

Final Interoperability Test Report

FIT #: **63**
Date: 05.02.2021
Location: DNV-GL, Arnhem, Netherlands
Page 1 of 41

APPLICANT

Company: Meter&Control doo

Address: Tršćanska 21, 11080 Zemun, Serbia

DEVICE		
Device type	SM401D	
<i>Type indication on MID certificate</i>		<i>MID Certificate No.</i>
SM401D		G3.2009.406.2.A4
<i>IDIS Specification reference</i>	<i>DNV-gl IDIS Certification run No</i>	<i>Digital signature of the test report.</i>
Package 2 ed. 2.0	1306	BFC18D5882976F2087BC007B67CDC246
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input checked="" type="checkbox"/>	0063	<input type="checkbox"/>
<i>General information about the device</i>		

FIRMWARE VERSIONS TESTED				<i>Final Interoperability Test No. 63</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	\V010326	\V040211	\V000011	Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #63

Device: SM401D

DNV-GL, Arnhem, Netherlands, 05.02.2021

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FIRMWARE VERSIONS HISTORY				<i>Final Integration Test</i>	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	\V010326	\V040211	\V000011	63	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

```

*****
IDIS Conformance test report
05-FEB-2021 10:20:47
iCTT2 Package 2, Edition 2.0, Revision 1 (136)
Licensed to: KEMA-IDIS Cert.
Tester: Tom Levels
*****

```

```

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

```

```

Manufacturer = {
  Name = '\Meter&Control d.o.o'
  ThreeLettersId = '\MAC'
}
DeviceUnderTest = {
  Type = '\SM401D'
  IDISDeviceType = 102
  IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M]
  SerialNr = 194195
  IPVersion = IPV6
  DataLinkLayer = G3
  EUI64Address = '020000FFFE02F693'
  ConsumerInformationPush = TRUE
  SMSSupported = FALSE
  ClipCallSupported = FALSE
}

```

```

Active firmware identifier (1-0:0.2.0.255) = \V010326
Active firmware identifier 1 (1-1:0.2.0.255) = \V040211
Active firmware identifier 2 (1-2:0.2.0.255) = \V000011

```

```

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

```

```

PASSED                270
FAILED                 0
DISABLED               0

```

INAPPLICABLE	3	
INCONCLUSIVE	0	
FATAL	0	
TOTAL	273	

Test Case 1 : Connect and release, 4 item(s)		

(1) Connect Public		PASSED
(2) Release Public		PASSED
(3) Connect Management		PASSED
(4) Release Management		PASSED

Test Case 2 : Read Device IDs, 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="\194195" />		
</Data>		
Mngmt Get Device ID 2 0-0:96.1.1.255 (@50)		
(3) .logical_name		PASSED
<Data>		
<OctetString Value="0000600101FF" />		
</Data>		
(4) .value		PASSED
<Data>		
<OctetString Value="\M&C" />		
</Data>		
Mngmt Get Device ID 3 0-0:96.1.2.255 (@54)		
(5) .logical_name		PASSED
<Data>		
<OctetString Value="0000600102FF" />		
</Data>		
(6) .value		PASSED
<Data>		
<OctetString Value="\M&C" />		
</Data>		
Mngmt Get Device ID 4 0-0:96.1.3.255 (@58)		
(7) .logical_name		PASSED
<Data>		
<OctetString Value="0000600103FF" />		
</Data>		
(8) .value		PASSED
<Data>		
<OctetString Value="\M&C" />		
</Data>		
Mngmt Get Device ID 5 0-0:96.1.4.255 (@62)		
(9) .logical_name		PASSED
<Data>		
<OctetString Value="0000600104FF" />		
</Data>		
(10) .value		PASSED
<Data>		
<OctetString Value="\M&C" />		
</Data>		
Mngmt Get Device ID 6, IDIS certification number 0-0:96.1.5.255 (@66)		
(11) .logical_name		PASSED
<Data>		
<OctetString Value="0000600105FF" />		
</Data>		
(12) .value		PASSED

```

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

*****
Test Case 3 : 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="\MAC1020700194195" />
    </Data>

*****
Test Case 4 : 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="\MAC1020700194195" />
        </Structure>
      </Array>
    </Data>

*****
Test Case 5 : Read Active FW Version, 12 item(s)
*****

Mngmt Get Active firmware identifier 1-0:0.2.0.255 (@412)
(1) .logical_name PASSED
    <Data>
      <OctetString Value="0100000200FF" />
    </Data>
(2) .value PASSED
    <Data>
      <OctetString Value="\V010326" />
    </Data>

Mngmt Get Active firmware signature 1-0:0.2.8.255 (@416)
(3) .logical_name PASSED
    <Data>
      <OctetString Value="0100000208FF" />
    </Data>
(4) .value PASSED
    <Data>
      <OctetString Value="\59B56B7E" />
    </Data>

Mngmt Get Active firmware identifier 1 1-1:0.2.0.255 (@420)
(5) .logical_name PASSED
    <Data>
      <OctetString Value="0101000200FF" />
    </Data>
(6) .value PASSED
    <Data>
      <OctetString Value="\V040211" />
    </Data>

Mngmt Get Active firmware signature 1 1-1:0.2.8.255 (@424)
(7) .logical_name PASSED

```

```

    <Data>
      <OctetString Value="0101000208FF" />
    </Data>
(8) .value PASSED
    <Data>
      <OctetString Value="\1E494D6F" />
    </Data>

Mngmt Get Active firmware identifier 2 1-2:0.2.0.255 (@428)
(9) .logical_name PASSED
    <Data>
      <OctetString Value="0102000200FF" />
    </Data>
(10) .value PASSED
    <Data>
      <OctetString Value="\V000011" />
    </Data>

Mngmt Get Active firmware signature 2 1-2:0.2.8.255 (@432)
(11) .logical_name PASSED
    <Data>
      <OctetString Value="0102000208FF" />
    </Data>
(12) .value PASSED
    <Data>
      <OctetString Value="\DCA597C1" />
    </Data>

*****
Test Case 6 : Set Clock, 1 item(s)
*****

Pre Set Clock 0-0:1.0.0.255 (@75)
(1) .time PASSED
    <Data>
      <OctetString Value="07E50205FF0B0000FF8000FF" />
    </Data>

*****
Test Case 7 : Get Clock, 1 item(s)
*****

Mngmt Get Clock 0-0:1.0.0.255 (@75)
(1) .time PASSED
    <Data>
      <OctetString Value="07E50205050B000000FFC400" />
    </Data>

*****
Test Case 8 : Set Special Days, 1 item(s)
*****

Pre Set Special Days Table 0-0:11.0.0.255 (@125)
(1) .entries PASSED
    <Data>
      <Array Qty="001E" >
        <Structure Qty="0003" >
          <LongUnsigned Value="0001" />
          <OctetString Value="FFFF0101FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="0001" />
          <OctetString Value="FFFF0102FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="0001" />
          <OctetString Value="FFFF0103FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="0001" />

