

# Final Interoperability Test Report

FIT #: **45**  
Date: 03/07/2020  
Location: DNV-GL, Arnhem, Netherlands  
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## APPLICANT

Company: Kaifa Technology

Address: No.1218 Hezuo Rd., Hi-Tech Development Zone (West), Chengdu, P.R.C.

DEVICE		
Device type	Polyphase MA309MH4LAT1	
Type indication on MID certificate	MID Certificate No.	
MA309MH4LAT1	1741-18	
IDIS Specification reference	DNV-gl IDIS Certification run No	Digital signature of the test report.
Package 2 ed. 2.0	418	BFC18D5882976F2087BC007B67CDC246
First certification	IDIS Label	Modular device
<input checked="" type="checkbox"/>	0055	<input type="checkbox"/>
General information about the device		

FIRMWARE VERSIONS TESTED				Final Interoperability Test No. 45
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	V096011	105202	115207	Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #45

Device: Ma309MH4LAT1

DNV-GL, Arnhem, Netherlands, 03/07/2020

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FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	V096011	105202	115207	V096011	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	
<b>FIT Conformance Test Report</b>		
<pre> ***** IDIS Conformance test report 03-JUL-2020 09:48:51 iCTT2 Package 2, Edition 2.0, Revision 1 (134) Licensed to: KEMA-IDIS Cert. Tester: Bas Roelofsen *****  ***** * Identification * *****  Manufacturer = {   Name = '\Shenzhen Kaifa Technology (Chengdu) Co. Ltd.'   ThreeLettersId = '\KFM' } DeviceUnderTest = {   Type = '\Ma309MH4LAT1'   IDISDeviceType = 103   IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M]   SerialNr = 50   IPVersion = IPV6   DataLinkLayer = G3   ConsumerInformationPush = FALSE   EUI64Address = '0080E1FFFE90879C' }  Active firmware identifier (1-0:0.2.0.255) = \105202 Active firmware identifier 1 (1-1:0.2.0.255) = \115207  ***** * Summary * *****  PASSED                266 FAILED                 0 DISABLED               0 INAPPLICABLE          7 INCONCLUSIVE           0 FATAL                  0 </pre>		

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="\1KFM0200000050" />		
</Data>		
Mngmt Get Device ID 2 0-0:96.1.1.255 (@50)		
(3) .logical_name		PASSED
<Data>		
<OctetString Value="0000600101FF" />		
</Data>		
(4) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		
Mngmt Get Device ID 3 0-0:96.1.2.255 (@54)		
(5) .logical_name		PASSED
<Data>		
<OctetString Value="0000600102FF" />		
</Data>		
(6) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		
Mngmt Get Device ID 4 0-0:96.1.3.255 (@58)		
(7) .logical_name		PASSED
<Data>		
<OctetString Value="0000600103FF" />		
</Data>		
(8) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		
Mngmt Get Device ID 5 0-0:96.1.4.255 (@62)		
(9) .logical_name		PASSED
<Data>		
<OctetString Value="0000600104FF" />		
</Data>		
(10) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		
Mngmt Get Device ID 6, IDIS certification number 0-0:96.1.5.255 (@66)		
(11) .logical_name		PASSED
<Data>		
<OctetString Value="0000600105FF" />		
</Data>		
(12) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		

```

*****
Test Case 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="\KFM1030700000050" />
    </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="\KFM1030700000050" />
        </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="\105202" />
    </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="CE8953362A9ED9D26F61FB76CCCB9F8CA2CAE16145E3E994790F1FB82D73B68301CABD64E0C1E5E9E59366
69662A177954740CDACEB9026F177759566D356DC2" />
    </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="\115207" />
    </Data>

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

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        <OctetString Value="0101000208FF" />
    </Data>
(8) .value PASSED
    <Data>
        <OctetString
Value="75B8D49332472286C27907D9463AD711A6C6DDC89DD03FF586FBE238C3A89B466D056A66EB0E70B6502914
8654F9A240CF083F5379D91242E91F3B6E7F9440B1" />
    </Data>

Mngmt Get Active firmware identifier 2 1-2:0.2.0.255 (@428)
(9) .logical_name
INAPPLICABLE
    Optional object is not implemented
(10) .value
INAPPLICABLE
    Optional object is not implemented

Mngmt Get Active firmware signature 2 1-2:0.2.8.255 (@432)
(11) .logical_name
INAPPLICABLE
    Optional object is not implemented
(12) .value
INAPPLICABLE
    Optional object is not implemented

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

Pre Set Clock 0-0:1.0.0.255 (@75)
(1) .time PASSED
    <Data>
        <OctetString Value="07E40703050A0000FF8000FF" />
    </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="07E40703050A000100FF8880" />
    </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>
        </Array>
    </Data>

```

```

<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>

```

```

    <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>

```

```

    <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="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>
</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: 03-JUL-2020 10:04:55, latest date: 07-JUL-2020 10:18:13
    Middle date: 06-JUL-2020 10:09:14
(3) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="00000006" />
    </Data>
(4) .profile_entries PASSED
    <Data>
    <DoubleLongUnsigned Value="0000000A" />
    </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: 03-JUL-2020 08:53:12, latest date: 07-JUL-2020 10:22:39
    Middle date: 04-JUL-2020 10:08:11
(7) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="0000001C" />
    </Data>
(8) .profile_entries PASSED
    <Data>
    <DoubleLongUnsigned Value="00000064" />
    </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: 03-JUL-2020 10:04:55, latest date: 07-JUL-2020 10:11:31
    Middle date: 04-JUL-2020 10:07:21
(11) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="00000007" />
    </Data>
(12) .profile_entries PASSED
    <Data>
    <DoubleLongUnsigned Value="0000001E" />
    </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: 03-JUL-2020 08:52:29, latest date: 07-JUL-2020 10:18:11
    Middle date: 04-JUL-2020 10:07:32
(15) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="0000001C" />
    </Data>
(16) .profile_entries PASSED
    <Data>
    <DoubleLongUnsigned Value="00000064" />
    </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: 01-JAN-2000 00:00:00, latest date: 01-JAN-2000 00:00:00
    Middle date: 01-JAN-2000 00:00:00
(19) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000005" />
    </Data>
(20) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="00000064" />
    </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-JUL-2020 10:04:55, latest date: 07-JUL-2020 10:11:31
    Middle date: 05-JUL-2020 10:08:19
(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
<pre> &lt;Data&gt;   &lt;Structure Qty="0004" &gt;     &lt;LongUnsigned Value="0000" /&gt;     &lt;OctetString Value="000000000000" /&gt;     &lt;Integer Value="00" /&gt;     &lt;LongUnsigned Value="0000" /&gt;   &lt;/Structure&gt; &lt;/Data&gt; </pre>	
(7) .entries_in_use	PASSED
<pre> &lt;Data&gt;   &lt;DoubleLongUnsigned Value="00000005" /&gt; &lt;/Data&gt; </pre>	
(8) .profile_entries	PASSED
<pre> &lt;Data&gt;   &lt;DoubleLongUnsigned Value="0000000F" /&gt; &lt;/Data&gt; </pre>	
<pre> ***** Test Case 12 : Ext. M - M-Bus Setup LGZ G350, 52 item(s) ***** </pre>	
<pre> Mngmt Get M-Bus master port setup 1 0-0:24.6.0.255 (@1566) </pre>	
(1) .logical_name	PASSED
<pre> &lt;Data&gt;   &lt;OctetString Value="0000180600FF" /&gt; &lt;/Data&gt; </pre>	
(2) .comm_speed	PASSED
<pre> &lt;Data&gt;   &lt;Enum Value="03" /&gt; &lt;/Data&gt; </pre>	
<pre> Mngmt Get M-Bus master port setup 2 0-1:24.6.0.255 (@1570) </pre>	
(3) .logical_name	INAPPLICABLE
<pre> Optional object is not implemented </pre>	
(4) .comm_speed	INAPPLICABLE
<pre> Optional object is not implemented </pre>	
<pre> Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1574) </pre>	
(5) .logical_name	PASSED
<pre> &lt;Data&gt;   &lt;OctetString Value="0001180100FF" /&gt; &lt;/Data&gt; </pre>	
(6) .mbus_port_reference	PASSED
<pre> &lt;Data&gt;   &lt;OctetString Value="0000180600FF" /&gt; &lt;/Data&gt; </pre>	
(7) .capture_definition	PASSED
<pre> &lt;Data&gt;   &lt;Array Qty="0002" &gt;     &lt;Structure Qty="0002" &gt;       &lt;OctetString Value="\L" /&gt;       &lt;OctetString Value="933A" /&gt;     &lt;/Structure&gt;     &lt;Structure Qty="0002" &gt;       &lt;OctetString Value="8940" /&gt;       &lt;OctetString Value="FD1A" /&gt;     &lt;/Structure&gt;   &lt;/Array&gt; &lt;/Data&gt; </pre>	
(8) .capture_period	PASSED
<pre> &lt;Data&gt;   &lt;DoubleLongUnsigned Value="00000E10" /&gt; &lt;/Data&gt; </pre>	
(9) .primary_address	PASSED
<pre> &lt;Data&gt;   &lt;Unsigned Value="01" /&gt; &lt;/Data&gt; </pre>	
(10) .identification_number	PASSED
<pre> &lt;Data&gt;   &lt;DoubleLongUnsigned Value="00293811" /&gt; </pre>	

	</Data>	
(11)	.manufacturer_id <Data> <LongUnsigned Value="19AC" /> </Data>	PASSED
(12)	.version <Data> <Unsigned Value="02" /> </Data>	PASSED
(13)	.device_type <Data> <Unsigned Value="03" /> </Data>	PASSED
(14)	.access_number <Data> <Unsigned Value="49" /> </Data>	PASSED
(15)	.status <Data> <Unsigned Value="00" /> </Data>	PASSED
(16)	.alarm <Data> <Unsigned Value="00" /> </Data>	PASSED
	Mngmt Get M-Bus client channel 2 0-2:24.1.0.255 (@1596)	
(17)	.logical_name <Data> <OctetString Value="0002180100FF" /> </Data>	PASSED
(18)	.mbus_port_reference <Data> <OctetString Value="0000180600FF" /> </Data>	PASSED
(19)	.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
(20)	.capture_period <Data> <DoubleLongUnsigned Value="00000E10" /> </Data>	PASSED
(21)	.primary_address <Data> <Unsigned Value="02" /> </Data>	PASSED
(22)	.identification_number <Data> <DoubleLongUnsigned Value="01293811" /> </Data>	PASSED
(23)	.manufacturer_id <Data> <LongUnsigned Value="19AC" /> </Data>	PASSED
(24)	.version <Data> <Unsigned Value="02" /> </Data>	PASSED
(25)	.device_type <Data> <Unsigned Value="03" /> </Data>	PASSED
(26)	.access_number	PASSED

	<Data> <Unsigned Value="37" /> </Data>	
(27)	.status	PASSED
	<Data> <Unsigned Value="00" /> </Data>	
(28)	.alarm	PASSED
	<Data> <Unsigned Value="00" /> </Data>	
Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1618)		
(29)	.logical_name	PASSED
	<Data> <OctetString Value="0003180100FF" /> </Data>	
(30)	.mbus_port_reference	PASSED
	<Data> <OctetString Value="0000180600FF" /> </Data>	
(31)	.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>	
(32)	.capture_period	PASSED
	<Data> <DoubleLongUnsigned Value="00000E10" /> </Data>	
(33)	.primary_address	PASSED
	<Data> <Unsigned Value="03" /> </Data>	
(34)	.identification_number	PASSED
	<Data> <DoubleLongUnsigned Value="02293811" /> </Data>	
(35)	.manufacturer_id	PASSED
	<Data> <LongUnsigned Value="19AC" /> </Data>	
(36)	.version	PASSED
	<Data> <Unsigned Value="02" /> </Data>	
(37)	.device_type	PASSED
	<Data> <Unsigned Value="03" /> </Data>	
(38)	.access_number	PASSED
	<Data> <Unsigned Value="34" /> </Data>	
(39)	.status	PASSED
	<Data> <Unsigned Value="00" /> </Data>	
(40)	.alarm	PASSED
	<Data> <Unsigned Value="00" /> </Data>	
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="03293811" />
    </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="67" />
    </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="00000A40" />
    </Data>
(3) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >

```



	<Integer Value="FD" />	
	<Enum Value="0D" />	
	</Structure>	
	</Data>	
(4)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(5)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E40703050A021600FF8880" />	
	</Data>	
Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1670)		
(6)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0001180202FF" />	
	</Data>	
(7)	.value	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000001" />	
	</Data>	
(8)	.scaler_unit	PASSED
	<Data>	
	<Structure Qty="0002" >	
	<Integer Value="00" />	
	<Enum Value="FF" />	
	</Structure>	
	</Data>	
(9)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(10)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E40703050A021B00FF8880" />	
	</Data>	
Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1694)		
(11)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0002180201FF" />	
	</Data>	
(12)	.value	PASSED
	<Data>	
	<DoubleLongUnsigned Value="0000083C" />	
	</Data>	
(13)	.scaler_unit	PASSED
	<Data>	
	<Structure Qty="0002" >	
	<Integer Value="FD" />	
	<Enum Value="0D" />	
	</Structure>	
	</Data>	
(14)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(15)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E40703050A022100FF8880" />	
	</Data>	
Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1702)		
(16)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0002180202FF" />	
	</Data>	
(17)	.value	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000001" />	
	</Data>	
(18)	.scaler_unit	PASSED

	<pre>           &lt;Data&gt;             &lt;Structure Qty="0002" &gt;               &lt;Integer Value="00" /&gt;               &lt;Enum Value="FF" /&gt;             &lt;/Structure&gt;           &lt;/Data&gt;         </pre>	
(19)	<pre>         .status           &lt;Data&gt;             &lt;Unsigned Value="00" /&gt;           &lt;/Data&gt;         </pre>	PASSED
(20)	<pre>         .capture_time           &lt;Data&gt;             &lt;OctetString Value="07E40703050A022600FF8880" /&gt;           &lt;/Data&gt;         </pre>	PASSED
	Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1726)	
(21)	<pre>         .logical_name           &lt;Data&gt;             &lt;OctetString Value="0003180201FF" /&gt;           &lt;/Data&gt;         </pre>	PASSED
(22)	<pre>         .value           &lt;Data&gt;             &lt;DoubleLongUnsigned Value="00000CA0" /&gt;           &lt;/Data&gt;         </pre>	PASSED
(23)	<pre>         .scaler_unit           &lt;Data&gt;             &lt;Structure Qty="0002" &gt;               &lt;Integer Value="FD" /&gt;               &lt;Enum Value="0D" /&gt;             &lt;/Structure&gt;           &lt;/Data&gt;         </pre>	PASSED
(24)	<pre>         .status           &lt;Data&gt;             &lt;Unsigned Value="00" /&gt;           &lt;/Data&gt;         </pre>	PASSED
(25)	<pre>         .capture_time           &lt;Data&gt;             &lt;OctetString Value="07E40703050A022B00FF8880" /&gt;           &lt;/Data&gt;         </pre>	PASSED
	Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1734)	
(26)	<pre>         .logical_name           &lt;Data&gt;             &lt;OctetString Value="0003180202FF" /&gt;           &lt;/Data&gt;         </pre>	PASSED
(27)	<pre>         .value           &lt;Data&gt;             &lt;DoubleLongUnsigned Value="00000001" /&gt;           &lt;/Data&gt;         </pre>	PASSED
(28)	<pre>         .scaler_unit           &lt;Data&gt;             &lt;Structure Qty="0002" &gt;               &lt;Integer Value="00" /&gt;               &lt;Enum Value="FF" /&gt;             &lt;/Structure&gt;           &lt;/Data&gt;         </pre>	PASSED
(29)	<pre>         .status           &lt;Data&gt;             &lt;Unsigned Value="00" /&gt;           &lt;/Data&gt;         </pre>	PASSED
(30)	<pre>         .capture_time           &lt;Data&gt;             &lt;OctetString Value="07E40703050A023000FF8880" /&gt;           &lt;/Data&gt;         </pre>	PASSED
	Mngmt Get M-Bus Value channel 4, instance 1 0-4:24.2.1.255 (@1758)	
(31)	<pre>         .logical_name           &lt;Data&gt;             &lt;OctetString Value="0004180201FF" /&gt;           &lt;/Data&gt;         </pre>	PASSED
(32)	<pre>         .value           &lt;Data&gt;             &lt;DoubleLongUnsigned Value="000006E0" /&gt;           &lt;/Data&gt;         </pre>	PASSED

	</Data>	
(33)	.scaler_unit <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data>	PASSED
(34)	.status <Data> <Unsigned Value="00" /> </Data>	PASSED
(35)	.capture_time <Data> <OctetString Value="07E40703050A023500FF8880" /> </Data>	PASSED
Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1766)		
(36)	.logical_name <Data> <OctetString Value="0004180202FF" /> </Data>	PASSED
(37)	.value <Data> <DoubleLongUnsigned Value="00000001" /> </Data>	PASSED
(38)	.scaler_unit <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data>	PASSED
(39)	.status <Data> <Unsigned Value="00" /> </Data>	PASSED
(40)	.capture_time <Data> <OctetString Value="07E40703050A023B00FF8880" /> </Data>	PASSED
***** Test Case 14 : Ext. M - M-Bus Device IDs, 16 item(s) *****		
Mngmt Get M-Bus Device ID 1 channel 1 0-1:96.1.0.255 (@1790)		
(1)	.logical_name <Data> <OctetString Value="0001600100FF" /> </Data>	PASSED
(2)	.value <Data> <OctetString Value="\1190839200450000" /> </Data>	PASSED
Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1794)		
(3)	.logical_name <Data> <OctetString Value="0002600100FF" /> </Data>	PASSED
(4)	.value <Data> <OctetString Value="\1101839200450000" /> </Data>	PASSED
Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1798)		
(5)	.logical_name <Data> <OctetString Value="0003600100FF" /> </Data>	PASSED
(6)	.value <Data>	PASSED

```

        <OctetString Value="\11218392004500000" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1802)
(7) .logical_name PASSED
    <Data>
        <OctetString Value="0004600100FF" />
    </Data>
(8) .value PASSED
    <Data>
        <OctetString Value="\11118392004500000" />
    </Data>

Mngmt Get M-Bus Device ID 2 channel 1 0-1:96.1.1.255 (@1806)
(9) .logical_name PASSED
    <Data>
        <OctetString Value="0001600101FF" />
    </Data>
(10) .value PASSED
    <Data>
        <OctetString Value="09382900AC190203" />
    </Data>

Mngmt Get M-Bus Device ID 2 channel 2 0-2:96.1.1.255 (@1810)
(11) .logical_name PASSED
    <Data>
        <OctetString Value="0002600101FF" />
    </Data>
(12) .value PASSED
    <Data>
        <OctetString Value="10382900AC190203" />
    </Data>

Mngmt Get M-Bus Device ID 2 channel 3 0-3:96.1.1.255 (@1814)
(13) .logical_name PASSED
    <Data>
        <OctetString Value="0003600101FF" />
    </Data>
(14) .value PASSED
    <Data>
        <OctetString Value="12382900AC190203" />
    </Data>

Mngmt Get M-Bus Device ID 2 channel 4 0-4:96.1.1.255 (@1818)
(15) .logical_name PASSED
    <Data>
        <OctetString Value="0004600101FF" />
    </Data>
(16) .value PASSED
    <Data>
        <OctetString Value="11382900AC190203" />
    </Data>

*****
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 PASSED
    <Data>
        <OctetString Value="0001180300FF" />
    </Data>
(2) .buffer PASSED
    Earliest date: 03-JUL-2020 10:00:00, latest date: 08-JUL-2020 06:00:00
    Middle date: 05-JUL-2020 11:00:00
(3) .capture_objects PASSED
    <Data>
        <Array Qty="0006" >
            <Structure Qty="0004" >
                <LongUnsigned Value="0008" />
                <OctetString Value="0000010000FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
        </Array>
    </Data>

```

```

        </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="0001180203FF" />
            <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="0001180201FF" />
            <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="01" />
    </Data>
(6) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0000" />
            <OctetString Value="000000000000" />
            <Integer Value="00" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(7) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000010" />
    </Data>
(8) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000000F0" />
    </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: 03-JUL-2020 10:04:55, latest date: 08-JUL-2020 06:00:00
    Middle date: 05-JUL-2020 11:00:00
(11) .capture_objects PASSED
    <Data>
        <Array Qty="0006" >
            <Structure Qty="0004" >
                <LongUnsigned Value="0008" />
                <OctetString Value="0000010000FF" />
            </Structure>
        </Array>
    </Data>

```

```

        <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="0002180203FF" />
        <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="0002180201FF" />
        <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="01" />
    </Data>
(14) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0000" />
            <OctetString Value="000000000000" />
            <Integer Value="00" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(15) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000F" />
    </Data>
(16) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000000F0" />
    </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: 03-JUL-2020 10:04:55, latest date: 08-JUL-2020 06:00:00
    Middle date: 05-JUL-2020 11:00:00
(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="0003180203FF" />
        <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="0003180201FF" />
        <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="01" />
    </Data>
(22) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0000" />
            <OctetString Value="000000000000" />
            <Integer Value="00" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(23) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000F" />
    </Data>
(24) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000000F0" />
    </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: 03-JUL-2020 10:04:55, latest date: 08-JUL-2020 06:00:00
    Middle date: 05-JUL-2020 11:00:00
(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="0004180203FF" />
        <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="0004180201FF" />
        <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="01" />
  </Data>
(30) .sort_object PASSED
  <Data>
    <Structure Qty="0004" >
      <LongUnsigned Value="0000" />
      <OctetString Value="000000000000" />
      <Integer Value="00" />
      <LongUnsigned Value="0000" />
    </Structure>
  </Data>
(31) .entries_in_use PASSED
  <Data>
    <DoubleLongUnsigned Value="000000F" />
  </Data>
(32) .profile_entries PASSED
  <Data>
    <DoubleLongUnsigned Value="000000F0" />
  </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
  <Data>
    <OctetString Value="0001180500FF" />

```



</Data>		
(2) .buffer	Earliest date: 03-JUL-2020 10:04:55, latest date: 07-JUL-2020 10:11:31 Middle date: 05-JUL-2020 10:08:20	PASSED
(3) .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>	PASSED
(4) .capture_period	<Data> <DoubleLongUnsigned Value="00000000" /> </Data>	PASSED
(5) .sort_method	<Data> <Enum Value="01" /> </Data>	PASSED
(6) .sort_object	<Data> <Structure Qty="0004" > <LongUnsigned Value="0000" /> <OctetString Value="000000000000" /> <Integer Value="00" /> <LongUnsigned Value="0000" /> </Structure> </Data>	PASSED
(7) .entries_in_use	<Data> <DoubleLongUnsigned Value="00000005" /> </Data>	PASSED
(8) .profile_entries	<Data> <DoubleLongUnsigned Value="0000000A" /> </Data>	PASSED
Mngmt Get M-Bus Master Control log object 2 0-2:24.5.0.255 (@1952)		
(9) .logical_name	<Data> <OctetString Value="0002180500FF" /> </Data>	PASSED
(10) .buffer	Earliest date: 03-JUL-2020 10:04:56, latest date: 07-JUL-2020 10:11:31 Middle date: 05-JUL-2020 10:08:20	PASSED
(11) .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>	PASSED
(12) .capture_period		PASSED

	<Data> <DoubleLongUnsigned Value="00000000" /> </Data>	
(13)	.sort_method <Data> <Enum Value="01" /> </Data>	PASSED
(14)	.sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0000" /> <OctetString Value="000000000000" /> <Integer Value="00" /> <LongUnsigned Value="0000" /> </Structure> </Data>	PASSED
(15)	.entries_in_use <Data> <DoubleLongUnsigned Value="00000005" /> </Data>	PASSED
(16)	.profile_entries <Data> <DoubleLongUnsigned Value="0000000A" /> </Data>	PASSED
	Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1963)	
(17)	.logical_name <Data> <OctetString Value="0003180500FF" /> </Data>	PASSED
(18)	.buffer Earliest date: 03-JUL-2020 10:04:56, latest date: 07-JUL-2020 10:11:31 Middle date: 05-JUL-2020 10:08:20	PASSED
(19)	.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>	PASSED
(20)	.capture_period <Data> <DoubleLongUnsigned Value="00000000" /> </Data>	PASSED
(21)	.sort_method <Data> <Enum Value="01" /> </Data>	PASSED
(22)	.sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0000" /> <OctetString Value="000000000000" /> <Integer Value="00" /> <LongUnsigned Value="0000" /> </Structure> </Data>	PASSED
(23)	.entries_in_use <Data> <DoubleLongUnsigned Value="00000005" /> </Data>	PASSED
(24)	.profile_entries <Data>	PASSED

<pre>                 &lt;DoubleLongUnsigned Value="0000000A" /&gt;             &lt;/Data&gt; Mngmt Get M-Bus Master Control log object 4 0-4:24.5.0.255 (@1974) (25) .logical_name                                     PASSED     &lt;Data&gt;         &lt;OctetString Value="0004180500FF" /&gt;     &lt;/Data&gt; (26) .buffer   PASSED     Earliest date: 03-JUL-2020 10:04:56, latest date: 07-JUL-2020 10:11:31     Middle date: 05-JUL-2020 10:08:20 (27) .capture_objects                                  PASSED     &lt;Data&gt;         &lt;Array Qty="0002" &gt;             &lt;Structure Qty="0004" &gt;                 &lt;LongUnsigned Value="0008" /&gt;                 &lt;OctetString Value="0000010000FF" /&gt;                 &lt;Integer Value="02" /&gt;                 &lt;LongUnsigned Value="0000" /&gt;             &lt;/Structure&gt;             &lt;Structure Qty="0004" &gt;                 &lt;LongUnsigned Value="0001" /&gt;                 &lt;OctetString Value="0004600B04FF" /&gt;                 &lt;Integer Value="02" /&gt;                 &lt;LongUnsigned Value="0000" /&gt;             &lt;/Structure&gt;         &lt;/Array&gt;     &lt;/Data&gt; (28) .capture_period                                   PASSED     &lt;Data&gt;         &lt;DoubleLongUnsigned Value="00000000" /&gt;     &lt;/Data&gt; (29) .sort_method                                       PASSED     &lt;Data&gt;         &lt;Enum Value="01" /&gt;     &lt;/Data&gt; (30) .sort_object                                       PASSED     &lt;Data&gt;         &lt;Structure Qty="0004" &gt;             &lt;LongUnsigned Value="0000" /&gt;             &lt;OctetString Value="000000000000" /&gt;             &lt;Integer Value="00" /&gt;             &lt;LongUnsigned Value="0000" /&gt;         &lt;/Structure&gt;     &lt;/Data&gt; (31) .entries_in_use                                   PASSED     &lt;Data&gt;         &lt;DoubleLongUnsigned Value="00000005" /&gt;     &lt;/Data&gt; (32) .profile_entries                                   PASSED     &lt;Data&gt;         &lt;DoubleLongUnsigned Value="0000000A" /&gt;     &lt;/Data&gt; Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1989) (33) .logical_name                                     PASSED     &lt;Data&gt;         &lt;OctetString Value="0000636203FF" /&gt;     &lt;/Data&gt; (34) .buffer   PASSED     Earliest date: 03-JUL-2020 09:25:44, latest date: 07-JUL-2020 10:18:18     Middle date: 07-JUL-2020 10:14:59 (35) .capture_objects                                  PASSED     &lt;Data&gt;         &lt;Array Qty="0002" &gt;             &lt;Structure Qty="0004" &gt;                 &lt;LongUnsigned Value="0008" /&gt;                 &lt;OctetString Value="0000010000FF" /&gt;                 &lt;Integer Value="02" /&gt;                 &lt;LongUnsigned Value="0000" /&gt;             &lt;/Structure&gt;             &lt;Structure Qty="0004" &gt;                 &lt;LongUnsigned Value="0001" /&gt;             &lt;/Structure&gt;         &lt;/Array&gt;     &lt;/Data&gt; </pre>	
--	--

```

        <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="0000" />
            <OctetString Value="000000000000" />
            <Integer Value="00" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(39) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000001B" />
    </Data>
(40) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="00000078" />
    </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="01" />
    </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="01" />
    </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="01" />	
	</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="01" />	
	</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>
</Array>
</Structure>
<Structure Qty="0002" >
    <LongUnsigned Value="0002" />
    <Array Qty="0001" >
        <Structure Qty="0005" >
            <Enum Value="01" />
            <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" >
            <Enum Value="01" />
            <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" >
            <Enum Value="01" />
            <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" >
            <Enum Value="01" />
            <LongUnsigned Value="0046" />
            <OctetString Value="0003180400FF" />
            <Integer Value="03" />
            <Enum Value="02" />
        </Structure>
    </Array>
</Structure>
<Structure Qty="0002" >
    <LongUnsigned Value="0006" />
    <Array Qty="0001" >
        <Structure Qty="0005" >
            <Enum Value="01" />
            <LongUnsigned Value="0046" />
            <OctetString Value="0003180400FF" />
            <Integer Value="03" />
            <Enum Value="01" />
        </Structure>
    </Array>
</Structure>
<Structure Qty="0002" >
    <LongUnsigned Value="0007" />
    <Array Qty="0001" >
        <Structure Qty="0005" >
            <Enum Value="01" />

```

```

        <LongUnsigned Value="0046" />
        <OctetString Value="0004180400FF" />
        <Integer Value="03" />
        <Enum Value="02" />
    </Structure>
</Array>
</Structure>
<Structure Qty="0002" >
    <LongUnsigned Value="0008" />
    <Array Qty="0001" >
        <Structure Qty="0005" >
            <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>
<Structure Qty="0002" >
    <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" />
        </Structure>
    </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" >
    <LongUnsigned Value="000F" />
    <Array Qty="0001" >
        <Structure Qty="0005" >
            <Enum Value="02" />
            <LongUnsigned Value="0046" />
            <OctetString Value="0004180400FF" />
            <Integer Value="01" />
            <Integer Value="00" />
        </Structure>
    </Array>
</Structure>
<Structure Qty="0002" >
    <LongUnsigned Value="0010" />
    <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>

```

```

*****
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) Disconnecter 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 *
*****

```

```

// The CTI has a specified syntax but it's format is free
// Keep the leading '\' to denote a visible-string.

```

```

// Mandatory 'Manufacturer' structure
// *****
Manufacturer =
{

```



```

Name = '\Shenzhen Kaifa Technology (Chengdu) Co. Ltd.'
// The manufacturer's FLAG id is a part of the DUT system title
ThreeLettersId = '\KFM'
}

// Mandatory ''DeviceUnderTest'' structure
// *****
DeviceUnderTest =
{
    // Type is any string that the manufacturer provides to identify the type the name
    // or the model of the device
    Type = '\Ma309MH4LAT1'

    // IDISDeviceType is 102 or 103, it is part of the DUT system title
    IDISDeviceType = 103

    // IDISFunctionType indicates the extension(s) supported by the DUT,
    // It is a set (possibly empty) of elements
    // Extension_D, Extension_L, Extension_M
    // Extensions are part of the system title
    IDISFunctionType = [Extension_D, Extension_L, Extension_M]

    // The serial number of the DUT, is also part of its system title.
    SerialNr = 00000050

    // (Optional) IPVersion indicates what IP related objects of the OM are tested: objects
    // marked as M-I4 are
    // tested when IPVersion = IPv4, the same holds for M-I6 and IPVersion = IPv6
    IPVersion = IPv6 // one of IPv4, IPv6

    // (Optional) DataLinkLayer indicates what DL related objects of the OM are tested: objects
    // marked as M-G are
    // tested when DataLinkLayer = GPRS, the same holds for M-E and ETHERNET
    DataLinkLayer = G3 // one of GPRS, ETHERNET

    // (Optional) ConsumerInformationPush indicates that the related feature is implemented.
    // Objects marked as M-C are
    // tested then the value is TRUE
    ConsumerInformationPush = FALSE // or false

    // EUI64Address (mandatory for G3-PLC profile)
    EUI64Address = "0080E1FFFE90879C"
}

// