

Final Interoperability Test Report

FIT #: **44**
 Date: 17/6/2020
 Location: DNV-GL, Arnhem, Netherlands
 Page 1 of 45

APPLICANT

Company: *METER&CONTROL d.o.o*

Address: Veljka Dugoševića 54, 11050 Belgrade, Serbia

DEVICE		
Device type	ST401D	
<i>Type indication on MID certificate</i>		<i>MID Certificate No.</i>
ST401D		T10629
<i>IDIS Specification reference</i>	<i>DNV-gl IDIS Certification run No</i>	<i>Digital signature of the test report.</i>
Package 1 ed. 1.1	399	31C7F4F1C5A6BC9F64702DA9F7CF857A
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input type="checkbox"/>	0015	<input type="checkbox"/>
<i>General information about the device</i>		

FIRMWARE VERSIONS TESTED				<i>Final Interoperability Test No. 44</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	\V030540			Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #44

Device: METER&CONTROL ST401D

DNV-GL, Arnhem, Netherlands, 17.06.2020

Page 2 of 45

FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	\v030540			44	Passed

TEST REPORT - Firmware No. 1		
Test	Verdict	Remark
Connect and release	Passed	
All Device IDs	Passed	
COSEM logical device name	Passed	
SAP assignment	Passed	
FW version and signature	Passed	
All Device ID's	Passed	
Broadcast Date and time	Passed	
Broadcast Special Days Table	Passed	
Event logs	Passed	
Billing data period 1	Passed	
M-Bus Channel Setup	Passed	
M-Bus Results	Passed	
M-Bus Devices IDs	Passed	
M-Bus profiles	Passed	
M-Bus Load profiles	Passed	
M-Bus control logs	Passed	
M-Bus Disconnect log	Passed	
FIT Push	Passed	
FIT Miscellaneous	Passed	
Optical Port Connectivity	Passed	
Consumer Information Interface	Passed	
FIT Conformance Test Report		
<pre> ***** IDIS Conformance test report 17-JUN-2020 11:23:12 iCTT1 Package 1, Edition 1.1, Revision 1 (211) Licensed to: KEMA-IDIS Cert. Tester: Bas Roelofsen ***** ***** * Identification * ***** Manufacturer = { Name = '\Meter and Control d.o.o.' ThreeLettersId = '\MAC' } DeviceUnderTest = { Type = '\ST401D' IDISDeviceType = 101 IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M] SerialNr = 194047 } Active firmware version (1-0:0.2.0.255) = \V030540 ***** * Summary * ***** PASSED 230 FAILED 0 DISABLED 0 INAPPLICABLE 12 INCONCLUSIVE 0 FATAL 0 TOTAL 242 ***** Test Case 1 : Discovery, 1 item(s) ***** (1) Meter Discovery PASSED ***** Test Case 2 : Connect and release, 4 item(s) </pre>		

```

*****
(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="04" />
    </Data>
(4) .max_receiving_gain PASSED
    <Data>
    <Unsigned value="2A" />
    </Data>
(5) .max_transmitting_gain PASSED
    <Data>
    <Unsigned value="00" />
    </Data>
(6) .search_initiator_gain PASSED
    <Data>
    <Unsigned value="00" />
    </Data>
(7) .frequencies PASSED
    <Data>
    <Structure Qty="0002" >
    <DoubleLongUnsigned value="0000F744" />
    <DoubleLongUnsigned value="00012110" />
    </Structure>
    </Data>
(8) .mac_address PASSED
    <Data>
    <LongUnsigned value="0006" />
    </Data>
(9) .mac_group_addresses PASSED
    <Data>
    <Array Qty="0005" >
    <LongUnsigned value="0000" />
    <LongUnsigned value="0000" />
    <LongUnsigned value="0000" />
    <LongUnsigned value="0000" />
    <LongUnsigned value="0000" />
    </Array>
    </Data>
(10) .repeater PASSED
    <Data>
    <Enum value="02" />
    </Data>
(11) .repeater_status PASSED
    <Data>
    <Bool value="01" />
    </Data>
(12) .min_delta_credit PASSED
    <Data>
    <Unsigned value="00" />
    </Data>
(13) .initiator_mac_address PASSED
    <Data>
    <LongUnsigned value="0C00" />
    </Data>
(14) .synchronization_locked PASSED
    <Data>
    <Bool value="01" />
    </Data>
(15) .transmission_speed PASSED
    <Data>
    <Enum value="03" />
    </Data>

```

<i>Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950)</i>	
(16) .logical_name	PASSED
<pre> <Data> <OctetString value="00001A0100FF" /> </Data> </pre>	
(17) .active_initiator	PASSED
<pre> <Data> <Structure Qty="0003" > <OctetString value="4C475A1169000000" /> <LongUnsigned value="0C00" /> <Unsigned value="01" /> </Structure> </Data> </pre>	
<i>Mngmt Get S-FSK MAC synchronisation timeouts 0-0:26.2.0.255 (@1955)</i>	
(18) .logical_name	PASSED
<pre> <Data> <OctetString value="00001A0200FF" /> </Data> </pre>	
(19) .search_initiator_timeout	PASSED
<pre> <Data> <LongUnsigned value="0000" /> </Data> </pre>	
(20) .synchronization_confirmation_timeout	PASSED
<pre> <Data> <LongUnsigned value="0003" /> </Data> </pre>	
(21) .timeout_not_addressed	PASSED
<pre> <Data> <LongUnsigned value="0168" /> </Data> </pre>	
(22) .timeout_frame_not_OK	PASSED
<pre> <Data> <LongUnsigned value="0028" /> </Data> </pre>	
<i>Mngmt Get S-FSK MAC counters 0-0:26.3.0.255 (@1962)</i>	
(23) .logical_name	PASSED
<pre> <Data> <OctetString value="00001A0300FF" /> </Data> </pre>	
(24) .synchronization_register	PASSED
<pre> <Data> <Array Qty="0003" > <Structure Qty="0002" > <LongUnsigned value="0C00" /> <DoubleLongUnsigned value="00000006" /> </Structure> <Structure Qty="0002" > <LongUnsigned value="0000" /> <DoubleLongUnsigned value="00000000" /> </Structure> <Structure Qty="0002" > <LongUnsigned value="0000" /> <DoubleLongUnsigned value="00000000" /> </Structure> </Array> </Data> </pre>	
(25) .desynchronization_listing	PASSED
<pre> <Data> <Structure Qty="0005" > <DoubleLongUnsigned value="00000003" /> <DoubleLongUnsigned value="00000000" /> <DoubleLongUnsigned value="00000005" /> <DoubleLongUnsigned value="00000000" /> <DoubleLongUnsigned value="00000000" /> </Structure> </Data> </pre>	
(26) .broadcast_frames_counter	PASSED
<pre> <Data> <Array Qty="0003" > <Structure Qty="0002" > <LongUnsigned value="0C00" /> <DoubleLongUnsigned value="0000000A" /> </Structure> <Structure Qty="0002" > <LongUnsigned value="0000" /> <DoubleLongUnsigned value="00000000" /> </Structure> <Structure Qty="0002" > <LongUnsigned value="0000" /> </Structure> </Array> </pre>	

```

                <DoubleLongUnsigned value="00000000" />
            </Structure>
        </Array>
    </Data>
(27) .repetitions_counter PASSED
    <Data>
        <DoubleLongUnsigned value="0000000F" />
    </Data>
(28) .transmissions_counter PASSED
    <Data>
        <DoubleLongUnsigned value="000001BA" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
        <DoubleLongUnsigned value="000001D3" />
    </Data>
(30) .CRC_NOK_frames_counter PASSED
    <Data>
        <DoubleLongUnsigned value="00000000" />
    </Data>

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

Mngmt Get S-FSK Reporting system list 0-0:26.6.0.255 (@1978)
(34) .logical_name
INAPPLICABLE
    optional object is not implemented
(35) .reporting_system_list
INAPPLICABLE
    optional object is not implemented

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

Mngmt Get Device ID 1, manufacturing number 0-0:96.1.0.255 (@46)
(1) .logical_name PASSED
    <Data>
        <OctetString value="0000600100FF" />
    </Data>
(2) .value PASSED
    <Data>
        <OctetString value="\194047" />
    </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="\ST401D" />
    </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="FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF" />
    </Data>

*****
Test Case 5 : Read SAP Assignment, 2 item(s)
*****

Mngmt Get SAP Assignment 0-0:41.0.0.255 (@4)
(1) .logical_name PASSED
    <Data>
    <OctetString value="0000290000FF" />
    </Data>
(2) .SAP_assignment_list PASSED
    <Data>
    <Array Qty="0001" >
    <Structure Qty="0002" >
    <Longunsigned value="0001" />
    <OctetString value="\MAC1010700194047" />
    </Structure>
    </Array>
    </Data>

*****
Test Case 6 : Read COSEM logical device name, 2 item(s)
*****

Mngmt Get COSEM logical device name 0-0:42.0.0.255 (@42)
(1) .logical_name PASSED
    <Data>
    <OctetString value="00002A0000FF" />
    </Data>
(2) .value PASSED
    <Data>
    <OctetString value="\MAC1010700194047" />
    </Data>

*****
Test Case 7 : Read Active FW version, 12 item(s)
*****

Mngmt Get Active firmware version 1-0:0.2.0.255 (@321)
(1) .logical_name PASSED
    <Data>
    <OctetString value="0100000200FF" />
    </Data>
(2) .value PASSED
    <Data>
    <Octetstring value="\V030540" />
    </Data>

Mngmt Get Active firmware version signature 1-0:0.2.8.255 (@325)
(3) .logical_name PASSED
    <Data>

```

```

        <OctetString value="0100000208FF" />
    </Data>
(4) .value PASSED
    <Data>
        <OctetString value="\08BC2931" />
    </Data>

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

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

Pre Set Clock 0-0:1.0.0.255 (@75)
(1) .time PASSED
    <Data>
        <OctetString value="07E40611030C0000FF8000FF" />
    </Data>

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

Mngmt Get Clock 0-0:1.0.0.255 (@75)
(1) .time PASSED
    <Data>
        <OctetString value="07E40611030C0003FFFF8880" />
    </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>
        </Array>
    </Data>

```



```

</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0104FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0105FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0106FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0107FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0108FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0109FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0201FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0202FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>

```

```

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

```

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

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

PASSED

```

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

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0104FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0105FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0106FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0107FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0108FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0109FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0201FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0202FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >

```

```

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

```

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

Mngmt Get Disconnecto Control Log 0-0:99.98.2.255 (@181)

(1) .buffer

entries_in_use: 6

```

<Data>
  <DoubleLongUnsigned value="00000006" />
</Data>

```

capture_objects:

```

<Data>
  <Array Qty="0003" >
    <Structure Qty="0004" >
      <LongUnsigned value="0008" />
      <OctetString value="0000010000FF" />
      <Integer value="02" />
      <LongUnsigned value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned value="0001" />
      <OctetString value="0000600B02FF" />
      <Integer value="02" />
      <LongUnsigned value="0000" />
    </Structure>
  </Array>

```

PASSED

```

</Structure>
<Structure Qty="0004" >
  <LongUnsigned Value="0047" />
  <OctetString Value="0000110000FF" />
  <Integer Value="03" />
  <LongUnsigned Value="0000" />
</Structure>
</Array>
</Data>
Buffer has 6 elements:
<_Data>
  <Array Qty="0006" >
    <Structure Qty="0003" >
      <OctetString Value="07E40117040A0A1D00800000" />
      <Enum Value="FF" />
      <DoubleLongUnsigned Value="00004268" />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07E406010100031300800080" />
      <Enum Value="43" />
      <DoubleLongUnsigned Value="00004268" />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07E406010100070400800080" />
      <Enum Value="43" />
      <DoubleLongUnsigned Value="00004268" />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07E406010100083100800080" />
      <Enum Value="43" />
      <DoubleLongUnsigned Value="00004268" />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07E4060101000A2100800080" />
      <Enum Value="43" />
      <DoubleLongUnsigned Value="00004268" />
    </Structure>
    <Structure Qty="0003" >
      <OctetString Value="07E4060101000C1500800080" />
      <Enum Value="43" />
      <DoubleLongUnsigned Value="00004268" />
    </Structure>
  </Array>
</_Data>
Earliest date: 23-JAN-2020 10:10:29, latest date: 01-JUN-2020 00:12:21
Middle date: 01-JUN-2020 00:08:49