```

```

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

```

```

<Structure 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 9 : Get Special Days, 1 item(s)
*****

```

Mngmt Get Special Days Table 0-0:11.0.0.255 (@125)

(1) .entries

PASSED

```

<Data>
  <Array Qty="001E" >
    <Structure Qty="0003" >
      <LongUnsigned Value="0001" />

```



```

<OctetString Value="FFFF0101FF" />
<Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0102FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0103FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0104FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0105FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0106FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0107FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0108FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0109FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0201FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0202FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure 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 10 : Read Event Log Buffers, 20 item(s)
*****

Mngmt Get Disconnecter Control Log 0-0:99.98.2.255 (@193)
(1) .logical_name PASSED
    <Data>
        <OctetString Value="0000636202FF" />
    </Data>
(2) .buffer PASSED
    Earliest date: 05-FEB-2021 06:46:35, latest date: 05-FEB-2021 12:15:07
    Middle date: 05-FEB-2021 12:05:07
(3) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000E" />
    </Data>
(4) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000000B2" />
    </Data>

Mngmt Get Standard Event Log 0-0:99.98.0.255 (@301)
(5) .logical_name PASSED
    <Data>
        <OctetString Value="0000636200FF" />
    </Data>
(6) .buffer PASSED
    Earliest date: 05-FEB-2021 06:48:29, latest date: 05-FEB-2021 12:15:32
    Middle date: 05-FEB-2021 12:00:01
(7) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000033" />
    </Data>
(8) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000000E3" />
    </Data>

Mngmt Get Fraud Detection Log 0-0:99.98.1.255 (@316)
(9) .logical_name PASSED
    <Data>
        <OctetString Value="0000636201FF" />
    </Data>
(10) .buffer PASSED
    Earliest date: 05-FEB-2021 06:46:35, latest date: 05-FEB-2021 12:15:28
    Middle date: 05-FEB-2021 11:06:10
(11) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000024" />
    </Data>
(12) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000000E3" />
    </Data>

Mngmt Get Communication Log 0-0:99.98.5.255 (@331)
(13) .logical_name PASSED
    <Data>
        <OctetString Value="0000636205FF" />
    </Data>
(14) .buffer PASSED
    Earliest date: 05-FEB-2021 06:46:35, latest date: 05-FEB-2021 06:51:22
    Middle date: 05-FEB-2021 06:46:44
(15) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000009" />
    </Data>
(16) .profile_entries PASSED

```

```

    <Data>
      <DoubleLongUnsigned Value="000000E3" />
    </Data>

Mngmt Get Power Quality Log 0-0:99.98.4.255 (@1340)
(17) .logical_name PASSED
    <Data>
      <OctetString Value="0000636204FF" />
    </Data>
(18) .buffer PASSED
    Earliest date: 05-FEB-2021 06:48:40, latest date: 05-FEB-2021 06:50:39
    Middle date: 05-FEB-2021 06:49:37
(19) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000005" />
    </Data>
(20) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="000000E3" />
    </Data>

*****
Test Case 11 : Reading Data of Billing Period 1, 8 item(s)
*****

Mngmt Get Data of billing period 1 0-0:98.1.0.255 (@158)
(1) .logical_name PASSED
    <Data>
      <OctetString Value="0000620100FF" />
    </Data>
(2) .buffer PASSED
    Earliest date: 03-SEP-2020 06:46:00, latest date: 05-JAN-2021 06:46:00
    Middle date: 04-NOV-2020 06:46:00
(3) .capture_objects PASSED
    <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>
(4) .capture_period PASSED
    <Data>
      <DoubleLongUnsigned Value="00000000" />
    </Data>
(5) .sort_method PASSED

```

```

        <Data>
          <Enum Value="01" />
        </Data>
(6) .sort_object PASSED
      <Data>
        <Structure Qty="0004" >
          <LongUnsigned Value="0008" />
          <OctetString Value="0000010000FF" />
          <Integer Value="02" />
          <LongUnsigned Value="0000" />
        </Structure>
      </Data>
(7) .entries_in_use PASSED
      <Data>
        <DoubleLongUnsigned Value="00000005" />
      </Data>
(8) .profile_entries PASSED
      <Data>
        <DoubleLongUnsigned Value="00000051" />
      </Data>

*****
Test Case 12 : Ext. M - M-Bus Setup LGZ G350, 52 item(s)
*****

Mngmt Get M-Bus master port setup 1 0-0:24.6.0.255 (@1566)
(1) .logical_name PASSED
      <Data>
        <OctetString Value="0000180600FF" />
      </Data>
(2) .comm_speed PASSED
      <Data>
        <Enum Value="03" />
      </Data>

Mngmt Get M-Bus master port setup 2 0-1:24.6.0.255 (@1570)
(3) .logical_name
INAPPLICABLE
  Optional object is not implemented
(4) .comm_speed
INAPPLICABLE
  Optional object is not implemented

Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1574)
(5) .logical_name PASSED
      <Data>
        <OctetString Value="0001180100FF" />
      </Data>
(6) .mbus_port_reference PASSED
      <Data>
        <OctetString Value="0000180600FF" />
      </Data>
(7) .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>
(8) .capture_period PASSED
      <Data>
        <DoubleLongUnsigned Value="00000E10" />
      </Data>
(9) .primary_address PASSED
      <Data>
        <Unsigned Value="01" />
      </Data>

```

(10)	.identification_number	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00047BB1" />	
	</Data>	
(11)	.manufacturer_id	PASSED
	<Data>	
	<LongUnsigned Value="19AC" />	
	</Data>	
(12)	.version	PASSED
	<Data>	
	<Unsigned Value="02" />	
	</Data>	
(13)	.device_type	PASSED
	<Data>	
	<Unsigned Value="03" />	
	</Data>	
(14)	.access_number	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(15)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(16)	.alarm	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
Mngmt Get M-Bus client channel 2 0-2:24.1.0.255 (@1596)		
(17)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0002180100FF" />	
	</Data>	
(18)	.mbus_port_reference	PASSED
	<Data>	
	<OctetString Value="0000180600FF" />	
	</Data>	
(19)	.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>	
(20)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000E10" />	
	</Data>	
(21)	.primary_address	PASSED
	<Data>	
	<Unsigned Value="02" />	
	</Data>	
(22)	.identification_number	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00047BB2" />	
	</Data>	
(23)	.manufacturer_id	PASSED
	<Data>	
	<LongUnsigned Value="19AC" />	
	</Data>	
(24)	.version	PASSED
	<Data>	
	<Unsigned Value="02" />	
	</Data>	
(25)	.device_type	PASSED
	<Data>	

