

Final Interoperability Test Report

FIT #: **11**
 Date: 01.04.2014
 Location: Paris, France
 Page 1 of 43

APPLICANT

Company: METER&CONTROL DOO
 Address: Trščanska 21, 11080 Zemun, Serbia

DEVICE		
Device type	ST401D	
<i>Type indication on metrology certificate</i>	<i>Directorate of Measures and Precious Metals of Republic Serbia, Certificate No.</i>	
ST40x	393-7/0-01-4344-2011	
<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	70	9D76DFE6380EF42EAD01411DD19124C2
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input checked="" type="checkbox"/>	0015	<input type="checkbox"/>
General information about the device		

FIRMWARE VERSIONS TESTED				Final Integration Test No. 11
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	V030326			Pass with remark

Elster GmbH

Iskraemeco d.d.

ltron

Landis+Gyr AG

FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	V030326			11	Pass with remark
2					
3					
4					

TEST REPORT - Firmware No. 1		
Test	Verdict	Remark
Meter discovery and registering	Passed	
M-Bus device discovery [Extension M]	Passed	
S-FSK related data	Passed	
All Device ID's	Passed	
SAP assignment	Passed	
COSEM logical device name	Passed	
FW version and signature	Passed	
Broadcast Date and time	Passed	
Broadcast Special Days Table	Passed	
Event logs	Passed	Power Quality Log ¹⁾ : The sequence of transients on the lines could not be fully reconstructed because in some cases the line voltage missing or line under voltage events are not recorded.
Billing period data	Passed	
Optical Port Connectivity	Passed	
Alarm Reporting	Passed	

FIT Conformance Test Report

```

*****
IDIS Conformance test report
01-APR-2014 13:41:14
iCTT Package 1, Edition 1.1, Revision 1 (209)
Licensed to: L+G Demo
Tester: info@idis-association.com
*****

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

Manufacturer = {
  Name = '\Meter and Control d.o.o.'
  ThreeLettersId = '\MAC'
}
DeviceUnderTest = {
  Type = '\ST401D-xxAxxxxx-xSxxxxx-xxxxxxxxxxxx'
  IDISDeviceType = 101
  IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M]
  SerialNr = 119919
}

Active firmware version (1-0:0.2.0.255) = \V030326

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

PASSED          216
FAILED          0
DISABLED        0
INAPPLICABLE   12
INCONCLUSIVE    0
FATAL           0
TOTAL          228

*****
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="03" />
    </Data>
(3) .delta_electrical_phase PASSED
    <Data>
    <Enum Value="01" />
    </Data>
(4) .max_receiving_gain PASSED
    <Data>
    <Unsigned Value="2A" />
    </Data>
(5) .max_transmitting_gain PASSED
    <Data>
    <Unsigned Value="00" />
    </Data>
(6) .search_initiator_gain PASSED
    <Data>
    <Unsigned Value="00" />
    </Data>
(7) .frequencies PASSED
    <Data>
    <Structure Qty="0002" >
    <DoubleLongUnsigned Value="0000F744" />
    <DoubleLongUnsigned Value="00012110" />
    </Structure>
    </Data>
(8) .mac_address PASSED
    <Data>
    <LongUnsigned Value="000C" />
    </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="0000" />
  </Data>
(20) .synchronization_confirmation_timeout PASSED
  <Data>
    <LongUnsigned Value="0003" />
  </Data>
(21) .timeout_not_addressed PASSED
  <Data>
    <LongUnsigned Value="0168" />
  </Data>
(22) .timeout_frame_not_OK PASSED
  <Data>
    <LongUnsigned Value="0028" />
  </Data>

Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)
(23) .logical_name PASSED
  <Data>
    <OctetString Value="00001A0300FF" />
  </Data>
(24) .synchronization_register PASSED
  <Data>
    <Array Qty="0003" >
      <Structure Qty="0002" >
        <LongUnsigned Value="0C00" />
        <DoubleLongUnsigned Value="00000057" />
      </Structure>
      <Structure Qty="0002" >
        <LongUnsigned Value="0000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0002" >
        <LongUnsigned Value="0000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Array>
  </Data>
(25) .desynchronization_listing PASSED
  <Data>
    <Structure Qty="0005" >
      <DoubleLongUnsigned Value="0000000F" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000049" />
      <DoubleLongUnsigned Value="00000003" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
  </Data>
(26) .broadcast_frames_counter PASSED
  <Data>
    <Array Qty="0003" >
      <Structure Qty="0002" >
        <LongUnsigned Value="0C00" />
        <DoubleLongUnsigned Value="000000A1" />
      </Structure>
      <Structure Qty="0002" >
        <LongUnsigned Value="0000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0002" >
        <LongUnsigned Value="0000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Array>
  </Data>
(27) .repetitions_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="00000000" />
  </Data>
(28) .transmissions_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="000002FA" />
  </Data>
(29) .CRC_OK_frames_counter PASSED
  <Data>
    <DoubleLongUnsigned Value="00000C70" />
  </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>