```

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

(2) .buffer

PASSED

```

entries_in_use: 14
<Data>
  <DoubleLongUnsigned Value="0000000E" />
</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 14 elements:
<_Data>
  <Array Qty="000E" >
    <Structure Qty="0002" >
      <OctetString Value="07E406110303260A00800080" />
      <Enum Value="FF" />
    </Structure>
    <Structure Qty="0002" >
      <OctetString Value="07E406110303261F00800080" />
      <Enum Value="01" />
    </Structure>
  </Array>

```

```

<Structure Qty="0002" >
  <OctetString Value="07E406110303262400800080" />
  <Enum Value="02" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4061103032C0200800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4061103032C1D00800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4061103032C3100800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4061103032D0700800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4061103032D2700800080" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4061103033A2800800080" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4061103033A2800800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4061103040D0800800080" />
  <Enum Value="2F" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E406110304271600800080" />
  <Enum Value="04" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E40611030C000100800080" />
  <Enum Value="05" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E40611030C000100800080" />
  <Enum Value="2F" />
</Structure>
</Array>
</Data>
Earliest date: 17-JUN-2020 03:38:10, latest date: 17-JUN-2020 12:00:01
Middle date: 17-JUN-2020 03:45:39

```

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

(3) .buffer

PASSED

```

entries_in_use: 6
  <Data>
    <DoubleLongUnsigned Value="00000006" />
  </Data>
capture_objects:
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0000600B01FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
Buffer has 6 elements:
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0002" >
        <OctetString Value="07E40117040A0A1D00800000" />

```

```

    <Enum Value="FF" />
  </Structure>
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E406010100022E00800080" />
  <Enum Value="2E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E406010100070000800080" />
  <Enum Value="2E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E406010100082D00800080" />
  <Enum Value="2E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4060101000A1E00800080" />
  <Enum Value="2E" />
</Structure>
<Structure Qty="0002" >
  <OctetString Value="07E4060101000C1200800080" />
  <Enum Value="2E" />
</Structure>
</Array>
</Data>
Earliest date: 23-JAN-2020 10:10:29, latest date: 01-JUN-2020 00:12:18
Middle date: 01-JUN-2020 00:08:45

Mngmt Get Power Quality Log 0-0:99.98.4.255 (@1249)
(4) .buffer
entries_in_use: 6
  <Data>
    <DoubleLongUnsigned Value="00000006" />
  </Data>
capture_objects:
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0000600B04FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
Buffer has 6 elements:
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0002" >
        <OctetString Value="07E40117040A0A1E00800000" />
        <Enum Value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E406010100042C00800080" />
        <Enum Value="52" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E406010100070C00800080" />
        <Enum Value="52" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E406010100083700800080" />
        <Enum Value="52" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E4060101000A2A00800080" />
        <Enum Value="52" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E4060101000C1D00800080" />
        <Enum Value="52" />
      </Structure>
    </Array>
  </Data>
Earliest date: 23-JAN-2020 10:10:30, latest date: 01-JUN-2020 00:12:29
Middle date: 01-JUN-2020 00:08:55

```

PASSED

 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)
 (I) .buffer

PASSED

```

entries_in_use: 5
  <Data>
    <DoubleLongUnsigned Value="00000005" />
  </Data>
capture_objects:
  <Data>
    <Array Qty="0005" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100010801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100010802FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020801FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0003" />
        <OctetString Value="0100020802FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
Buffer has 5 elements:
  <_Data>
    <Array Qty="0005" >
      <Structure Qty="0005" >
        <OctetString Value="07E402010600000000800000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0005" >
        <OctetString Value="07E403010700000000800000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0005" >
        <OctetString Value="07E404010300000000800080" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0005" >
        <OctetString Value="07E405010500000000800080" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0005" >
        <OctetString Value="07E406010100000000800080" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
    </Array>
  </_Data>

```



```

                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
            </Structure>
        </Array>
    </_Data>
    Earliest date: 01-FEB-2020 00:00:00, latest date: 01-JUN-2020 00:00:00
    Middle date: 01-APR-2020 00:00:00

*****
Test Case 14 : M-Bus G350 uncorr & valve, 130 item(s)
*****

Mngmt Get M-Bus master port setup 1 0-0:24.6.0.255 (@1475)
(1) .comm_speed PASSED
    <Data>
        <Enum value="03" />
    </Data>

Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1483)
(2) .mbus_port_reference PASSED
    <Data>
        <OctetString value="0000180600FF" />
    </Data>
(3) .capture_definition PASSED
    <Data>
        <Array Qty="0002" >
            <Structure Qty="0002" >
                <OctetString value="\L" />
                <OctetString value="933A" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString value="8940" />
                <OctetString value="FD1A" />
            </Structure>
        </Array>
    </Data>
(4) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned value="00000E10" />
    </Data>
(5) .primary_address PASSED
    <Data>
        <Unsigned value="01" />
    </Data>
(6) .identification_number PASSED
    <Data>
        <DoubleLongUnsigned value="00047BB1" />
    </Data>
(7) .manufacturer_id PASSED
    <Data>
        <LongUnsigned value="19AC" />
    </Data>
(8) .version PASSED
    <Data>
        <Unsigned value="02" />
    </Data>
(9) .device_type PASSED
    <Data>
        <Unsigned value="03" />
    </Data>
(10) .access_number PASSED
    <Data>
        <Unsigned value="3D" />
    </Data>
(11) .status PASSED
    <Data>
        <Unsigned value="00" />
    </Data>
(12) .alarm PASSED
    <Data>
        <Unsigned value="00" />
    </Data>

Mngmt Get M-Bus client channel 2 0-2:24.1.0.255 (@1505)
(13) .mbus_port_reference PASSED
    <Data>
        <OctetString value="0000180600FF" />
    </Data>
(14) .capture_definition PASSED
    <Data>
        <Array Qty="0002" >