	<Unsigned Value="03" /> </Data>	
(26)	.access_number <Data> <Unsigned Value="FC" /> </Data>	PASSED
(27)	.status <Data> <Unsigned Value="00" /> </Data>	PASSED
(28)	.alarm <Data> <Unsigned Value="00" /> </Data>	PASSED
Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1618)		
(29)	.logical_name <Data> <OctetString Value="0003180100FF" /> </Data>	PASSED
(30)	.mbus_port_reference <Data> <OctetString Value="0000180600FF" /> </Data>	PASSED
(31)	.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
(32)	.capture_period <Data> <DoubleLongUnsigned Value="00000E10" /> </Data>	PASSED
(33)	.primary_address <Data> <Unsigned Value="03" /> </Data>	PASSED
(34)	.identification_number <Data> <DoubleLongUnsigned Value="00047BB4" /> </Data>	PASSED
(35)	.manufacturer_id <Data> <LongUnsigned Value="19AC" /> </Data>	PASSED
(36)	.version <Data> <Unsigned Value="02" /> </Data>	PASSED
(37)	.device_type <Data> <Unsigned Value="03" /> </Data>	PASSED
(38)	.access_number <Data> <Unsigned Value="ED" /> </Data>	PASSED
(39)	.status <Data> <Unsigned Value="00" /> </Data>	PASSED
(40)	.alarm <Data> <Unsigned Value="00" /> </Data>	PASSED

```

Mngmt Get M-Bus client channel 4 0-4:24.1.0.255 (@1640)
(41) .logical_name PASSED
    <Data>
      <OctetString Value="0004180100FF" />
    </Data>
(42) .mbus_port_reference PASSED
    <Data>
      <OctetString Value="0000180600FF" />
    </Data>
(43) .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>
(44) .capture_period PASSED
    <Data>
      <DoubleLongUnsigned Value="00000E10" />
    </Data>
(45) .primary_address PASSED
    <Data>
      <Unsigned Value="04" />
    </Data>
(46) .identification_number PASSED
    <Data>
      <DoubleLongUnsigned Value="00047BB3" />
    </Data>
(47) .manufacturer_id PASSED
    <Data>
      <LongUnsigned Value="19AC" />
    </Data>
(48) .version PASSED
    <Data>
      <Unsigned Value="02" />
    </Data>
(49) .device_type PASSED
    <Data>
      <Unsigned Value="03" />
    </Data>
(50) .access_number PASSED
    <Data>
      <Unsigned Value="1F" />
    </Data>
(51) .status PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>
(52) .alarm PASSED
    <Data>
      <Unsigned Value="00" />
    </Data>

```

```

*****
Test Case 13 : Ext. M - M-Bus Results uncorrected Vol. & valve, 40 item(s)
*****

```

```

Mngmt Get M-Bus Value channel 1, instance 1 0-1:24.2.1.255 (@1662)
(1) .logical_name PASSED
    <Data>
      <OctetString Value="0001180201FF" />
    </Data>
(2) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="00000F3D" />
    </Data>

```


(3) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> </pre>	
(4) .status	PASSED
<pre> <Data> <Unsigned Value="00" /> </Data> </pre>	
(5) .capture_time	PASSED
<pre> <Data> <OctetString Value="07E5020505093B2900800000" /> </Data> </pre>	
Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1670)	
(6) .logical_name	PASSED
<pre> <Data> <OctetString Value="0001180202FF" /> </Data> </pre>	
(7) .value	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000001" /> </Data> </pre>	
(8) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data> </pre>	
(9) .status	PASSED
<pre> <Data> <Unsigned Value="00" /> </Data> </pre>	
(10) .capture_time	PASSED
<pre> <Data> <OctetString Value="07E5020505093B2900800000" /> </Data> </pre>	
Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1694)	
(11) .logical_name	PASSED
<pre> <Data> <OctetString Value="0002180201FF" /> </Data> </pre>	
(12) .value	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000B39" /> </Data> </pre>	
(13) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> </pre>	
(14) .status	PASSED
<pre> <Data> <Unsigned Value="00" /> </Data> </pre>	
(15) .capture_time	PASSED
<pre> <Data> <OctetString Value="07E5020505093B2E00800000" /> </Data> </pre>	
Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1702)	
(16) .logical_name	PASSED
<pre> <Data> <OctetString Value="0002180202FF" /> </Data> </pre>	
(17) .value	PASSED
<pre> <Data> </pre>	

	<DoubleLongUnsigned Value="00000001" />	
	</Data>	
(18)	.scaler_unit	PASSED
	<Data>	
	<Structure Qty="0002" >	
	<Integer Value="00" />	
	<Enum Value="FF" />	
	</Structure>	
	</Data>	
(19)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(20)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E5020505093B2E00800000" />	
	</Data>	
	Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1726)	
(21)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0003180201FF" />	
	</Data>	
(22)	.value	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000E2F" />	
	</Data>	
(23)	.scaler_unit	PASSED
	<Data>	
	<Structure Qty="0002" >	
	<Integer Value="FD" />	
	<Enum Value="0D" />	
	</Structure>	
	</Data>	
(24)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(25)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E5020505093B3300800000" />	
	</Data>	
	Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1734)	
(26)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0003180202FF" />	
	</Data>	
(27)	.value	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000001" />	
	</Data>	
(28)	.scaler_unit	PASSED
	<Data>	
	<Structure Qty="0002" >	
	<Integer Value="00" />	
	<Enum Value="FF" />	
	</Structure>	
	</Data>	
(29)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(30)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E5020505093B3300800000" />	
	</Data>	
	Mngmt Get M-Bus Value channel 4, instance 1 0-4:24.2.1.255 (@1758)	
(31)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0004180201FF" />	
	</Data>	

(32) .value	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000A7D" /> </Data> </pre>	
(33) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> </pre>	
(34) .status	PASSED
<pre> <Data> <Unsigned Value="00" /> </Data> </pre>	
(35) .capture_time	PASSED
<pre> <Data> <OctetString Value="07E5020505093B3800800000" /> </Data> </pre>	
Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1766)	
(36) .logical_name	PASSED
<pre> <Data> <OctetString Value="0004180202FF" /> </Data> </pre>	
(37) .value	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000001" /> </Data> </pre>	
(38) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data> </pre>	
(39) .status	PASSED
<pre> <Data> <Unsigned Value="00" /> </Data> </pre>	
(40) .capture_time	PASSED
<pre> <Data> <OctetString Value="07E5020505093B3800800000" /> </Data> </pre>	
<pre> ***** Test Case 14 : Ext. M - M-Bus Device IDs, 16 item(s) ***** </pre>	
Mngmt Get M-Bus Device ID 1 channel 1 0-1:96.1.0.255 (@1790)	
(1) .logical_name	PASSED
<pre> <Data> <OctetString Value="0001600100FF" /> </Data> </pre>	
(2) .value	PASSED
<pre> <Data> <OctetString Value="\00000540029380911" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1794)	
(3) .logical_name	PASSED
<pre> <Data> <OctetString Value="0002600100FF" /> </Data> </pre>	
(4) .value	PASSED
<pre> <Data> <OctetString Value="\00000540029381011" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1798)	
(5) .logical_name	PASSED
<pre> <Data> <OctetString Value="0003600100FF" /> </Data> </pre>	