```

</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="\00119919" />		
</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="\M&C" />		
</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="\M&C" />		
</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="\M&C" />		
</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="\M&C" />		
</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
<pre> <Data> <OctetString Value="0000290000FF" /> </Data> </pre>	
(2) .SAP_assignment_list	PASSED
<pre> <Data> <Array Qty="0001" > <Structure Qty="0002" > <LongUnsigned Value="0001" /> <OctetString Value="\MAC1010700119919" /> </Structure> </Array> </Data> </pre>	
<pre> ***** Test Case 6 : Read COSEM logical device name, 2 item(s) ***** </pre>	
Mngmt Get COSEM logical device name 0-0:42.0.0.255 (@42)	
(1) .logical_name	PASSED
<pre> <Data> <OctetString Value="00002A0000FF" /> </Data> </pre>	
(2) .value	PASSED
<pre> <Data> <OctetString Value="\MAC1010700119919" /> </Data> </pre>	
<pre> ***** Test Case 7 : Read Active FW version, 12 item(s) ***** </pre>	
Mngmt Get Active firmware version 1-0:0.2.0.255 (@321)	
(1) .logical_name	PASSED
<pre> <Data> <OctetString Value="0100000200FF" /> </Data> </pre>	
(2) .value	PASSED
<pre> <Data> <OctetString Value="\V030326" /> </Data> </pre>	
Mngmt Get Active firmware version signature 1-0:0.2.8.255 (@325)	
(3) .logical_name	PASSED
<pre> <Data> <OctetString Value="0100000208FF" /> </Data> </pre>	
(4) .value	PASSED
<pre> <Data> <OctetString Value="\725C5DA9" /> </Data> </pre>	
Mngmt Get Active firmware version 1 1-1:0.2.0.255 (@329)	
(5) .logical_name	INAPPLICABLE
Optional object is not implemented	
(6) .value	INAPPLICABLE
Optional object is not implemented	
Mngmt Get Active firmware version signature 1 1-1:0.2.8.255 (@333)	
(7) .logical_name	INAPPLICABLE
Optional object is not implemented	
(8) .value	INAPPLICABLE
Optional object is not implemented	
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	
<pre> ***** Test Case 8 : Broadcast Clock <as set in CTI>, 1 item(s) ***** </pre>	
Pre Set Clock 0-0:1.0.0.255 (@75)	
(1) .time	PASSED
<pre> <Data> <OctetString Value="07DD0B05FF121D34FF8000FF" /> </Data> </pre>	
<pre> ***** Test Case 9 : Read Clock, 1 item(s) ***** </pre>	

```
Mngmt Get Clock 0-0:1.0.0.255 (@75)
(1) .time                                     PASSED
  <Data>
    <OctetString Value="07DD0B0502121D38FF800000" />
  </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 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>
    </Array>
  </Data>
```



```

    <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" >
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  <OctetString Value="FFFF020AFF" />
  <Unsigned Value="02" />
</Structure>
</Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
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</Structure Qty="0003" >
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  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
</Structure Qty="0003" >
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  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
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</Structure Qty="0003" >
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  <OctetString Value="FFFF0304FF" />
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  <Unsigned Value="02" />
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  <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
  <_Data>
    <Array Qty="001E" >
      <Structure Qty="0003" >
        <LongUnsigned Value="0001" />
        <OctetString Value="FFFF0101FF" />
        <Unsigned Value="02" />
      </Structure>

```

PASSED

```
<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>
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  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
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<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" />
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<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" />
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<Structure Qty="0003" >
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  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
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<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
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  <LongUnsigned Value="0001" />
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  <Unsigned Value="02" />
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<Structure Qty="0003" >
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  <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" />
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<Structure Qty="0003" >
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  <Unsigned Value="02" />
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<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0307FF" />
  <Unsigned Value="02" />
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<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0308FF" />
  <Unsigned Value="02" />
</Structure>
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  <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)

PASSED

```

(1) .buffer
  entries_in_use: 19
  <Data>
    <DoubleLongUnsigned Value="00000013" />
  </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 19 elements:
<_Data>
  <Array Qty="0013" >
    <Structure Qty="0003" >
      <OctetString Value="07DA011F07173B0100800000" />
      <Enum Value="FF" />
      <DoubleLongUnsigned Value="00004268" />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DA011F07173B3A00800000" />
      <Enum Value="43" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DA021C07173B3A00800000" />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DA031F03173B3A00800000" />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DA041E05173B3A00800080" />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DA051F01173B3A00800080" />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DA061E03173B3A00800080" />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214031100800000" />
      <Enum Value="3E" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214040A00800000" />
      <Enum Value="3F" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214042A00800000" />
      <Enum Value="3E" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214050C00800000" />
      <Enum Value="3F" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214052D00800000" />
      <Enum Value="3E" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214060E00800000" />
      <Enum Value="3F" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214062F00800000" />
      <Enum Value="3E" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214071000800000" />
      <Enum Value="3F" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214073000800000" />
      <Enum Value="3E" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07DD0B050214081200800000" />
      <Enum Value="3F" />
      <NullData />
    </Structure>
    <Structure Qty="0003" >

```

```

    <OctetString Value="07DD0B050214083600800000" />
    <Enum Value="3E" />
    <NullData />
  </Structure>
  <Structure Qty="0003" >
    <OctetString Value="07DD0B050214091700800000" />
    <Enum Value="3F" />
    <NullData />
  </Structure>
</Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:01, latest date: 05-NOV-2013 20:09:23
Middle date: 05-NOV-2013 20:04:42

Mngmt Get Standard Event Log 0-0:99.98.0.255 (@261)
(2) .buffer                                     PASSED
  entries_in_use: 101
  <Data>
    <DoubleLongUnsigned Value="00000065" />
  </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 101 elements:
  <_Data>
    <Array Qty="0065" >
      <Structure Qty="0002" >
        <OctetString Value="07DA011F07173B0000800000" />
        <Enum Value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA011F07173B3A00800000" />
        <Enum Value="0A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA02010100000200800000" />
        <Enum Value="04" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA021C07173B3A00800000" />
        <Enum Value="05" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA021C07173B3A00800000" />
        <Enum Value="2F" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA021C07173B3A00800000" />
        <Enum Value="0A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA03010100000200800000" />
        <Enum Value="04" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA031F03173B3A00800000" />
        <Enum Value="05" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA031F03173B3A00800000" />
        <Enum Value="2F" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA031F03173B3A00800000" />
        <Enum Value="0A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA04010400000200800080" />
        <Enum Value="04" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA041E05173B3A00800080" />
        <Enum Value="05" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA041E05173B3A00800080" />

```