```

```

        <Structure Qty="0002" >
          <OctetString value="\L" />
          <OctetString value="933A" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString value="8940" />
          <OctetString value="FD1A" />
        </Structure>
      </Array>
    </Data>
(15) .capture_period PASSED
    <Data>
      <DoubleLongUnsigned value="00000E10" />
    </Data>
(16) .primary_address PASSED
    <Data>
      <Unsigned value="02" />
    </Data>
(17) .identification_number PASSED
    <Data>
      <DoubleLongUnsigned value="00047BB2" />
    </Data>
(18) .manufacturer_id PASSED
    <Data>
      <LongUnsigned value="19AC" />
    </Data>
(19) .version PASSED
    <Data>
      <Unsigned value="02" />
    </Data>
(20) .device_type PASSED
    <Data>
      <Unsigned value="03" />
    </Data>
(21) .access_number PASSED
    <Data>
      <Unsigned value="2A" />
    </Data>
(22) .status PASSED
    <Data>
      <Unsigned value="00" />
    </Data>
(23) .alarm PASSED
    <Data>
      <Unsigned value="00" />
    </Data>
Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1527)
(24) .mbus_port_reference PASSED
    <Data>
      <OctetString value="0000180600FF" />
    </Data>
(25) .capture_definition PASSED
    <Data>
      <Array Qty="0002" >
        <Structure Qty="0002" >
          <OctetString value="\L" />
          <OctetString value="933A" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString value="8940" />
          <OctetString value="FD1A" />
        </Structure>
      </Array>
    </Data>
(26) .capture_period PASSED
    <Data>
      <DoubleLongUnsigned value="00000E10" />
    </Data>
(27) .primary_address PASSED
    <Data>
      <Unsigned value="03" />
    </Data>
(28) .identification_number PASSED
    <Data>
      <DoubleLongUnsigned value="00047BB4" />
    </Data>
(29) .manufacturer_id PASSED
    <Data>
      <LongUnsigned value="19AC" />
    </Data>

```

(30)	.version <Data> <Unsigned value="02" /> </Data>	PASSED
(31)	.device_type <Data> <Unsigned value="03" /> </Data>	PASSED
(32)	.access_number <Data> <Unsigned value="27" /> </Data>	PASSED
(33)	.status <Data> <Unsigned value="00" /> </Data>	PASSED
(34)	.alarm <Data> <Unsigned value="00" /> </Data>	PASSED
<i>Mngmt Get M-Bus client channel 4 0-4:24.1.0.255 (@1549)</i>		
(35)	.mbus_port_reference <Data> <OctetString value="0000180600FF" /> </Data>	PASSED
(36)	.capture_definition <Data> <Array Qty="0002" > <Structure Qty="0002" > <OctetString value="\L" /> <OctetString value="933A" /> </Structure> <Structure Qty="0002" > <OctetString value="8940" /> <OctetString value="FD1A" /> </Structure> </Array> </Data>	PASSED
(37)	.capture_period <Data> <DoubleLongUnsigned value="00000E10" /> </Data>	PASSED
(38)	.primary_address <Data> <Unsigned value="04" /> </Data>	PASSED
(39)	.identification_number <Data> <DoubleLongUnsigned value="00047BB3" /> </Data>	PASSED
(40)	.manufacturer_id <Data> <LongUnsigned value="19AC" /> </Data>	PASSED
(41)	.version <Data> <Unsigned value="02" /> </Data>	PASSED
(42)	.device_type <Data> <Unsigned value="03" /> </Data>	PASSED
(43)	.access_number <Data> <Unsigned value="5A" /> </Data>	PASSED
(44)	.status <Data> <Unsigned value="00" /> </Data>	PASSED
(45)	.alarm <Data> <Unsigned value="00" /> </Data>	PASSED
<i>Mngmt Get M-Bus value channel 1, instance 1 0-1:24.2.1.255 (@1571)</i>		
(46)	.value <Data> <DoubleLongUnsigned value="00000DD2" /> </Data>	PASSED

(47) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> </pre>	
(48) .status	PASSED
<pre> <Data> <Unsigned value="00" /> </Data> </pre>	
<i>Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1579)</i>	
(49) .value	PASSED
<pre> <Data> <DoubleLongUnsigned value="00000001" /> </Data> </pre>	
(50) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data> </pre>	
(51) .status	PASSED
<pre> <Data> <Unsigned value="00" /> </Data> </pre>	
<i>Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1603)</i>	
(52) .value	PASSED
<pre> <Data> <DoubleLongUnsigned value="00000A0C" /> </Data> </pre>	
(53) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> </pre>	
(54) .status	PASSED
<pre> <Data> <Unsigned value="00" /> </Data> </pre>	
<i>Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1611)</i>	
(55) .value	PASSED
<pre> <Data> <DoubleLongUnsigned value="00000001" /> </Data> </pre>	
(56) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data> </pre>	
(57) .status	PASSED
<pre> <Data> <Unsigned value="00" /> </Data> </pre>	
<i>Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1635)</i>	
(58) .value	PASSED
<pre> <Data> <DoubleLongUnsigned value="00000D1B" /> </Data> </pre>	
(59) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> </pre>	
(60) .status	PASSED
<pre> <Data> <Unsigned value="00" /> </Data> </pre>	
<i>Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1643)</i>	

(61) .value	PASSED
<Data>	
<DoubleLongUnsigned value="00000001" />	
</Data>	
(62) .scaler_unit	PASSED
<Data>	
<Structure Qty="0002" >	
<Integer value="00" />	
<Enum value="FF" />	
</Structure>	
</Data>	
(63) .status	PASSED
<Data>	
<Unsigned value="00" />	
</Data>	
Mngmt Get M-Bus Value channel 4, instance 1 0-4:24.2.1.255 (@1667)	
(64) .value	PASSED
<Data>	
<DoubleLongUnsigned value="00000989" />	
</Data>	
(65) .scaler_unit	PASSED
<Data>	
<Structure Qty="0002" >	
<Integer value="FD" />	
<Enum value="0D" />	
</Structure>	
</Data>	
(66) .status	PASSED
<Data>	
<Unsigned value="00" />	
</Data>	
Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1675)	
(67) .value	PASSED
<Data>	
<DoubleLongUnsigned value="00000001" />	
</Data>	
(68) .scaler_unit	PASSED
<Data>	
<Structure Qty="0002" >	
<Integer value="00" />	
<Enum value="FF" />	
</Structure>	
</Data>	
(69) .status	PASSED
<Data>	
<Unsigned value="00" />	
</Data>	
Mngmt Get M-Bus Device ID 1 channel 1 0-1:96.1.0.255 (@1699)	
(70) .value	PASSED
<Data>	
<OctetString value="\00000540029380911" />	
</Data>	
Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1703)	
(71) .value	PASSED
<Data>	
<OctetString value="\00000540029381011" />	
</Data>	
Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1707)	
(72) .value	PASSED
<Data>	
<OctetString value="\00000540029381211" />	
</Data>	
Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1711)	
(73) .value	PASSED
<Data>	
<OctetString value="\00000540029381111" />	
</Data>	
Mngmt Get M-Bus Device ID 2 channel 1 0-1:96.1.1.255 (@1715)	
(74) .value	PASSED
<Data>	
<OctetString value="\12345678" />	
</Data>	
Mngmt Get M-Bus Device ID 2 channel 2 0-2:96.1.1.255 (@1719)	