<pre> </Data> (6) .value <Data> <OctetString Value="\00000540029381211" /> </Data> Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1802) (7) .logical_name <Data> <OctetString Value="0004600100FF" /> </Data> (8) .value <Data> <OctetString Value="\00000540029381111" /> </Data> Mngmt Get M-Bus Device ID 2 channel 1 0-1:96.1.1.255 (@1806) (9) .logical_name <Data> <OctetString Value="0001600101FF" /> </Data> (10) .value <Data> <OctetString Value="" /> </Data> Mngmt Get M-Bus Device ID 2 channel 2 0-2:96.1.1.255 (@1810) (11) .logical_name <Data> <OctetString Value="0002600101FF" /> </Data> (12) .value <Data> <OctetString Value="" /> </Data> Mngmt Get M-Bus Device ID 2 channel 3 0-3:96.1.1.255 (@1814) (13) .logical_name <Data> <OctetString Value="0003600101FF" /> </Data> (14) .value <Data> <OctetString Value="" /> </Data> Mngmt Get M-Bus Device ID 2 channel 4 0-4:96.1.1.255 (@1818) (15) .logical_name <Data> <OctetString Value="0004600101FF" /> </Data> (16) .value <Data> <OctetString Value="" /> </Data> </pre>	<p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p>	
<pre> ***** Test Case 15 : Ext. M - M-Bus Load Profiles, 32 item(s) ***** Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1838) (1) .logical_name <Data> <OctetString Value="0001180300FF" /> </Data> (2) .buffer Earliest date: 05-FEB-2021 02:00:00, latest date: 05-FEB-2021 10:00:00 Middle date: 05-FEB-2021 06:00:00 (3) .capture_objects <Data> <Array Qty="0006" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> </pre>		<p>PASSED</p> <p>PASSED</p> <p>PASSED</p>

```

    <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>
(4) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(5) .sort_method PASSED
  <Data>
    <Enum Value="04" />
  </Data>
(6) .sort_object PASSED
  <Data>
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Data>
(7) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000009" />
  </Data>
(8) .profile_entries PASSED
  <Data>
    <DoubleLongUnsigned Value="0000012C" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1849)
(9) .logical_name PASSED
  <Data>
    <OctetString Value="0002180300FF" />
  </Data>
(10) .buffer PASSED
  Earliest date: 05-FEB-2021 02:00:00, latest date: 05-FEB-2021 10:00:00
  Middle date: 05-FEB-2021 06:00:00
(11) .capture_objects PASSED
  <Data>
    <Array Qty="0006" >

```

```

    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0001" />
      <OctetString Value="0002600A03FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0002180201FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0002180202FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0002180203FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0002180204FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Array>
</Data>
(12) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(13) .sort_method PASSED
  <Data>
    <Enum Value="04" />
  </Data>
(14) .sort_object PASSED
  <Data>
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Data>
(15) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000009" />
  </Data>
(16) .profile_entries PASSED
  <Data>
    <DoubleLongUnsigned Value="0000012C" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 3 0-3:24.3.0.255 (@1860)
(17) .logical_name PASSED
  <Data>
    <OctetString Value="0003180300FF" />
  </Data>
(18) .buffer PASSED
  Earliest date: 05-FEB-2021 02:00:00, latest date: 05-FEB-2021 10:00:00
  Middle date: 05-FEB-2021 06:00:00
(19) .capture_objects PASSED

```

```

<Data>
  <Array Qty="0006" >
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0001" />
      <OctetString Value="0003600A03FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180201FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180202FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180203FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
      <LongUnsigned Value="0004" />
      <OctetString Value="0003180204FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Array>
</Data>
(20) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(21) .sort_method PASSED
  <Data>
    <Enum Value="04" />
  </Data>
(22) .sort_object PASSED
  <Data>
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Data>
(23) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000009" />
  </Data>
(24) .profile_entries PASSED
  <Data>
    <DoubleLongUnsigned Value="0000012C" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1871)
(25) .logical_name PASSED
  <Data>
    <OctetString Value="0004180300FF" />
  </Data>
(26) .buffer PASSED
    Earliest date: 05-FEB-2021 02:00:00, latest date: 05-FEB-2021 10:00:00

```

```

Middle date: 05-FEB-2021 06:00:00
(27) .capture_objects PASSED
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0004600A03FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180202FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180203FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180204FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
(28) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(29) .sort_method PASSED
  <Data>
    <Enum Value="04" />
  </Data>
(30) .sort_object PASSED
  <Data>
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
      <Integer Value="02" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Data>
(31) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="00000009" />
  </Data>
(32) .profile_entries PASSED
  <Data>
    <DoubleLongUnsigned Value="0000012C" />
  </Data>

*****
Test Case 16 : Ext. M - M-Bus Control Logs, 40 item(s)
*****

Mngmt Get M-Bus Master Control log object 1 0-1:24.5.0.255 (@1941)

```


(1) .logical_name	PASSED
<pre> <Data> <OctetString Value="0001180500FF" /> </Data> </pre>	
(2) .buffer	PASSED
<pre> Earliest date: 05-FEB-2021 06:46:35, latest date: 05-FEB-2021 06:46:45 Middle date: 05-FEB-2021 06:46:43 </pre>	
(3) .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="0001600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data> </pre>	
(4) .capture_period	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000000" /> </Data> </pre>	
(5) .sort_method	PASSED
<pre> <Data> <Enum Value="01" /> </Data> </pre>	
(6) .sort_object	PASSED
<pre> <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data> </pre>	
(7) .entries_in_use	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000006" /> </Data> </pre>	
(8) .profile_entries	PASSED
<pre> <Data> <DoubleLongUnsigned Value="000000E3" /> </Data> </pre>	
Mngmt Get M-Bus Master Control log object 2 0-2:24.5.0.255 (@1952)	
(9) .logical_name	PASSED
<pre> <Data> <OctetString Value="0002180500FF" /> </Data> </pre>	
(10) .buffer	PASSED
<pre> Earliest date: 05-FEB-2021 06:46:35, latest date: 05-FEB-2021 06:46:45 Middle date: 05-FEB-2021 06:46:43 </pre>	
(11) .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="0002600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data> </pre>	