```

<Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA041E05173B3A00800080" />
  <Enum Value="0A" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA05010600000200800080" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA051F01173B3A00800080" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA051F01173B3A00800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA051F01173B3A00800080" />
  <Enum Value="0A" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA06010200000200800080" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA061E03173B3A00800080" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA061E03173B3A00800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA061E03173B3A00800080" />
  <Enum Value="0A" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DA07010400001800800080" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C050F123B00800080" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C050F123B00800080" />
  <Enum Value="2F" />
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<Structure Qty="0002" >
  <OctetString Value="07DE031C050F160200800000" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C05131E0500800000" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C05131E1200800000" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C05131E1C00800000" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C05132C1400800000" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C0513340800800000" />
  <Enum Value="11" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C0513340B00800000" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C0513343400800000" />
  <Enum Value="02" />
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  <OctetString Value="07DE031C0513343400800000" />
  <Enum Value="12" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C0513343A00800000" />
  <Enum Value="01" />
</Structure>

```

```
<Structure Qty="0002" >
  <OctetString Value="07DE031C0514030800800000" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C0514031600800000" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C0514032C00800000" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE040102081E1400800000" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE040102081E1400800080" />
  <Enum Value="03" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE04010209221100800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE04010209230000800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE04010209293500800080" />
  <Enum Value="2F" />
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  <OctetString Value="07DE040102092B2400800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE040102092B3A00800080" />
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  <OctetString Value="07DE040102092D1F00800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE040102092D3200800080" />
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  <OctetString Value="07DE04010209321000800080" />
  <NullData />
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  <OctetString Value="07DE04010209321D00800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE04010209322800800080" />
  <NullData />
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<Structure Qty="0002" >
  <OctetString Value="07DE04010209333A00800080" />
  <NullData />
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<Structure Qty="0002" >
  <OctetString Value="07DE04010209343300800080" />
  <Enum Value="01" />
</Structure>
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  <OctetString Value="07DE04010209351400800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE04010209352400800080" />
  <Enum Value="2F" />
</Structure>
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  <OctetString Value="07DE04010209373800800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A0F0800800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A0F2D00800080" />
```

```
<Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A101800800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A120400800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A122400800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A130A00800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A132400800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A133A00800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A142500800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A150C00800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A152800800080" />
  <Enum Value="02" />
</Structure>
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  <OctetString Value="07DE0401020A160E00800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A172C00800080" />
  <Enum Value="02" />
</Structure>
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  <OctetString Value="07DE0401020A173700800080" />
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</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A180700800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1A0700800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1B0700800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1B0B00800080" />
  <Enum Value="01" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1B2100800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1B2E00800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1B3200800080" />
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</Structure>
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  <OctetString Value="07DE0401020A1C0300800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1C0F00800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1C1900800080" />
  <NullData />
</Structure>
```



```

<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1C2300800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1D2900800080" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A3B3A00800080" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A3B3A00800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020B011700800080" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1F0D00800080" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1F0D00800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020B312600800080" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D3400800080" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D3400800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214022E00800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214023600800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214030B00800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214042400800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214052700800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214062900800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214072B00800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214083100800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214200C00800000" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D3400800000" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B0502121D3400800000" />
  <Enum Value="2F" />
</Structure>
</Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:00, latest date: 01-APR-2014 11:49:38
Middle date: 01-APR-2014 09:50:40

```

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

```

(3) .buffer                                     PASSED
  entries_in_use: 23
  <Data>
    <DoubleLongUnsigned Value="00000017" />
  </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 23 elements:
  <_Data>
    <Array Qty="0017" >
      <Structure Qty="0002" >
        <OctetString Value="07DA011F07173B0100800000" />
        <Enum Value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA011F07173B3A00800000" />
        <Enum Value="2E" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA021C07173B3A00800000" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA031F03173B3A00800000" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA041E05173B3A00800080" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA051F01173B3A00800080" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA061E03173B3A00800080" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031C0513312400800000" />
        <Enum Value="2A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031C0513312500800000" />
        <Enum Value="2B" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE04010209260E00800080" />
        <Enum Value="2A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE04010209260F00800080" />
        <Enum Value="2B" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DD0B050213063700800000" />
        <Enum Value="2A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DD0B050213063800800000" />
        <Enum Value="2B" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DD0B050213190D00800000" />
        <Enum Value="2A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DD0B050213190E00800000" />
        <Enum Value="2B" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DD0B0502132B1F00800000" />
        <Enum Value="2A" />
      </Structure>
    </Array>
  </_Data>

```

```

    <OctetString Value="07DD0B0502132B2000800000" />
    <Enum Value="2B" />
  </Structure>
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050213342800800000" />
  <Enum Value="2A" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050213342900800000" />
  <Enum Value="2B" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214013100800000" />
  <Enum Value="2A" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214013200800000" />
  <Enum Value="2B" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214130700800000" />
  <Enum Value="2A" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DD0B050214130800800000" />
  <Enum Value="2B" />
</Structure>
</Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:01, latest date: 01-APR-2014 09:38:15
Middle date: 05-NOV-2013 19:06:55

```

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

(4) .buffer PASSED

```

  entries_in_use: 20
  <Data>
    <DoubleLongUnsigned Value="00000014" />
  </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 20 elements:
  <_Data>
    <Array Qty="0014" >
      <Structure Qty="0002" >
        <OctetString Value="07DA011F07173B0100800000" />
        <Enum Value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA011F07173B3A00800000" />
        <Enum Value="52" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA021C07173B3A00800000" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA031F03173B3A00800080" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA041E05173B3A00800080" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA051F01173B3A00800080" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DA061E03173B3A00800080" />
        <NullData />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07DE031C05131E0800800000" />
        <Enum Value="57" />
      </Structure>
    </Array>
  </_Data>

```

```

<Structure Qty="0002" >
  <OctetString Value="07DE031C05132C1700800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C0513343700800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE031C0514030B00800000" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE040102091E1500800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE04010209230300800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE04010209303500800080" />
  <Enum Value="4E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE04010209310500800080" />
  <Enum Value="57" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A0F0B00800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A122700800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A142800800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A172F00800080" />
  <NullData />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07DE0401020A1A0A00800080" />
  <NullData />
</Structure>
</Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:01, latest date: 01-APR-2014 10:26:10
Middle date: 28-MAR-2014 20:03:11

```

```

*****
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" />
        <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>
    </Array>
  </Data>

```