(75) .value	PASSED
<pre> <Data> <OctetString Value="\12345678" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 2 channel 3 0-3:96.1.1.255 (@1723)	
(76) .value	PASSED
<pre> <Data> <OctetString Value="\12345678" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 2 channel 4 0-4:96.1.1.255 (@1727)	
(77) .value	PASSED
<pre> <Data> <OctetString Value="\12345678" /> </Data> </pre>	
Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1747)	
(78) .buffer	PASSED
<pre> entries_in_use: 7 <Data> <DoubleLongUnsigned Value="00000007" /> </Data> capture_objects: <Data> <Array Qty="0006" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0001600A03FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0001180201FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0001180202FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0001180203FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0001180204FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data> Buffer has 7 elements: <_Data> <Array Qty="0007" > <Structure Qty="0006" > <OctetString Value="07E406010100050000800080" /> <Unsigned Value="2C" /> <DoubleLongUnsigned Value="00000000" /> <DoubleLongUnsigned Value="00000000" /> <DoubleLongUnsigned Value="00000000" /> <DoubleLongUnsigned Value="00000000" /> </Structure> <Structure Qty="0006" > <OctetString Value="07E406010100070000800080" /> <Unsigned Value="08" /> <DoubleLongUnsigned Value="00000000" /> <DoubleLongUnsigned Value="00000000" /> <DoubleLongUnsigned Value="00000000" /> </Structure> </Array> </_Data> </pre>	

```

    <DoubleLongUnsigned value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString value="07E406010100080000800080" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString value="07E4060101000A0000800080" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString value="07E4060101000C0000800080" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString value="07E406110304000000800080" />
    <Unsigned Value="AC" />
    <DoubleLongUnsigned value="0000DD2" />
    <DoubleLongUnsigned value="00000001" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString value="07E40611030C000000800080" />
    <Unsigned Value="2C" />
    <DoubleLongUnsigned value="0000DD2" />
    <DoubleLongUnsigned value="00000001" />
    <DoubleLongUnsigned value="00000000" />
    <DoubleLongUnsigned value="00000000" />
  </Structure>
</Array>
</Data>
Earliest date: 01-JUN-2020 00:05:00, latest date: 17-JUN-2020 12:00:00
Middle date: 01-JUN-2020 00:10:00
(79) .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" />
    </Structure>
  </Array>

```

PASSED

```

        <OctetString value="0001180204FF" />
        <Integer value="02" />
        <LongUnsigned value="0000" />
    </Structure>
</Array>
</Data>
(80) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned value="00000E10" />
    </Data>
(81) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned value="00000007" />
    </Data>

Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1758)
(82) .buffer PASSED
    entries_in_use: 7
    <Data>
        <DoubleLongUnsigned value="00000007" />
    </Data>
    capture_objects:
    <Data>
        <Array Qty="0006" >
            <Structure Qty="0004" >
                <LongUnsigned value="0008" />
                <OctetString value="0000010000FF" />
                <Integer value="02" />
                <LongUnsigned value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned value="0001" />
                <OctetString value="0002600A03FF" />
                <Integer value="02" />
                <LongUnsigned value="0000" />
            </Structure>
            <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 7 elements:
    <Data>
        <Array Qty="0007" >
            <Structure Qty="0006" >
                <OctetString value="07E406010100050000800080" />
                <Unsigned value="2C" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
            </Structure>
            <Structure Qty="0006" >
                <OctetString value="07E406010100070000800080" />
                <Unsigned value="08" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
            </Structure>
        </Array>
    </Data>

```



```

<Structure Qty="0006" >
  <OctetString Value="07E406010100080000800080" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07E4060101000A0000800080" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07E4060101000C0000800080" />
  <Unsigned Value="08" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07E406110304000000800080" />
  <Unsigned Value="AC" />
  <DoubleLongUnsigned Value="00000A0C" />
  <DoubleLongUnsigned Value="00000001" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
<Structure Qty="0006" >
  <OctetString Value="07E40611030C000000800080" />
  <Unsigned Value="2C" />
  <DoubleLongUnsigned Value="00000A0C" />
  <DoubleLongUnsigned Value="00000001" />
  <DoubleLongUnsigned Value="00000000" />
  <DoubleLongUnsigned Value="00000000" />
</Structure>
</Array>
</Data>
Earliest date: 01-JUN-2020 00:05:00, latest date: 17-JUN-2020 12:00:00
Middle date: 01-JUN-2020 00:10:00
(83) .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" />
      </Structure>
    </Array>
  </Data>

```

PASSED

```

        <LongUnsigned value="0000" />
    </Structure>
</Array>
</Data>
(84) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned value="00000E10" />
    </Data>
(85) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned value="00000007" />
    </Data>

Mngmt Get M-Bus Master Load profile for channel 3 0-3:24.3.0.255 (@1769)
(86) .buffer PASSED
    entries_in_use: 7
    <Data>
        <DoubleLongUnsigned value="00000007" />
    </Data>
    capture_objects:
    <Data>
        <Array Qty="0006" >
            <Structure Qty="0004" >
                <LongUnsigned value="0008" />
                <OctetString value="0000010000FF" />
                <Integer value="02" />
                <LongUnsigned value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned value="0001" />
                <OctetString value="0003600A03FF" />
                <Integer value="02" />
                <LongUnsigned value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned value="0004" />
                <OctetString value="0003180201FF" />
                <Integer value="02" />
                <LongUnsigned value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned value="0004" />
                <OctetString value="0003180202FF" />
                <Integer value="02" />
                <LongUnsigned value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned value="0004" />
                <OctetString value="0003180203FF" />
                <Integer value="02" />
                <LongUnsigned value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned value="0004" />
                <OctetString value="0003180204FF" />
                <Integer value="02" />
                <LongUnsigned value="0000" />
            </Structure>
        </Array>
    </Data>
    Buffer has 7 elements:
    <_Data>
        <Array Qty="0007" >
            <Structure Qty="0006" >
                <OctetString value="07E406010100050000800080" />
                <Unsigned value="2C" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
            </Structure>
            <Structure Qty="0006" >
                <OctetString value="07E406010100070000800080" />
                <Unsigned value="08" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
                <DoubleLongUnsigned value="00000000" />
            </Structure>
            <Structure Qty="0006" >
                <OctetString value="07E406010100080000800080" />

```

```

    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07E4060101000A0000800080" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07E4060101000C0000800080" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07E406110304000000800080" />
    <Unsigned Value="AC" />
    <DoubleLongUnsigned Value="00000D1B" />
    <DoubleLongUnsigned Value="00000001" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07E40611030C000000800080" />
    <Unsigned Value="2C" />
    <DoubleLongUnsigned Value="00000D1B" />
    <DoubleLongUnsigned Value="00000001" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</Data>
Earliest date: 01-JUN-2020 00:05:00, latest date: 17-JUN-2020 12:00:00
Middle date: 01-JUN-2020 00:10:00
(87) .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>

```

PASSED

```

    </Array>
  </Data>
(88) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned value="00000E10" />
  </Data>
(89) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned value="00000007" />
  </Data>
Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1780)
(90) .buffer PASSED
  entries_in_use: 7
  <Data>
    <DoubleLongUnsigned value="00000007" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0004600A03FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180202FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180203FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180204FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
  Buffer has 7 elements:
  <_Data>
    <Array Qty="0007" >
      <Structure Qty="0006" >
        <OctetString Value="07E406010100050000800080" />
        <Unsigned Value="2C" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07E406010100070000800080" />
        <Unsigned Value="08" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
        <DoubleLongUnsigned Value="00000000" />
      </Structure>
      <Structure Qty="0006" >
        <OctetString Value="07E406010100080000800080" />
        <Unsigned Value="08" />
        <DoubleLongUnsigned Value="00000000" />

```

```

    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07E4060101000A0000800080" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07E4060101000C0000800080" />
    <Unsigned Value="08" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07E406110304000000800080" />
    <Unsigned Value="AC" />
    <DoubleLongUnsigned Value="00000989" />
    <DoubleLongUnsigned Value="00000001" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
  <Structure Qty="0006" >
    <OctetString Value="07E40611030C000000800080" />
    <Unsigned Value="2C" />
    <DoubleLongUnsigned Value="00000989" />
    <DoubleLongUnsigned Value="00000001" />
    <DoubleLongUnsigned Value="00000000" />
    <DoubleLongUnsigned Value="00000000" />
  </Structure>
</Array>
</Data>
Earliest date: 01-JUN-2020 00:05:00, latest date: 17-JUN-2020 12:00:00
Middle date: 01-JUN-2020 00:10:00
(91) .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>

```

PASSED

(92)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned value="00000E10" />	
	</Data>	
(93)	.entries_in_use	PASSED
	<Data>	
	<DoubleLongUnsigned value="00000007" />	
	</Data>	
<i>Mngmt Get M-Bus Master Disconnect control object 1 0-1:24.4.0.255 (@1791)</i>		
(94)	.output_state	PASSED
	<Data>	
	<Bool value="01" />	
	</Data>	
(95)	.control_state	PASSED
	<Data>	
	<Enum value="01" />	
	</Data>	
(96)	.control_mode	PASSED
	<Data>	
	<Enum value="06" />	
	</Data>	
<i>Mngmt Get M-Bus Master Disconnect control object 2 0-2:24.4.0.255 (@1799)</i>		
(97)	.output_state	PASSED
	<Data>	
	<Bool value="01" />	
	</Data>	
(98)	.control_state	PASSED
	<Data>	
	<Enum value="01" />	
	</Data>	
(99)	.control_mode	PASSED
	<Data>	
	<Enum value="06" />	
	</Data>	
<i>Mngmt Get M-Bus Master Disconnect control object 3 0-3:24.4.0.255 (@1807)</i>		
(100)	.output_state	PASSED
	<Data>	
	<Bool value="01" />	
	</Data>	
(101)	.control_state	PASSED
	<Data>	
	<Enum value="01" />	
	</Data>	
(102)	.control_mode	PASSED
	<Data>	
	<Enum value="06" />	
	</Data>	
<i>Mngmt Get M-Bus Master Disconnect control object 4 0-4:24.4.0.255 (@1815)</i>		
(103)	.output_state	PASSED
	<Data>	
	<Bool value="01" />	
	</Data>	
(104)	.control_state	PASSED
	<Data>	
	<Enum value="01" />	
	</Data>	
(105)	.control_mode	PASSED
	<Data>	
	<Enum value="06" />	
	</Data>	
<i>Mngmt Get M-Bus Disconnect control scheduler 0-1:15.0.1.255 (@1823)</i>		
(106)	.executed_script	PASSED
	<Data>	
	<Structure Qty="002" >	
	<OctetString value="00010A006AFF" />	
	<LongUnsigned value="0001" />	
	</Structure>	
	</Data>	
(107)	.type	PASSED
	<Data>	
	<Enum value="01" />	
	</Data>	
(108)	.execution_time	PASSED
	<Data>	
	<Array Qty="0000" >	
	</Array>	

```

</Data>
Mngmt Get M-Bus Disconnecter script table 0-1:10.0.106.255 (@1829)
(109) .scripts
<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>
    <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" >

```

PASSED


```

        <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 Event Objects - M-Bus Master Control logs 4 0-4:96.11.4.255 (@1846)
(110) .value PASSED
    <Data>
        <Enum Value="C2" />
    </Data>

Mngmt Get M-Bus Master Control log object 1 0-1:24.5.0.255 (@1850) PASSED
(111) .buffer
    entries_in_use: 6
    <Data>
        <DoubleLongUnsigned Value="00000006" />
    </Data>
    capture_objects:
    <Data>
        <Array Qty="0002" >
            <Structure Qty="0004" >
                <LongUnsigned Value="0008" />
                <OctetString Value="0000010000FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned Value="0001" />
                <OctetString Value="0001600B04FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
        </Array>
    </Data>
    Buffer has 6 elements:
    <Data>
        <Array Qty="0006" >
            <Structure Qty="0002" >
                <OctetString Value="07E40117040A0A1E00800000" />
                <Enum Value="FF" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="07E406010100060B00800080" />
                <Enum Value="A4" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="07E406010100071900800080" />
                <Enum Value="A4" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="07E406010100090300800080" />
                <Enum Value="A4" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="07E4060101000A3100800080" />
                <Enum Value="A4" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="07E4060101000C2500800080" />
                <Enum Value="A4" />
            </Structure>
        </Array>
    </Data>

```



```

</_Data>
Earliest date: 23-JAN-2020 10:10:30, latest date: 01-JUN-2020 00:12:37
Middle date: 01-JUN-2020 00:09:03
(112) .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="0001600B04FF" />
        <Integer value="02" />
        <LongUnsigned value="0000" />
      </Structure>
    </Array>
  </Data>
(113) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned value="00000000" />
  </Data>
(114) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned value="00000006" />
  </Data>

Mngmt Get M-Bus Master Control log object 2 0-2:24.5.0.255 (@1861)
(115) .buffer PASSED
  entries_in_use: 6
  <Data>
    <DoubleLongUnsigned value="00000006" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0004" >
        <LongUnsigned value="0008" />
        <OctetString value="0000010000FF" />
        <Integer value="02" />
        <LongUnsigned value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned value="0001" />
        <OctetString value="0002600B04FF" />
        <Integer value="02" />
        <LongUnsigned value="0000" />
      </Structure>
    </Array>
  </Data>
  Buffer has 6 elements:
  <_Data>
    <Array Qty="0006" >
      <Structure Qty="0002" >
        <OctetString value="07E40117040A0A1E00800000" />
        <Enum value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E406010100060B00800080" />
        <Enum value="AE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E406010100071900800080" />
        <Enum value="AE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E406010100090300800080" />
        <Enum value="AE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E4060101000A3100800080" />
        <Enum value="AE" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E4060101000C2500800080" />
        <Enum value="AE" />
      </Structure>
    </Array>
  </_Data>

```

```

Earliest date: 23-JAN-2020 10:10:30, latest date: 01-JUN-2020 00:12:37
Middle date: 01-JUN-2020 00:09:03
(116) .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="0002600B04FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
(117) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000000" />
  </Data>
(118) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000006" />
  </Data>

Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1872)
(119) .buffer PASSED
  entries_in_use: 6
  <Data>
    <DoubleLongUnsigned Value="00000006" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0003600B04FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
  Buffer has 6 elements:
  <_Data>
    <Array Qty="0006" >
      <Structure Qty="0002" >
        <OctetString Value="07E40117040A0A1E00800000" />
        <Enum Value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E406010100060B00800080" />
        <Enum Value="B8" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E406010100071900800080" />
        <Enum Value="B8" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E406010100090300800080" />
        <Enum Value="B8" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E4060101000A3100800080" />
        <Enum Value="B8" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="07E4060101000C2500800080" />
        <Enum Value="B8" />
      </Structure>
    </Array>
  </_Data>
Earliest date: 23-JAN-2020 10:10:30, latest date: 01-JUN-2020 00:12:37

```

```

Middle date: 01-JUN-2020 00:09:03
(120) .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="0003600B04FF" />
        <Integer value="02" />
        <LongUnsigned value="0000" />
      </Structure>
    </Array>
  </Data>
(121) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned value="00000000" />
  </Data>
(122) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned value="00000006" />
  </Data>
Mngmt Get M-Bus Master Control log object 4 0-4:24.5.0.255 (@1883)
(123) .buffer PASSED
  entries_in_use: 6
  <Data>
    <DoubleLongUnsigned value="00000006" />
  </Data>
  capture_objects:
  <Data>
    <Array Qty="0002" >
      <Structure Qty="0004" >
        <LongUnsigned value="0008" />
        <OctetString value="0000010000FF" />
        <Integer value="02" />
        <LongUnsigned value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned value="0001" />
        <OctetString value="0004600B04FF" />
        <Integer value="02" />
        <LongUnsigned value="0000" />
      </Structure>
    </Array>
  </Data>
  Buffer has 6 elements:
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0002" >
        <OctetString value="07E40117040A0A1E00800000" />
        <Enum value="FF" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E406010100060B00800080" />
        <Enum value="C2" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E406010100071900800080" />
        <Enum value="C2" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E406010100090300800080" />
        <Enum value="C2" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E4060101000A3100800080" />
        <Enum value="C2" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString value="07E4060101000C2500800080" />
        <Enum value="C2" />
      </Structure>
    </Array>
  </Data>
Earliest date: 23-JAN-2020 10:10:30, latest date: 01-JUN-2020 00:12:37
Middle date: 01-JUN-2020 00:09:03

```

(124) .capture_objects	PASSED
<pre> <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="0004600B04FF" /> <Integer value="02" /> <LongUnsigned value="0000" /> </Structure> </Array> </Data> </pre>	
(125) .capture_period	PASSED
<pre> <Data> <DoubleLongUnsigned value="00000000" /> </Data> </pre>	
(126) .entries_in_use	PASSED
<pre> <Data> <DoubleLongUnsigned value="00000006" /> </Data> </pre>	
Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1898)	
(127) .buffer	PASSED
<pre> entries_in_use: 6 <Data> <DoubleLongUnsigned value="00000006" /> </Data> capture_objects: <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned value="0008" /> <OctetString value="0000010000FF" /> <Integer value="02" /> <LongUnsigned value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned value="0001" /> <OctetString value="0000600B03FF" /> <Integer value="02" /> <LongUnsigned value="0000" /> </Structure> </Array> </Data> </pre>	
Buffer has 6 elements:	
<pre> <_Data> <Array Qty="0006" > <Structure Qty="0002" > <OctetString value="07E40117040A0A2700800000" /> <Enum value="FF" /> </Structure> <Structure Qty="0002" > <OctetString value="07E406010100040800800080" /> <Enum value="68" /> </Structure> <Structure Qty="0002" > <OctetString value="07E406010100070800800080" /> <Enum value="68" /> </Structure> <Structure Qty="0002" > <OctetString value="07E406010100083400800080" /> <Enum value="68" /> </Structure> <Structure Qty="0002" > <OctetString value="07E4060101000A2500800080" /> <Enum value="68" /> </Structure> <Structure Qty="0002" > <OctetString value="07E4060101000C1900800080" /> <Enum value="68" /> </Structure> </Array> </_Data> </pre>	
<p>Earliest date: 23-JAN-2020 10:10:39, latest date: 01-JUN-2020 00:12:25 Middle date: 01-JUN-2020 00:08:52</p>	
(128) .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>
(129) .capture_period PASSED
<Data>
  <DoubleLongUnsigned Value="00000000" />
</Data>
(130) .entries_in_use PASSED
<Data>
  <DoubleLongUnsigned Value="00000006" />
</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="04" />
  </Data>
(4) .max_receiving_gain PASSED
  <Data>
    <Unsigned Value="2A" />
  </Data>
(5) .max_transmitting_gain PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(6) .search_initiator_gain PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(7) .frequencies PASSED
  <Data>
    <Structure Qty="0002" >
      <DoubleLongUnsigned Value="0000F744" />
      <DoubleLongUnsigned Value="00012110" />
    </Structure>
  </Data>
(8) .mac_address PASSED
  <Data>
    <LongUnsigned Value="0006" />
  </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>

```

	<pre> <Bool value="01" /> </Data> (12) .min_delta_credit PASSED <Data> <Unsigned value="00" /> </Data> (13) .initiator_mac_address PASSED <Data> <LongUnsigned value="0C00" /> </Data> (14) .synchronization_locked PASSED <Data> <Bool value="01" /> </Data> (15) .transmission_speed PASSED <Data> <Enum value="03" /> </Data> Mngmt Get S-FSK Active Initiator 0-0:26.1.0.255 (@1950) (16) .logical_name PASSED <Data> <OctetString value="00001A0100FF" /> </Data> (17) .active_initiator PASSED <Data> <Structure Qty="0003" > <OctetString value="4C475A1169000000" /> <LongUnsigned value="0C00" /> <Unsigned value="01" /> </Structure> </Data> Mngmt Get S-FSK MAC synchronisation timeouts 0-0:26.2.0.255 (@1955) (18) .logical_name PASSED <Data> <OctetString value="00001A0200FF" /> </Data> (19) .search_initiator_timeout PASSED <Data> <LongUnsigned value="0000" /> </Data> (20) .synchronization_confirmation_timeout PASSED <Data> <LongUnsigned value="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="00000006" /> </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="00000003" /> </Structure> </Data> </pre>
--	---

```

        <DoubleLongUnsigned value="00000000" />
        <DoubleLongUnsigned value="00000005" />
        <DoubleLongUnsigned value="00000000" />
        <DoubleLongUnsigned value="00000000" />
    </Structure>
</Data>
(26) .broadcast_frames_counter PASSED
    <Data>
        <Array Qty="0003" >
            <Structure Qty="0002" >
                <LongUnsigned value="0C00" />
                <DoubleLongUnsigned value="0000000A" />
            </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="00000015" />
    </Data>
(28) .transmissions_counter PASSED
    <Data>
        <DoubleLongUnsigned value="00000336" />
    </Data>
(29) .CRC_OK_frames_counter PASSED
    <Data>
        <DoubleLongUnsigned value="00000350" />
    </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 *
//* Date: 17-06-2020
//*****

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

```



```

DeviceUnderTest = {
  Type = '\ST401D'
  IDISDeviceType = 101
  IDISFunctionType = [Extension_D, Extension_L, Extension_M]
  SerialNr = 00194047
}

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)
+ '1-0:1.5.0.255|4,' // Last Average Demand Register 1 - Active energy import (+A) (@762)
+ '1-0:2.5.0.255|4,' // Last Average Demand Register 2 - Active energy export (-A) (@770)
+ '1-0:3.5.0.255|4,' // Last Average Demand Register 3 - Reactive energy import (+R)
(@778)
+ '1-0:4.5.0.255|4,' // Last Average Demand Register 4 - Reactive energy export (-R)
(@786)
+ '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 = {
    // authentication_mechanism_name
    AttributeId = 6
    AccessRights = [GET,SET]
  }
  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>'
  }
}

// Set special days to 30 entries
InstanceExtraInfo = {
  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>'
+ '    </Array>'
  }
}

```



```

+'      <OctetString value="FFFF0302FF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned value="0001" />'
+'      <OctetString value="FFFF0303FF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned value="0001" />'
+'      <OctetString value="FFFF0304FF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned value="0001" />'
+'      <OctetString value="FFFF0305FF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned value="0001" />'
+'      <OctetString value="FFFF0306FF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned value="0001" />'
+'      <OctetString value="FFFF0307FF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned value="0001" />'
+'      <OctetString value="FFFF0308FF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned value="0001" />'
+'      <OctetString value="FFFF0309FF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned value="0001" />'
+'      <OctetString value="FFFF030AFF" />'
+'      <Unsigned value="02" />'
+'    </Structure>'
+'  </Array>'
+'</Data>'
+} // close instance extra info
}

InstanceExtraInfo = {
  // Set clock to 21/06/2018 11:00:00
  LogicalName = '0-0:1.0.0.255'
  ClassId = 8
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><OctetString value="07E40611030C0000FF8000FF" /></Data>' // yyyy mm
dd dow hh mm ss
  }
}

TestParameters = {
  MeterDiscoveryTimeout = 240000
  DefaultAccessTimeout = 240000
  DefaultPriority = 5
  ConnectDisconnectDelay = 12000
  DCSystemTitle = '4C475A1169000000' //DNV GL DC System Title

  ImageTransfer = {
    ImageIdentifier = '\MAC-ST401D-HW2.12'
    ImageFileName = '\MACtest14052020.image'
    Timeout = 120000
  }
}

TestOptions = {
}

PLCCConfig = {
  AddrMAC = 0xC00
  TimeoutNotAddr = 360
}

```

```

MaxSubFrames = 7
TimeUpdatePeriod = 0
BkgTaskEnabled = 1
BkgMinDelay = 60
DiscoverTimeSlots = 20
ResponseProbability = 100
MaxCredit = 2
DiscoverPeriod = 0
TransmissionGain = 0
ReceptionGain = 8
BaudRate = 1
InputFrequency = 0
NbComOkDecrCredit = 3
DecrCredit = 1
IncrCredit = 2
MaxRetry = 1
RepeaterCallEnabled = 0
RepeaterCallLevel = 1000
NewBcp1TSlotCount = 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
    Hd1cBaud = 9600
  }

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

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

TestMode:           Tunnel
Test Plan Signature: 31C7F4F1C5A6BC9F64702DA9F7CF857A
Object Model:       IDIS-S01-005 V1.24 120510 IDIS - object model - FIT-MBUS Tests G350
(CorrectedAndValve status)-20150220.xlsx
DUT system title:   4D4143657002F5FF
DC MeterId:         MAC657002F5FF
Run number:         399
--

754C7C4400251F33E389948365A457B8

```