	</Array>	
	</Data>	
(12)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000000" />	
	</Data>	
(13)	.sort_method	PASSED
	<Data>	
	<Enum Value="01" />	
	</Data>	
(14)	.sort_object	PASSED
	<Data>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0008" />	
	<OctetString Value="0000010000FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	</Data>	
(15)	.entries_in_use	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000006" />	
	</Data>	
(16)	.profile_entries	PASSED
	<Data>	
	<DoubleLongUnsigned Value="000000E3" />	
	</Data>	
	Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1963)	
(17)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0003180500FF" />	
	</Data>	
(18)	.buffer	PASSED
	Earliest date: 05-FEB-2021 06:46:35, latest date: 05-FEB-2021 06:46:45	
	Middle date: 05-FEB-2021 06:46:43	
(19)	.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>	
(20)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000000" />	
	</Data>	
(21)	.sort_method	PASSED
	<Data>	
	<Enum Value="01" />	
	</Data>	
(22)	.sort_object	PASSED
	<Data>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0008" />	
	<OctetString Value="0000010000FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	</Data>	
(23)	.entries_in_use	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000006" />	

<code></Data></code>		
(24)	<code>.profile_entries</code>	PASSED
	<code><Data></code>	
	<code><DoubleLongUnsigned Value="000000E3" /></code>	
	<code></Data></code>	
Mngmt Get M-Bus Master Control log object 4 0-4:24.5.0.255 (@1974)		
(25)	<code>.logical_name</code>	PASSED
	<code><Data></code>	
	<code><OctetString Value="0004180500FF" /></code>	
	<code></Data></code>	
(26)	<code>.buffer</code>	PASSED
	<code>Earliest date: 05-FEB-2021 06:46:35, latest date: 05-FEB-2021 06:46:45</code>	
	<code>Middle date: 05-FEB-2021 06:46:43</code>	
(27)	<code>.capture_objects</code>	PASSED
	<code><Data></code>	
	<code><Array Qty="0002" ></code>	
	<code><Structure Qty="0004" ></code>	
	<code><LongUnsigned Value="0008" /></code>	
	<code><OctetString Value="0000010000FF" /></code>	
	<code><Integer Value="02" /></code>	
	<code><LongUnsigned Value="0000" /></code>	
	<code></Structure></code>	
	<code><Structure Qty="0004" ></code>	
	<code><LongUnsigned Value="0001" /></code>	
	<code><OctetString Value="0004600B04FF" /></code>	
	<code><Integer Value="02" /></code>	
	<code><LongUnsigned Value="0000" /></code>	
	<code></Structure></code>	
	<code></Array></code>	
	<code></Data></code>	
(28)	<code>.capture_period</code>	PASSED
	<code><Data></code>	
	<code><DoubleLongUnsigned Value="00000000" /></code>	
	<code></Data></code>	
(29)	<code>.sort_method</code>	PASSED
	<code><Data></code>	
	<code><Enum Value="01" /></code>	
	<code></Data></code>	
(30)	<code>.sort_object</code>	PASSED
	<code><Data></code>	
	<code><Structure Qty="0004" ></code>	
	<code><LongUnsigned Value="0008" /></code>	
	<code><OctetString Value="0000010000FF" /></code>	
	<code><Integer Value="02" /></code>	
	<code><LongUnsigned Value="0000" /></code>	
	<code></Structure></code>	
	<code></Data></code>	
(31)	<code>.entries_in_use</code>	PASSED
	<code><Data></code>	
	<code><DoubleLongUnsigned Value="00000006" /></code>	
	<code></Data></code>	
(32)	<code>.profile_entries</code>	PASSED
	<code><Data></code>	
	<code><DoubleLongUnsigned Value="000000E3" /></code>	
	<code></Data></code>	
Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1989)		
(33)	<code>.logical_name</code>	PASSED
	<code><Data></code>	
	<code><OctetString Value="0000636203FF" /></code>	
	<code></Data></code>	
(34)	<code>.buffer</code>	PASSED
	<code>Earliest date: 05-FEB-2021 06:46:35, latest date: 05-FEB-2021 06:53:01</code>	
	<code>Middle date: 05-FEB-2021 06:46:45</code>	
(35)	<code>.capture_objects</code>	PASSED
	<code><Data></code>	
	<code><Array Qty="0002" ></code>	
	<code><Structure Qty="0004" ></code>	
	<code><LongUnsigned Value="0008" /></code>	
	<code><OctetString Value="0000010000FF" /></code>	
	<code><Integer Value="02" /></code>	
	<code><LongUnsigned Value="0000" /></code>	

```

        </Structure>
        <Structure Qty="0004" >
            <LongUnsigned Value="0001" />
            <OctetString Value="0000600B03FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Array>
</Data>
(36) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000000" />
    </Data>
(37) .sort_method PASSED
    <Data>
        <Enum Value="01" />
    </Data>
(38) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0008" />
            <OctetString Value="0000010000FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(39) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000A" />
    </Data>
(40) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000000E3" />
    </Data>

*****
Test Case 17 : Ext. M - M-Bus Disconnect, 22 item(s)
*****

Mngmt Get M-Bus Master Disconnect control object 1 0-1:24.4.0.255 (@1882)
(1) .logical_name PASSED
    <Data>
        <OctetString Value="0001180400FF" />
    </Data>
(2) .output_state PASSED
    <Data>
        <Boolean Value="01" />
    </Data>
(3) .control_state PASSED
    <Data>
        <Enum Value="01" />
    </Data>
(4) .control_mode PASSED
    <Data>
        <Enum Value="06" />
    </Data>

Mngmt Get M-Bus Master Disconnect control object 2 0-2:24.4.0.255 (@1890)
(5) .logical_name PASSED
    <Data>
        <OctetString Value="0002180400FF" />
    </Data>
(6) .output_state PASSED
    <Data>
        <Boolean Value="01" />
    </Data>
(7) .control_state PASSED
    <Data>
        <Enum Value="01" />
    </Data>
(8) .control_mode PASSED
    <Data>
        <Enum Value="06" />
    </Data>