```

<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="07DA02010100000000800000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DA03010100000000800000" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DA04010400000000800080" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DA05010600000000800080" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DA06010200000000800080" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DA07010400000000800080" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DE031C050F120000800080" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DE040102091E0000800080" />
      <DoubleLongUnsigned Value="00000187" />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0005" >
      <OctetString Value="07DD0B0502121D0000800080" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
  </Array>
</_Data>
Earliest date: 01-FEB-2010 00:00:00, latest date: 01-APR-2014 09:30:00
Middle date: 01-JUN-2010 00:00:00

*****
Test Case 14 : M-Bus ITE Ref Test (Corrected & ValveStatus)-01, 116 item(s)
*****

Mngmt Get M-Bus master port setup 1 0-0:24.6.0.255 (@1475)
(1) .logical_name PASSED
  <Data>
  <OctetString Value="0000180600FF" />
  </Data>
(2) .comm_speed PASSED
  <Data>

```

```

    <Enum Value="03" />
  </Data>

Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1483)
(3) .logical_name PASSED
  <Data>
    <OctetString Value="0001180100FF" />
  </Data>
(4) .mbus_port_reference PASSED
  <Data>
    <OctetString Value="0000180600FF" />
  </Data>
(5) .capture_definition PASSED
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0002" >
        <OctetString Value="\L" />
        <OctetString Value="13" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="8940" />
        <OctetString Value="FD1A" />
      </Structure>
    </Array>
  </Data>
(6) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(7) .primary_address PASSED
  <Data>
    <Unsigned Value="01" />
  </Data>
(8) .identification_number PASSED
  <Data>
    <DoubleLongUnsigned Value="00158A85" />
  </Data>
(9) .manufacturer_id PASSED
  <Data>
    <LongUnsigned Value="2687" />
  </Data>
(10) .version PASSED
  <Data>
    <Unsigned Value="40" />
  </Data>
(11) .device_type PASSED
  <Data>
    <Unsigned Value="03" />
  </Data>
(12) .access_number PASSED
  <Data>
    <Unsigned Value="F6" />
  </Data>
(13) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(14) .alarm PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>

Mngmt Get M-Bus client channel 2 0-2:24.1.0.255 (@1505)
(15) .logical_name PASSED
  <Data>
    <OctetString Value="0002180100FF" />
  </Data>
(16) .mbus_port_reference PASSED
  <Data>
    <OctetString Value="0000180600FF" />
  </Data>
(17) .capture_definition PASSED
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0002" >
        <OctetString Value="\L" />
        <OctetString Value="13" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="8940" />
        <OctetString Value="FD1A" />
      </Structure>
    </Array>
  </Data>
(18) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(19) .primary_address PASSED
  <Data>

```

```

    <Unsigned Value="02" />
  </Data>
(20) .identification_number PASSED
  <Data>
    <DoubleLongUnsigned Value="00158A89" />
  </Data>
(21) .manufacturer_id PASSED
  <Data>
    <LongUnsigned Value="2687" />
  </Data>
(22) .version PASSED
  <Data>
    <Unsigned Value="40" />
  </Data>
(23) .device_type PASSED
  <Data>
    <Unsigned Value="03" />
  </Data>
(24) .access_number PASSED
  <Data>
    <Unsigned Value="FE" />
  </Data>
(25) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(26) .alarm PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>

Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1527)
(27) .logical_name PASSED
  <Data>
    <OctetString Value="0003180100FF" />
  </Data>
(28) .mbus_port_reference PASSED
  <Data>
    <OctetString Value="0000180600FF" />
  </Data>
(29) .capture_definition PASSED
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0002" >
        <OctetString Value="\L" />
        <OctetString Value="13" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="8940" />
        <OctetString Value="FD1A" />
      </Structure>
    </Array>
  </Data>
(30) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(31) .primary_address PASSED
  <Data>
    <Unsigned Value="03" />
  </Data>
(32) .identification_number PASSED
  <Data>
    <DoubleLongUnsigned Value="00158A86" />
  </Data>
(33) .manufacturer_id PASSED
  <Data>
    <LongUnsigned Value="2687" />
  </Data>
(34) .version PASSED
  <Data>
    <Unsigned Value="40" />
  </Data>
(35) .device_type PASSED
  <Data>
    <Unsigned Value="03" />
  </Data>
(36) .access_number PASSED
  <Data>
    <Unsigned Value="AB" />
  </Data>
(37) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(38) .alarm PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>

```

```

Mngmt Get M-Bus client channel 4 0-4:24.1.0.255 (@1549)
(39) .logical_name PASSED
    <Data>
    <OctetString Value="0004180100FF" />
    </Data>
(40) .mbus_port_reference PASSED
    <Data>
    <OctetString Value="0000180600FF" />
    </Data>
(41) .capture_definition PASSED
    <Data>
    <Array Qty="0002" >
    <Structure Qty="0002" >
    <OctetString Value="\L" />
    <OctetString Value="13" />
    </Structure>
    <Structure Qty="0002" >
    <OctetString Value="8940" />
    <OctetString Value="FD1A" />
    </Structure>
    </Array>
    </Data>
(42) .capture_period PASSED
    <Data>
    <DoubleLongUnsigned Value="00000E10" />
    </Data>
(43) .primary_address PASSED
    <Data>
    <Unsigned Value="04" />
    </Data>
(44) .identification_number PASSED
    <Data>
    <DoubleLongUnsigned Value="00158A8B" />
    </Data>
(45) .manufacturer_id PASSED
    <Data>
    <LongUnsigned Value="2687" />
    </Data>
(46) .version PASSED
    <Data>
    <Unsigned Value="40" />
    </Data>
(47) .device_type PASSED
    <Data>
    <Unsigned Value="03" />
    </Data>
(48) .access_number PASSED
    <Data>
    <Unsigned Value="65" />
    </Data>
(49) .status PASSED
    <Data>
    <Unsigned Value="00" />
    </Data>
(50) .alarm PASSED
    <Data>
    <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus Value channel 1, instance 1 0-1:24.2.1.255 (@1571)
(51) .logical_name PASSED
    <Data>
    <OctetString Value="0001180201FF" />
    </Data>
(52) .value PASSED
    <Data>
    <DoubleLongUnsigned Value="0000000B" />
    </Data>
(53) .scaler_unit PASSED
    <Data>
    <Structure Qty="0002" >
    <Integer Value="FD" />
    <Enum Value="0E" />
    </Structure>
    </Data>

Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1579)
(54) .logical_name PASSED
    <Data>
    <OctetString Value="0001180202FF" />
    </Data>
(55) .value PASSED
    <Data>
    <DoubleLongUnsigned Value="00000001" />
    </Data>
(56) .scaler_unit PASSED
    <Data>
    <Structure Qty="0002" >
    <Integer Value="00" />
    <Enum Value="FF" />
    </Structure>
    </Data>

```



```

    </Structure>
  </Data>

Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1603)
(57) .logical_name PASSED
    <Data>
      <OctetString Value="0002180201FF" />
    </Data>
(58) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="0000001D" />
    </Data>
(59) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0E" />
      </Structure>
    </Data>

Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1611)
(60) .logical_name PASSED
    <Data>
      <OctetString Value="0002180202FF" />
    </Data>
(61) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="00000001" />
    </Data>
(62) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="00" />
        <Enum Value="FF" />
      </Structure>
    </Data>

Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1635)
(63) .logical_name PASSED
    <Data>
      <OctetString Value="0003180201FF" />
    </Data>
(64) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="0000003F" />
    </Data>
(65) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0E" />
      </Structure>
    </Data>

Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1643)
(66) .logical_name PASSED
    <Data>
      <OctetString Value="0003180202FF" />
    </Data>
(67) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="00000001" />
    </Data>
(68) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="00" />
        <Enum Value="FF" />
      </Structure>
    </Data>

Mngmt Get M-Bus Value channel 4, instance 1 0-4:24.2.1.255 (@1667)
(69) .logical_name PASSED
    <Data>
      <OctetString Value="0004180201FF" />
    </Data>
(70) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="0000007F" />
    </Data>
(71) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0E" />
      </Structure>
    </Data>

Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1675)
(72) .logical_name PASSED

```

```

    <Data>
      <OctetString Value="0004180202FF" />
    </Data>
(73) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="00000001" />
    </Data>
(74) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="00" />
        <Enum Value="FF" />
      </Structure>
    </Data>
Mngmt Get M-Bus Device ID 1 channel 1 0-1:96.1.0.255 (@1699)
(75) .logical_name PASSED
    <Data>
      <OctetString Value="0001600100FF" />
    </Data>
(76) .value PASSED
    <Data>
      <OctetString Value="\G0001340141171714" />
    </Data>
Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1703)
(77) .logical_name PASSED
    <Data>
      <OctetString Value="0002600100FF" />
    </Data>
(78) .value PASSED
    <Data>
      <OctetString Value="\G0001340141172114" />
    </Data>
Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1707)
(79) .logical_name PASSED
    <Data>
      <OctetString Value="0003600100FF" />
    </Data>
(80) .value PASSED
    <Data>
      <OctetString Value="\G0001340141171814" />
    </Data>
Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1711)
(81) .logical_name PASSED
    <Data>
      <OctetString Value="0004600100FF" />
    </Data>
(82) .value PASSED
    <Data>
      <OctetString Value="\G0001340141172314" />
    </Data>
Mngmt Get M-Bus Device ID 2 channel 1 0-1:96.1.1.255 (@1715)
(83) .logical_name PASSED
    <Data>
      <OctetString Value="0001600101FF" />
    </Data>
(84) .value PASSED
    <Data>
      <OctetString Value="\12345678" />
    </Data>
Mngmt Get M-Bus Device ID 2 channel 2 0-2:96.1.1.255 (@1719)
(85) .logical_name PASSED
    <Data>
      <OctetString Value="0002600101FF" />
    </Data>
(86) .value PASSED
    <Data>
      <OctetString Value="\12345678" />
    </Data>
Mngmt Get M-Bus Device ID 2 channel 3 0-3:96.1.1.255 (@1723)
(87) .logical_name PASSED
    <Data>
      <OctetString Value="0003600101FF" />
    </Data>
(88) .value PASSED
    <Data>
      <OctetString Value="\12345678" />
    </Data>
Mngmt Get M-Bus Device ID 2 channel 4 0-4:96.1.1.255 (@1727)
(89) .logical_name PASSED
    <Data>
      <OctetString Value="0004600101FF" />
    </Data>

```

```

(90) .value                                     PASSED
  <Data>
    <OctetString Value="\12345678" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1747)

(91) .logical_name                             PASSED
  <Data>
    <OctetString Value="0001180300FF" />
  </Data>

(92) .buffer                                   PASSED
  entries_in_use: 8
  <Data>
    <DoubleLongUnsigned Value="00000008" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0001600A03FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0001180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0001180202FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0001180203FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0001180204FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
  Buffer has 8 elements:
  <_Data>
    <Array Qty="0008" >
      <Structure Qty="0006" >
        <OctetString Value="07DA011F07173B0000800000" />
        <Unsigned Value="00" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA021C07173B0000800000" />
        <Unsigned Value="24" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA031F03173B0000800000" />
        <Unsigned Value="24" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA041E05173B0000800080" />
        <Unsigned Value="2C" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
    </Array>
  </_Data>

```

```

</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DA051F01173B0000800080" />
  <Unsigned Value="2C" />
  <NullData />
  <NullData />
  <NullData />
  <NullData />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DA061E03173B0000800080" />
  <Unsigned Value="2C" />
  <NullData />
  <NullData />
  <NullData />
  <NullData />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B0502130000080000" />
  <Unsigned Value="2C" />
  <DoubleLongUnsigned Value="0000000B" />
  <DoubleLongUnsigned Value="00000001" />
  <NullData />
  <NullData />
</Structure>
<Structure Qty="0006" >
  <NullData />
  <Unsigned Value="00" />
  <NullData />
  <NullData />
  <NullData />
  <NullData />
</Structure>
</Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:00, latest date: 05-NOV-2013 19:00:00
Middle date: 31-MAY-2010 23:59:00
(93) .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>
(94) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(95) .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)
(96) .logical_name PASSED
  <Data>

```

