliest date: 10-JUL-2012 13:00:00, latest date: 31-AUG-2012 00:00:00

Middle date: 03-AUG-2012 22:00:00

(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>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180202FF" />
        <Integer Value="02" />
      </Structure>
    </Array>
  </Data>

```

```

    <LongUnsigned Value="0000" />
  </Structure>
</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="00000016" />
  </Data>

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1898)
(129) .buffer PASSED
  entries_in_use: 30
  <Data>
    <DoubleLongUnsigned Value="0000001E" />
  </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 30 elements:
  <_Data>
    <Array Qty="001E" >
      <Structure Qty="0002" >
        <OctetString Value="07DC08030517161300FFC480" />
        <Enum Value="6E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC081C02162D1900FFC480" />
        <Enum Value="6E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC081D0300030C00FFC480" />
        <Enum Value="6E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DC081D03011E1000FFC480" />
        <Enum Value="6E" />
      </Structure>
    </Array>
  </_Data>

```

```
<Structure Qty="0002" >
  <OctetString Value="07DC081D0302082000FFC480" />
  <Enum Value="6E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0414350100FFC480" />
  <Enum Value="6E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0414353400FFC480" />
  <Enum Value="6F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0414381E00FFC480" />
  <Enum Value="64" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0414381E00FFC480" />
  <Enum Value="6E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E0414381E00FFC480" />
  <Enum Value="78" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E04150B2700FFC480" />
  <Enum Value="65" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E04150B2700FFC480" />
  <Enum Value="6F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081E04150B2700FFC480" />
  <Enum Value="79" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500162200FFC480" />
  <Enum Value="6E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500170500FFC480" />
  <Enum Value="67" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500180D00FFC480" />
  <Enum Value="6E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500182C00FFC480" />
  <Enum Value="67" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500183000FFC480" />
  <Enum Value="71" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500183700FFC480" />
  <Enum Value="7B" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500190100FFC480" />
  <Enum Value="85" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0500190400FFC480" />
  <Enum Value="6F" />
</Structure>
```

```

</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F05001B2800FFC480" />
  <Enum Value="64" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F05001B2800FFC480" />
  <Enum Value="6E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F05001B2800FFC480" />
  <Enum Value="78" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0501192600FFC480" />
  <Enum Value="65" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0501192600FFC480" />
  <Enum Value="6F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081F0501192600FFC480" />
  <Enum Value="79" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D030E031000FFC480" />
  <Enum Value="64" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D030E031000FFC480" />
  <Enum Value="6E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DC081D030E031000FFC480" />
  <Enum Value="78" />
</Structure>
</Array>
</_Data>

```

Earliest date: 03-AUG-2012 23:22:19, latest date: 31-AUG-2012 01:25:38

Middle date: 31-AUG-2012 00:24:13

(130) .entries\_in\_use PASSED  
 <Data>  
 <DoubleLongUnsigned Value="0000001E" />  
 </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="04" />  
 </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="62" />  
 </Data>
- (7) .frequencies PASSED  
 <Data>  
 <Structure Qty="0002" >  
 <DoubleLongUnsigned Value="0000F744" />  
 <DoubleLongUnsigned Value="00012110" />  
 </Structure>  
 </Data>
- (8) .mac\_address PASSED  
 <Data>  
 <LongUnsigned Value="0005" />  
 </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="0000" />
    </Data>
(20) .synchronization_confirmation_timeout PASSED
    <Data>
      <LongUnsigned Value="0005" />
    </Data>
(21) .timeout_not_addressed PASSED
    <Data>
      <LongUnsigned Value="0168" />
    </Data>
(22) .timeout_frame_not_OK PASSED
    <Data>
      <LongUnsigned Value="001E" />
    </Data>

Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)
(23) .logical_name PASSED
    <Data>
      <OctetString Value="00001A0300FF" />
    </Data>
(24) .synchronization_register PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="00000029" />
        </Structure>
      </Array>
    </Data>
(25) .desynchronization_listing PASSED
    <Data>
      <Structure Qty="0005" >
        <DoubleLongUnsigned Value="00000002" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000027" />
        <DoubleLongUnsigned Value="00000001" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Data>
(26) .broadcast_frames_counter PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0C00" />
          <DoubleLongUnsigned Value="0000002E" />
        </Structure>
      </Array>
    </Data>
(27) .repetitions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="0000007A" />
    </Data>
(28) .transmissions_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="00000174" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="000009FD" />
    </Data>

```

```

    </Data>
(30) .CRC_NOK_frames_counter PASSED
    <Data>
      <DoubleLongUnsigned Value="0000000B" />
    </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 *
*****

// AS220 (single phase)
// CTI: ELS IDIS FIT#4
// Last update: 2012-08-29, IDR

Manufacturer = {
  Name = '\Elster GmbH'
  ThreeLettersId = '\ELS'
}

DeviceUnderTest = {
  IDISDeviceType = 100
  IDISFunctionType = [Extension_D, Extension_M]
  SerialNr = 35061674
}

ObjectModel = {

// Optional objects implemented
// Optional objects implemented
OptionalObjects = '\
+ '0-2:96.3.10.255|70,' // Load Mgmt - Relay control 2 (@205)
+ '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)
+ '1-0:5.8.1.255|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)

InstanceExtraInfo = {
  // Activity Calendar (@100)
  LogicalName = '0-0:13.0.0.255'
  ClassId = 20
  MethodExtraInfo = {
    // activate_passive_calendar
    MethodId = 1
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // Predefined Scripts - MDI reset / end of billing period (@135)
  LogicalName = '0-0:10.0.1.255'
  ClassId = 9
  AttributeExtraInfo = {
    // scripts
    AttributeId = 2
    AccessRights = [GET]
  }
}

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

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

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

InstanceExtraInfo = {
  // Predefined Scripts - Image activation (@316)
  LogicalName = '0-0:10.0.107.255'
```

```
ClassId = 9
  AttributeExtraInfo = {
    // scripts
    AttributeId = 2
    AccessRights = [GET]
  }
}

InstanceExtraInfo = {
  // M-Bus client channel 1 (@1483)
  LogicalName = '0-1:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // synchronize_clock
    MethodId = 5
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // M-Bus client channel 2 (@1505)
  LogicalName = '0-2:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // synchronize_clock
    MethodId = 5
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // M-Bus client channel 3 (@1527)
  LogicalName = '0-3:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // synchronize_clock
    MethodId = 5
    AccessRights = [ACTION]
  }
}

InstanceExtraInfo = {
  // M-Bus client channel 4 (@1549)
  LogicalName = '0-4:24.1.0.255'
  ClassId = 72
  MethodExtraInfo = {
    // synchronize_clock
    MethodId = 5
    AccessRights = [ACTION]
  }
}

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

InstanceExtraInfo = {
  // M-Bus Value channel 1, instance 2 (@1579)
  LogicalName = '0-1:24.2.2.255'
  ClassId = 4
```

```
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

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

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

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

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

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

InstanceExtraInfo = {
    // M-Bus Value channel 2, instance 4 (@1627)
    LogicalName = '0-2:24.2.4.255'
    ClassId = 4
    AttributeExtraInfo = {
```

```
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // M-Bus Value channel 3, instance 1 (@1635)
    LogicalName = '0-3:24.2.1.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

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

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

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

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

InstanceExtraInfo = {
    // M-Bus Value channel 4, instance 2 (@1675)
    LogicalName = '0-4:24.2.2.255'
    ClassId = 4
    AttributeExtraInfo = {
        // scaler_unit
```

```
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

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

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

InstanceExtraInfo = {
    // S-FSK MAC counters (@1962)
    LogicalName = '0-0:26.3.0.255'
    ClassId = 53
    MethodExtraInfo = {
        // reset
        MethodId = 1
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // Set clock to 29/08/2012 14:00:00
    LogicalName = '0-0:1.0.0.255'
    ClassId = 8
    AttributeExtraInfo = {
        AttributeId = 2
        SetData = '<Data><OctetString Value="07DC081DFF0E0000FF8000FF" /></Data>'
    }
}

}

TestParameters = {
    MeterDiscoveryTimeout = 240000
    DefaultAccessTimeout = 240000
    DefaultPriority = 5
    ConnectDisconnectDelay = 4000
    // DCSYSTEMTitle = '4C475A4954000002' //KEMA PLC MODEM
    DCSYSTEMTitle = '4C475A1169000000' //FIT PLC MODEM

    ImageTransfer = {
        ImageIdentifier = '\AM50001.01.01.00-00000'
        ImageFileName = '\FW_AM50001.01.01.00-00000_meter.bin'
        Timeout = 120000
    }
}

TestOptions = {
}
```

```
PLCCConfig = {
  AddrMAC = 0xC00
  TimeoutNotAddr = 360
  MaxSubFrames = 7
  TimeUpdatePeriod = 0
  BkgTaskEnabled = 1
  BkgMinDelay = 60
  DiscoverTimeSlots = 20
  ResponseProbability = 100
  MaxCredit = 2
  DiscoverPeriod = 0
  TransmissionGain = 0
  ReceptionGain = 8
  BaudRate = 1
  InputFrequency = 0
  NbComOkDecrCredit = 3
  DecrCredit = 1
  IncrCredit = 2
  MaxRetry = 1
  RepeaterCallEnabled = 0
  RepeaterCallLevel = 1000
  NewBcplTSlotCount = 10
  AlarmMngtEnabled = 0
  AlarmMngtDelay = 0
  AutoDiscoveryPriority = 2
  FCTxValue = 0
}

StandardSecurityElements = {

  Public = {
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }

  Management = {
    MechanismName = LOW_LEVEL_SECURITY
    Policy = NO_SECURITY
    Password = '\12345678'
  }

  PreEstablished = {
    Policy = NO_SECURITY
  }
}

LocalSecurityElements = {

  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
  }
}
```

```
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
  }
}

HDLCPProfile = {

  PhysicalLayer = {
    // EchoingPort = FALSE
    OpeningMode = DIRECT_HDLC
    HdlcBaud = 9600
  }

  DataLinkLayer = {
    InactivityTimeout = 120000
    InterFrameTimeout = 50
    ResponseTimeout = 2000
    ServerLowerMacAddress = 0x11
    DISCToNDMTimeout = 0
    AddressingSchemes = [ONE_BYTE_ADDRESSING, TWO_BYTES_ADDRESSING, FOUR_BYTES_ADDRESSING]
  }
}

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

TestMode:                Tunnel
Test Plan Signature:     2E7528F668226F15938A849EB132DD6A
Object Model:            IDIS - object model - V1.24 (20111025)-MBUS Ref 1.xlsx
DUT system title:       454C53645216FFAA
DC MeterId:             ELS645216FFAA
Run number:              101
--

BBD0110F534B4486C283F92D9370F49D
```