```

</Data>		
Mngmt Get M-Bus Master Disconnect control object 3 0-3:24.4.0.255 (@1898)		
(9) .logical_name		PASSED
<Data>		
<OctetString Value="0003180400FF" />		
</Data>		
(10) .output_state		PASSED
<Data>		
<Boolean Value="01" />		
</Data>		
(11) .control_state		PASSED
<Data>		
<Enum Value="01" />		
</Data>		
(12) .control_mode		PASSED
<Data>		
<Enum Value="06" />		
</Data>		
Mngmt Get M-Bus Master Disconnect control object 4 0-4:24.4.0.255 (@1906)		
(13) .logical_name		PASSED
<Data>		
<OctetString Value="0004180400FF" />		
</Data>		
(14) .output_state		PASSED
<Data>		
<Boolean Value="01" />		
</Data>		
(15) .control_state		PASSED
<Data>		
<Enum Value="01" />		
</Data>		
(16) .control_mode		PASSED
<Data>		
<Enum Value="06" />		
</Data>		
Mngmt Get M-Bus Disconnect control scheduler 0-1:15.0.1.255 (@1914)		
(17) .logical_name		PASSED
<Data>		
<OctetString Value="00010F0001FF" />		
</Data>		
(18) .executed_script		PASSED
<Data>		
<Structure Qty="0002" >		
<OctetString Value="00010A006AFF" />		
<LongUnsigned Value="0001" />		
</Structure>		
</Data>		
(19) .type		PASSED
<Data>		
<Enum Value="01" />		
</Data>		
(20) .execution_time		PASSED
<Data>		
<Array Qty="0001" >		
<Structure Qty="0002" >		
<OctetString Value="FFFFFFFF" />		
<OctetString Value="FFFFFFFF" />		
</Structure>		
</Array>		
</Data>		
Mngmt Get M-Bus Disconnect script table 0-1:10.0.106.255 (@1920)		
(21) .logical_name		PASSED
<Data>		
<OctetString Value="00010A006AFF" />		
</Data>		
(22) .scripts		PASSED
<Data>		
<Array Qty="0010" >		
<Structure Qty="0002" >		

```

<LongUnsigned Value="0001" />
<Array Qty="0001" >
  <Structure Qty="0005" >
    <Enum Value="01" />
    <LongUnsigned Value="0046" />
    <OctetString Value="0001180400FF" />
    <Integer Value="03" />
    <Enum Value="02" />
  </Structure>
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  <LongUnsigned Value="0002" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
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      <LongUnsigned Value="0046" />
      <OctetString Value="0001180400FF" />
      <Integer Value="03" />
      <Enum Value="01" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0003" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
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      <LongUnsigned Value="0046" />
      <OctetString Value="0002180400FF" />
      <Integer Value="03" />
      <Enum Value="02" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0004" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
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      <LongUnsigned Value="0046" />
      <OctetString Value="0002180400FF" />
      <Integer Value="03" />
      <Enum Value="01" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0005" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
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      <OctetString Value="0003180400FF" />
      <Integer Value="03" />
      <Enum Value="02" />
    </Structure>
  </Array>
</Structure>
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  <LongUnsigned Value="0006" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
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      <LongUnsigned Value="0046" />
      <OctetString Value="0003180400FF" />
      <Integer Value="03" />
      <Enum Value="01" />
    </Structure>
  </Array>
</Structure>
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  <LongUnsigned Value="0007" />

```

```

<Array Qty="0001" >
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    <LongUnsigned Value="0046" />
    <OctetString Value="0004180400FF" />
    <Integer Value="03" />
    <Enum Value="02" />
  </Structure>
</Array>
</Structure>
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  <LongUnsigned Value="0008" />
  <Array Qty="0001" >
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      <Enum Value="01" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0004180400FF" />
      <Integer Value="03" />
      <Enum Value="01" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0009" />
  <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="000A" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
      <Enum Value="02" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0001180400FF" />
      <Integer Value="02" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
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  <LongUnsigned Value="000B" />
  <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="000C" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
      <Enum Value="02" />
      <LongUnsigned Value="0046" />
      <OctetString Value="0002180400FF" />
      <Integer Value="02" />
      <Integer Value="00" />
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  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="000D" />
  <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="000E" />
  <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" >
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  <Array Qty="0001" >
    <Structure Qty="0005" >
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      <LongUnsigned Value="0046" />
      <OctetString Value="0004180400FF" />
      <Integer Value="01" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
<Structure Qty="0002" >
  <LongUnsigned Value="0010" />
  <Array Qty="0001" >
    <Structure Qty="0005" >
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      <LongUnsigned Value="0046" />
      <OctetString Value="0004180400FF" />
      <Integer Value="02" />
      <Integer Value="00" />
    </Structure>
  </Array>
</Structure>
</Array>
</_Data>

```

 Test Case 18 : FIT Push, 3 item(s)

- (1) Push on installation PASSED
- (2) Push on alarm PASSED
- (3) Push on power down

INAPPLICABLE
 Push setup on power down not available

 Test Case 19 : FIT Miscellaneous, 4 item(s)

- (1) Disconnector Script Table PASSED
- (2) Load profile with period 1 DST ambiguity PASSED
- (3) Load profile power down withing one period PASSED
- (4) Load profile power down over two periods PASSED

 * CTI *

//*****
 // * CTI Inhemeter GPRS *
 //*****


```

// Conformance Test Information (CTI) Template
// 2.3

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

DeviceUnderTest = {
  Type = '\SM401D'
  IDISDeviceType = 102
  IDISFunctionType = [Extension_D,Extension_L,Extension_M]
  SerialNr = 00194195
  IPVersion = IPv6
  DataLinkLayer = G3
  EUI64Address = "020000FFFE02F693"
  ConsumerInformationPush = TRUE
  SMSSupported = FALSE
  ClipCallSupported = FALSE
}

TestOptions = {
  PushDestination = '\[fe80:0:0:0:781d:ff:fe00:0]:61616'
}

ObjectModel = {
  // Optional objects implemented
  OptionalObjects = '\
    + '1-0:0.9.1.255|1,' // Local Time (@86)
    + '1-0:0.9.2.255|1,' // Local Date (@90)
    + '0-2:96.3.10.255|70,' // Load Mgmt - Relay control 2 (@217)
    + '1-1:0.2.0.255|1,' // Active firmware identifier 1 (@420)
    + '1-1:0.2.8.255|1,' // Active firmware signature 1 (@424)
    + '1-2:0.2.0.255|1,' // Active firmware identifier 2 (@428)
    + '1-2:0.2.8.255|1,' // Active firmware signature 2 (@432)
    + '1-0:9.8.0.255|3,' // Apparent energy import (+VA) (QI+QIV) (@497)
    + '1-0:10.8.0.255|3,' // Apparent energy export (-VA) (QII+QIII) (@503)
    + '1-0:5.8.1.255|3,' // Reactive energy (QI) rate 1 (@606)
    + '1-0:5.8.2.255|3,' // Reactive energy (QI) rate 2 (@612)
    + '1-0:5.8.3.255|3,' // Reactive energy (QI) rate 3 (@618)
    + '1-0:5.8.4.255|3,' // Reactive energy (QI) rate 4 (@624)
    + '1-0:6.8.1.255|3,' // Reactive energy (QII) rate 1 (@630)
    + '1-0:6.8.2.255|3,' // Reactive energy (QII) rate 2 (@636)
    + '1-0:6.8.3.255|3,' // Reactive energy (QII) rate 3 (@642)
    + '1-0:6.8.4.255|3,' // Reactive energy (QII) rate 4 (@648)
    + '1-0:7.8.1.255|3,' // Reactive energy (QIII) rate 1 (@654)
    + '1-0:7.8.2.255|3,' // Reactive energy (QIII) rate 2 (@660)
    + '1-0:7.8.3.255|3,' // Reactive energy (QIII) rate 3 (@666)
    + '1-0:7.8.4.255|3,' // Reactive energy (QIII) rate 4 (@672)
    + '1-0:8.8.1.255|3,' // Reactive energy (QIV) rate 1 (@678)
    + '1-0:8.8.2.255|3,' // Reactive energy (QIV) rate 2 (@684)
    + '1-0:8.8.3.255|3,' // Reactive energy (QIV) rate 3 (@690)
    + '1-0:8.8.4.255|3,' // Reactive energy (QIV) rate 4 (@696)
    + '1-0:9.8.1.255|3,' // Apparent energy import (+VA) rate 1 (@702)
    + '1-0:9.8.2.255|3,' // Apparent energy import (+VA) rate 2 (@708)
    + '1-0:9.8.3.255|3,' // Apparent energy import (+VA) rate 3 (@714)
    + '1-0:9.8.4.255|3,' // Apparent energy import (+VA) rate 4 (@720)
    + '1-0:10.8.1.255|3,' // Apparent energy export (-VA) rate 1 (@726)
    + '1-0:10.8.2.255|3,' // Apparent energy export (-VA) rate 2 (@732)
    + '1-0:10.8.3.255|3,' // Apparent energy export (-VA) rate 3 (@738)
    + '1-0:10.8.4.255|3,' // Apparent energy export (-VA) rate 4 (@744)
    + '1-0:15.8.1.255|3,' // Active energy Combined total (|+A|+|-A|) rate 1 (@750)
    + '1-0:15.8.2.255|3,' // Active energy Combined total (|+A|+|-A|) rate 2 (@756)
    + '1-0:15.8.3.255|3,' // Active energy Combined total (|+A|+|-A|) rate 3 (@762)
    + '1-0:15.8.4.255|3,' // Active energy Combined total (|+A|+|-A|) rate 4 (@768)
    + '1-0:9.4.0.255|5,' // Demand Register 5 - Apparent energy import (+VA) (@827)
    + '1-0:10.4.0.255|5,' // Demand Register 6 - Apparent energy export (-VA) (@840)
    + '1-0:1.5.0.255|4,' // Last Average Demand Register 1 - Active energy import (+A) (@853)
    + '1-0:2.5.0.255|4,' // Last Average Demand Register 2 - Active energy export (-A)
    (@861)
    + '1-0:3.5.0.255|4,' // Last Average Demand Register 3 - Reactive energy import (+R)
    (@869)
  
```

```

+ '1-0:4.5.0.255|4,' // Last Average Demand Register 4 - Reactive energy export (-R)
(@877)
+ '1-0:9.5.0.255|4,' // Last Average Demand Register 5 - Apparent energy import (+VA)
(@885)
+ '1-0:10.5.0.255|4,' // Last Average Demand Register 6 - Apparent energy export (-VA)
(@893)
+ '1-0:9.6.0.255|4,' // Maximum Demand Register 21 - Apparent energy import (+VA) (@1061)
+ '1-0:9.6.1.255|4,' // Maximum Demand Register 22 - Apparent energy import (+VA) - rate
1 (@1069)
+ '1-0:9.6.2.255|4,' // Maximum Demand Register 23 - Apparent energy import (+VA) - rate
2 (@1077)
+ '1-0:9.6.3.255|4,' // Maximum Demand Register 24 - Apparent energy import (+VA) - rate
3 (@1085)
+ '1-0:9.6.4.255|4,' // Maximum Demand Register 25 - Apparent energy import (+VA) - rate
4 (@1093)
+ '1-0:10.6.0.255|4,' // Maximum Demand Register 26 - Apparent energy export (-VA)
(@1101)
+ '1-0:10.6.1.255|4,' // Maximum Demand Register 27 - Apparent energy export (-VA) - rate
1 (@1109)
+ '1-0:10.6.2.255|4,' // Maximum Demand Register 28 - Apparent energy export (-VA) - rate
2 (@1117)
+ '1-0:10.6.3.255|4,' // Maximum Demand Register 29 - Apparent energy export (-VA) - rate
3 (@1125)
+ '1-0:10.6.4.255|4,' // Maximum Demand Register 30 - Apparent energy export (-VA) - rate
4 (@1133)
+ '1-0:14.7.0.255|3,' // Instantaneous net frequency; any phase (@1450)
+ '1-0:9.7.0.255|3,' // Instantaneous apparent import power (+VA) (@1486)
+ '1-0:10.7.0.255|3,' // Instantaneous apparent export power (-VA) (@1492)
+ '1-0:13.7.0.255|3,' // Instantaneous Power factor (+A/+VA) (@1537)
+ '1-0:13.5.0.255|4,' // Last Average Power factor (+A/+VA) (@1543)
+ '1-0:13.3.0.255|4,' // Minimum Power factor (+A/+VA) (@1551)

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 (@112)
LogicalName = '0-0:13.0.0.255'
ClassId = 20
MethodExtraInfo = {
// activate_passive_calendar
MethodId = 1
AccessRights = [ACTION]
}
}

InstanceExtraInfo = {
// Register activation - Energy (@129)
LogicalName = '0-0:14.0.1.255'
ClassId = 6
AttributeExtraInfo = {
// register_assignment
AttributeId = 2
AccessRights = [GET,SET]
}
}

InstanceExtraInfo = {
// Register activation - Maximum Demand (@135)

```

```

LogicalName = '0-0:14.0.2.255'
ClassId = 6
AttributeExtraInfo = {
    // register_assignment
    AttributeId = 2
    AccessRights = [GET,SET]
}
}

InstanceExtraInfo = {
    // End of billing period 1 scheduler (@152)
    LogicalName = '0-0:15.0.0.255'
    ClassId = 22
    AttributeExtraInfo = {
        // type
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // Disconnect control scheduler (@170)
    LogicalName = '0-0:15.0.1.255'
    ClassId = 22
    AttributeExtraInfo = {
        // type
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // Load Mgmt - Relay control 1 (@209)
    LogicalName = '0-1:96.3.10.255'
    ClassId = 70
    AttributeExtraInfo = {
        // control_mode
        AttributeId = 4
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // Load Mgmt - Relay control 2 (@217)
    LogicalName = '0-2:96.3.10.255'
    ClassId = 70
    AttributeExtraInfo = {
        // control_mode
        AttributeId = 4
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // Push action scheduler - Consumer Information (@351)
    LogicalName = '0-4:15.0.4.255'
    ClassId = 22
    AttributeExtraInfo = {
        // type
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // Image transfer (@388)
    LogicalName = '0-0:44.0.0.255'
    ClassId = 18
    AttributeExtraInfo = {
        // image_block_size
        AttributeId = 2
        AccessRights = [GET,SET]
    }
}

```

```

}

InstanceExtraInfo = {
  // Image transfer activation scheduler (@401)
  LogicalName = '0-0:15.0.2.255'
  ClassId = 22
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Load profile with period 1 i.e. General Load Profile (@1146)
  LogicalName = '1-0:99.1.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    // profile_entries
    AttributeId = 8
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Load profile with period 2 i.e. Daily Values Profile (@1161)
  LogicalName = '1-0:99.2.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    // profile_entries
    AttributeId = 8
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // M-Bus Disconnect control scheduler (@1914)
  LogicalName = '0-1:15.0.1.255'
  ClassId = 22
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Push action scheduler - Interval_1 (@2144)
  LogicalName = '0-1:15.0.4.255'
  ClassId = 22
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Push action scheduler - Interval_2 (@2150)
  LogicalName = '0-2:15.0.4.255'
  ClassId = 22
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Push action scheduler - Interval_3 (@2156)
  LogicalName = '0-3:15.0.4.255'
  ClassId = 22
  AttributeExtraInfo = {

```

```

// type
AttributeId = 3
AccessRights = [GET,SET]
}
}

// needed for conformance test.
InstanceExtraInfo =
{
    LogicalName = '0-0:29.1.0.255'
    ClassId = 91
    Version = 1

    AttributeExtraInfo =
    {
        AttributeId = 5
        SetData = '\' +
            '<Data>' +
            ' <Array Qty = "01">' +
            '   <Structure Qty = "02">' +
            '     <Unsigned Value = "00" />' +
            '     <OctetString Value = "00112233445566778899AABBCCDDEEFF"/>' +
            '   </Structure>' +
            ' </Array>' +
            '</Data>'
        AccessRights = [SET]
    }
}

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

InstanceExtraInfo = {
    LogicalName = '0-0:1.0.0.255'
    ClassId = 8
    AttributeExtraInfo = {
        AttributeId = 2
        SetData = '\<Data><OctetString Value="07E50205FF0B0000FF8000FF" /></Data>' // yyyy mm
dd dow hh mm ss
    }
}

InstanceExtraInfo = {
// Set special days to 30 entries
LogicalName = '0-0:11.0.0.255'
ClassId = 11
    AttributeExtraInfo = {
        AttributeId = 2
        SetData = '\<Data>'
+         '<Array Qty="1E" >'
+         ' <Structure Qty="03" >'
+         '   <LongUnsigned Value="0001" />'
+         '   <OctetString Value="FFFF0101FF" />'
+         '   <Unsigned Value="02" />'
+         ' </Structure>'
+         ' <Structure Qty="03" >'
+         '   <LongUnsigned Value="0001" />'
+         '   <OctetString Value="FFFF0102FF" />'
+         '   <Unsigned Value="02" />'
+         ' </Structure>'
+         ' <Structure Qty="03" >'
+         '   <LongUnsigned Value="0001" />'
+         '   <OctetString Value="FFFF0103FF" />'
+         '   <Unsigned Value="02" />'
+         ' </Structure>'
+         ' <Structure Qty="03" >'

```

```

+'          <LongUnsigned Value="0001" />'
+'          <OctetString Value="FFFF0104FF" />'
+'          <Unsigned Value="02" />'
+'        </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0105FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned Value="0001" />'
+'      <OctetString Value="FFFF0106FF" />'
+'      <Unsigned Value="02" />'
+'    </Structure>'
+'  <Structure Qty="03" >'
+'    <LongUnsigned Value="0001" />'
+'    <OctetString Value="FFFF0107FF" />'
+'    <Unsigned Value="02" />'
+'  </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0108FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0109FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF010AFF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0201FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0202FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0203FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0204FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0205FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0206FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0207FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0208FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'

```

```

+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0209FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF020AFF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0301FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0302FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0303FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0304FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0305FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0306FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0307FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0308FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF0309FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF030AFF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'        </Array>'
+'      </Data>'
+'    }
+'  }

```

```

TestParameters = {
    ConnectDisconnectDelay = 12000
    ClientSystemTitle = '58585A0102030405'
}

```

```

ImageTransfer = {
    ImageIdentifier = '\MAC-SM401D-LNR-HW1.1-FW4.2.11'
    ImageFileName = '\MAC20210112.image'
    Timeout = 120000
}

PushTimeout = 60000
MinInterWPDUFramesDelay = 400
CaptureDelay = 30000
ClipCallDuration = 12000

AutoConnect = {
    Repetitions = 0
    RepetitionDelay = 0
}

PushSetup = {
    NumberOfRetries = 0
    RepetitionDelay = 0
}

WakeUpDelay = 30000
DisconnectToSendSMSDelay = 5000
DataNotificationToDisconnectDelay = 5000
}

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 = NO_SECURITY
        ServerMaxReceivePduSize = 1224
        CipheringStyle = GENERAL
    }
}

RemoteSecurityElements = {
    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
        ServerMaxReceivePduSize = 1224
        CipheringStyle = GENERAL
    }
}

SMSSecurityElements = {
    PreEstablished = {
        Policy = AUTHENTICATION_AND_ENCRYPTION
        ServerMaxReceivePDUSize = 138
        CipheringStyle = GENERAL
    }
}

```



```

}

HDLCPProfile = {

    PhysicalLayer = {
        OpeningMode = DIRECT_HDLC
        HdLcBaud = 9600
    }
    DataLinkLayer = {
        InactivityTimeout      = 50000
        InterFrameTimeout      = 50
        ResponseTimeout         = 5000
        DISCToNDMTimeout       = 120000
        AddressingSchemes       = [TWO_BYTES_ADDRESSING]
        ServerLowerMACAddress   = 0x11
        LastRecToNextSendDelay = 0
    }

    UIFrameDelay = 2000

    UIFrameLength = 126

}

TCPProfile = {
    ServerTCPPort = 4059
    ResponseTimeout = 10000
    ConnectTimeout = 30000
    DisconnectToConnectDelay = 15000
}

// Mandatory parameters of the ''Remote'' G3-PLC profile
G3PLCProfile = {
    FrequencyBand = CENELEC_A
    ResponseTimeout = 10000
    UDPPort = 61616
    ConnectTimeout = 10000
    PSK = "AB10341145111BC3C12DE8FF11142204"
}

// END CTI_Template

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

TestMode:                G3-PLC
Test Plan Signature:     BFC18D5882976F2087BC007B67CDC246
Object Model:            IDIS-S02-002 - object model Pack2 Ed2.0 - V2.29 (20200831)-FIT MBUS
Tests G350 (CorrectedAndValve status).xlsx
DUT system title:       4D4143667002F693
Run number:              1306

```