```

    <OctetString Value="0002180300FF" />
  </Data>
(97) .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="07DA011F07173B0000800000" />
        <Unsigned Value="00" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA021C07173B0000800000" />
        <Unsigned Value="24" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA031F03173B0000800000" />
        <Unsigned Value="24" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA041E05173B0000800080" />
        <Unsigned Value="2C" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA051F01173B0000800080" />
        <Unsigned Value="2C" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
    </Array>
  </Data>

```

```

</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DA061E03173B0000800080" />
  <Unsigned Value="2C" />
  <NullData />
  <NullData />
  <NullData />
  <NullData />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B05021300000800000" />
  <Unsigned Value="2C" />
  <DoubleLongUnsigned Value="0000001D" />
  <DoubleLongUnsigned Value="00000001" />
  <NullData />
  <NullData />
</Structure>
<Structure Qty="0006" >
  <NullData />
  <Unsigned Value="00" />
  <NullData />
  <NullData />
  <NullData />
  <NullData />
</Structure>
</Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:00, latest date: 05-NOV-2013 19:00:00
Middle date: 31-MAY-2010 23:59:00
(98) .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>
(99) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(100) .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)
(101) .logical_name PASSED
  <Data>
    <OctetString Value="0003180300FF" />
  </Data>
(102) .buffer PASSED
  entries_in_use: 8
  <Data>
    <DoubleLongUnsigned Value="00000008" />
  </Data>
capture_objects:

```

```

<Data>
  <Array Qty="0006" >
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0001" />
      <OctetString Value="0003600A03FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180201FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180202FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180203FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180204FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Array>
</Data>
Buffer has 8 elements:
  <_Data>
    <Array Qty="0008" >
      <Structure Qty="0006" >
        <OctetString Value="07DA011F07173B0000800000" />
        <Unsigned Value="00" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA021C07173B0000800000" />
        <Unsigned Value="24" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA031F03173B0000800000" />
        <Unsigned Value="24" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA041E05173B0000800080" />
        <Unsigned Value="2C" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA051F01173B0000800080" />
        <Unsigned Value="2C" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07DA061E03173B0000800080" />
        <Unsigned Value="2C" />
        <NullData />
        <NullData />
        <NullData />
        <NullData />
      </Structure>
    </Array>
  </_Data>

```

```

</Structure>
<Structure Qty="0006" >
  <OctetString Value="07DD0B050213000000800000" />
  <Unsigned Value="2C" />
  <DoubleLongUnsigned Value="0000003F" />
  <DoubleLongUnsigned Value="00000001" />
  <NullData />
  <NullData />
</Structure>
<Structure Qty="0006" >
  <NullData />
  <Unsigned Value="00" />
  <NullData />
  <NullData />
  <NullData />
  <NullData />
</Structure>
</Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:00, latest date: 05-NOV-2013 19:00:00
Middle date: 31-MAY-2010 23:59:00
(103) .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>
(104) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(105) .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)
(106) .logical_name PASSED
  <Data>
    <OctetString Value="0004180300FF" />
  </Data>
(107) .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="07DA011F07173B0000800000" />
      <Unsigned Value="00" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
      <DoubleLongUnsigned Value="00000000" />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DA021C07173B0000800000" />
      <Unsigned Value="24" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DA031F03173B0000800000" />
      <Unsigned Value="24" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DA041E05173B0000800080" />
      <Unsigned Value="2C" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DA051F01173B0000800080" />
      <Unsigned Value="2C" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DA061E03173B0000800080" />
      <Unsigned Value="2C" />
      <NullData />
      <NullData />
      <NullData />
      <NullData />
    </Structure>
    <Structure Qty="0006" >
      <OctetString Value="07DD0B050213000000800000" />
      <Unsigned Value="2C" />
      <DoubleLongUnsigned Value="0000007F" />
      <DoubleLongUnsigned Value="00000001" />
      <NullData />
      <NullData />
    </Structure>
  </Array>

```

```

</Structure>
<Structure Qty="0006" >
  <NullData />
  <Unsigned Value="00" />
  <NullData />
  <NullData />
  <NullData />
  <NullData />
</Structure>
</Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:00, latest date: 05-NOV-2013 19:00:00
Middle date: 31-MAY-2010 23:59:00
(108) .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>
(109) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(110) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000008" />
  </Data>

Mngmt Get M-Bus Disconnecter script table 0-1:10.0.106.255 (@1829)
(111) .scripts PASSED
  <Data>
    <Array Qty="0008" >
      <Structure Qty="0002" >
        <LongUnsigned Value="0001" />
        <Array Qty="0001" >
          <Structure Qty="0005" >
            <Enum Value="02" />
            <LongUnsigned Value="0046" />
            <OctetString Value="0001180400FF" />
            <Integer Value="01" />
            <Integer Value="00" />
          </Structure>
        </Array>
      </Structure>
      <Structure Qty="0002" >
        <LongUnsigned Value="0002" />
        <Array Qty="0001" >
          <Structure Qty="0005" >
            <Enum Value="02" />
            <LongUnsigned Value="0046" />
            <OctetString Value="0001180400FF" />
            <Integer Value="02" />
            <Integer Value="00" />
          </Structure>
        </Array>
      </Structure>
    </Array>
  </Data>

```

```

</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0003" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
      <Enum Value="02" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0002180400FF" />
      <Integer Value="01" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0004" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
      <Enum Value="02" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0002180400FF" />
      <Integer Value="02" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0005" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
      <Enum Value="02" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0003180400FF" />
      <Integer Value="01" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0006" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
      <Enum Value="02" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0003180400FF" />
      <Integer Value="02" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0007" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
      <Enum Value="02" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0004180400FF" />
      <Integer Value="01" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0008" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
      <Enum Value="02" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0004180400FF" />
      <Integer Value="02" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
</Array>
</Data>

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1898)
(112) .logical_name PASSED
  <Data>
    <OctetString Value="0000636203FF" />
  </Data>
(113) .buffer PASSED
  entries_in_use: 7
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0004" >

```

```

        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
</Array>
</Data>
Buffer has 7 elements:
<_Data>
  <Array Qty="0007" >
    <Structure Qty="0002" >
      <OctetString Value="07DA011F07173B0100800000" />
      <Enum Value="FF" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DA011F07173B3A00800000" />
      <Enum Value="68" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DA021C07173B3A00800000" />
      <NullData />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DA031F03173B3A00800000" />
      <NullData />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DA041E05173B3A00800080" />
      <NullData />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DA051F01173B3A00800080" />
      <NullData />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07DA061E03173B3A00800080" />
      <NullData />
    </Structure>
  </Array>
</_Data>
Earliest date: 31-JAN-2010 23:59:01, latest date: 30-JUN-2010 23:59:58
Middle date: 31-MAR-2010 23:59:58
(114) .capture_objects PASSED
  <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>
(115) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000000" />
  </Data>
(116) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000007" />
  </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="03" />
  </Data>
(3) .delta_electrical_phase PASSED
  <Data>
    <Enum Value="01" />
  </Data>

```

	</Data>	
(4)	.max_receiving_gain <Data> <Unsigned Value="2A" /> </Data>	PASSED
(5)	.max_transmitting_gain <Data> <Unsigned Value="00" /> </Data>	PASSED
(6)	.search_initiator_gain <Data> <Unsigned Value="00" /> </Data>	PASSED
(7)	.frequencies <Data> <Structure Qty="0002" > <DoubleLongUnsigned Value="0000F744" /> <DoubleLongUnsigned Value="00012110" /> </Structure> </Data>	PASSED
(8)	.mac_address <Data> <LongUnsigned Value="000C" /> </Data>	PASSED
(9)	.mac_group_addresses <Data> <Array Qty="0005" > <LongUnsigned Value="0000" /> <LongUnsigned Value="0000" /> <LongUnsigned Value="0000" /> <LongUnsigned Value="0000" /> <LongUnsigned Value="0000" /> </Array> </Data>	PASSED
(10)	.repeater <Data> <Enum Value="02" /> </Data>	PASSED
(11)	.repeater_status <Data> <Bool Value="00" /> </Data>	PASSED
(12)	.min_delta_credit <Data> <Unsigned Value="00" /> </Data>	PASSED
(13)	.initiator_mac_address <Data> <LongUnsigned Value="0C00" /> </Data>	PASSED
(14)	.synchronization_locked <Data> <Bool Value="01" /> </Data>	PASSED
(15)	.transmission_speed <Data> <Enum Value="03" /> </Data>	PASSED
Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950)		
(16)	.logical_name <Data> <OctetString Value="00001A0100FF" /> </Data>	PASSED
(17)	.active_initiator <Data> <Structure Qty="0003" > <OctetString Value="4C475A1169000000" /> <LongUnsigned Value="0C00" /> <Unsigned Value="01" /> </Structure> </Data>	PASSED
Mngmt Get S-FSK MAC synchronisation timeouts 0-0:26.2.0.255 (@1955)		
(18)	.logical_name <Data> <OctetString Value="00001A0200FF" /> </Data>	PASSED
(19)	.search_initiator_timeout <Data> <LongUnsigned Value="0000" /> </Data>	PASSED
(20)	.synchronization_confirmation_timeout <Data> <LongUnsigned Value="0003" /> </Data>	PASSED
(21)	.timeout_not_addressed <Data> <LongUnsigned Value="0168" /> </Data>	PASSED

(22)	.timeout_frame_not_OK	PASSED
	<Data>	
	<LongUnsigned Value="0028" />	
	</Data>	
	Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)	
(23)	.logical_name	PASSED
	<Data>	
	<OctetString Value="00001A0300FF" />	
	</Data>	
(24)	.synchronization_register	PASSED
	<Data>	
	<Array Qty="0003" >	
	<Structure Qty="0002" >	
	<LongUnsigned Value="0C00" />	
	<DoubleLongUnsigned Value="00000057" />	
	</Structure>	
	<Structure Qty="0002" >	
	<LongUnsigned Value="0000" />	
	<DoubleLongUnsigned Value="00000000" />	
	</Structure>	
	<Structure Qty="0002" >	
	<LongUnsigned Value="0000" />	
	<DoubleLongUnsigned Value="00000000" />	
	</Structure>	
	</Array>	
	</Data>	
(25)	.desynchronization_listing	PASSED
	<Data>	
	<Structure Qty="0005" >	
	<DoubleLongUnsigned Value="0000000F" />	
	<DoubleLongUnsigned Value="00000000" />	
	<DoubleLongUnsigned Value="00000049" />	
	<DoubleLongUnsigned Value="00000003" />	
	<DoubleLongUnsigned Value="00000000" />	
	</Structure>	
	</Data>	
(26)	.broadcast_frames_counter	PASSED
	<Data>	
	<Array Qty="0003" >	
	<Structure Qty="0002" >	
	<LongUnsigned Value="0C00" />	
	<DoubleLongUnsigned Value="000000A1" />	
	</Structure>	
	<Structure Qty="0002" >	
	<LongUnsigned Value="0000" />	
	<DoubleLongUnsigned Value="00000000" />	
	</Structure>	
	<Structure Qty="0002" >	
	<LongUnsigned Value="0000" />	
	<DoubleLongUnsigned Value="00000000" />	
	</Structure>	
	</Array>	
	</Data>	
(27)	.repetitions_counter	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000000" />	
	</Data>	
(28)	.transmissions_counter	PASSED
	<Data>	
	<DoubleLongUnsigned Value="0000045C" />	
	</Data>	
(29)	.CRC_OK_frames_counter	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00001280" />	
	</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 *
*****

/*****
/* CTI Meter & Control ST401D-xxA */
/*****

Manufacturer = {
  Name = '\Meter and Control d.o.o.'
  ThreeLettersId = '\MAC'
}

DeviceUnderTest = {
  Type = '\ST401D-xxAxxxxx-xSxxxxx-xxxxxxxxxxxxx'
  IDISDeviceType = 101
  IDISFunctionType = [Extension_D, Extension_L, Extension_M]
  SerialNr = 00119919
}

ObjectModel = {
  // Optional objects implemented
  OptionalObjects = '\
+ '0-2:96.3.10.255|70,' // Load Mgmt - Relay control 2 (@205)
+ '1-0:5.8.1.255|3,' // Reactive energy (QI) rate 1 (@515)
+ '1-0:5.8.2.255|3,' // Reactive energy (QI) rate 2 (@521)
+ '1-0:5.8.3.255|3,' // Reactive energy (QI) rate 3 (@527)
+ '1-0:5.8.4.255|3,' // Reactive energy (QI) rate 4 (@533)
+ '1-0:6.8.1.255|3,' // Reactive energy (QII) rate 1 (@539)
+ '1-0:6.8.2.255|3,' // Reactive energy (QII) rate 2 (@545)
+ '1-0:6.8.3.255|3,' // Reactive energy (QII) rate 3 (@551)
+ '1-0:6.8.4.255|3,' // Reactive energy (QII) rate 4 (@557)
+ '1-0:7.8.1.255|3,' // Reactive energy (QIII) rate 1 (@563)
+ '1-0:7.8.2.255|3,' // Reactive energy (QIII) rate 2 (@569)
+ '1-0:7.8.3.255|3,' // Reactive energy (QIII) rate 3 (@575)
+ '1-0:7.8.4.255|3,' // Reactive energy (QIII) rate 4 (@581)
+ '1-0:8.8.1.255|3,' // Reactive energy (QIV) rate 1 (@587)
+ '1-0:8.8.2.255|3,' // Reactive energy (QIV) rate 2 (@593)
+ '1-0:8.8.3.255|3,' // Reactive energy (QIV) rate 3 (@599)
+ '1-0:8.8.4.255|3,' // Reactive energy (QIV) rate 4 (@605)
+ '1-0:15.8.1.255|3,' // Active energy Combined total (|+A|+|-A|) rate 1 (@659)
+ '1-0:15.8.2.255|3,' // Active energy Combined total (|+A|+|-A|) rate 2 (@665)
+ '1-0:15.8.3.255|3,' // Active energy Combined total (|+A|+|-A|) rate 3 (@671)
+ '1-0:15.8.4.255|3,' // Active energy Combined total (|+A|+|-A|) rate 4 (@677)
+ '1-0:9.4.0.255|5,' // Demand Register 5 - Apparent energy import (+VA) (@736)
+ '1-0:10.4.0.255|5,' // Demand Register 6 - Apparent energy export (-VA) (@749)
+ '1-0:9.6.0.255|4,' // Maximum Demand Register 21 - Apparent energy import (+VA) (@970)
+ '1-0:9.6.1.255|4,' // Maximum Demand Register 22 - Apparent energy import (+VA) - rate 1 (@978)
+ '1-0:9.6.2.255|4,' // Maximum Demand Register 23 - Apparent energy import (+VA) - rate 2 (@986)
+ '1-0:9.6.3.255|4,' // Maximum Demand Register 24 - Apparent energy import (+VA) - rate 3 (@994)
+ '1-0:9.6.4.255|4,' // Maximum Demand Register 25 - Apparent energy import (+VA) - rate 4 (@1002)
+ '1-0:10.6.0.255|4,' // Maximum Demand Register 26 - Apparent energy export (-VA) (@1010)
+ '1-0:10.6.1.255|4,' // Maximum Demand Register 27 - Apparent energy export (-VA) - rate 1 (@1018)
+ '1-0:10.6.2.255|4,' // Maximum Demand Register 28 - Apparent energy export (-VA) - rate 2 (@1026)
+ '1-0:10.6.3.255|4,' // Maximum Demand Register 29 - Apparent energy export (-VA) - rate 3 (@1034)
+ '1-0:10.6.4.255|4,' // Maximum Demand Register 30 - Apparent energy export (-VA) - rate 4 (@1042)
+ '1-0:14.7.0.255|3,' // Instantaneous net frequency; any phase (@1359)
+ '1-0:9.7.0.255|3,' // Instantaneous apparent import power (+VA) (@1395)
+ '1-0:10.7.0.255|3,' // Instantaneous apparent export power (-VA) (@1401)
+ '1-0:13.7.0.255|3,' // Instantaneous Power factor (+A/+VA) (@1446)
+ '0-1:24.6.0.255|74' // M-Bus master port setup 2 (@1479)

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

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

```

```

        AccessRights = [ACTION]
    }
}

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

InstanceExtraInfo = {
// Set 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="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 = 10000
  DCSystemTitle = '4C475A1169000000' //FIT DC System Title

  ImageTransfer = {
    ImageIdentifier = '\MAC-ST401'
    ImageFileName = '\MACImagetest.image'
    Timeout = 90000
  }
}

TestOptions = {
}

ELCCConfig = {
  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 = 55000
    InterFrameTimeout = 100
    ResponseTimeout = 2000
    ServerLowerMacAddress = 0x11
    DISCToNDMTimeout = 500
    AddressingSchemes = [TWO_BYTES_ADDRESSING]
  }
}

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

TestMode:           Tunnel
Test Plan Signature: 277A26160D8A7E8007C9446B5C48CB67
Object Model:       IDIS-S01-005 V1.24 120510 IDIS - object model - V1.24 (20120510)-MBUS Tests Itron (CorrectedAndValve
status)-01.xlsx
DUT system title:   4D4143657001D46F
DC MeterId:         MAC657001D46F
Run number:         217
--

4967793AAD6E6126AD299442CEA15C62

```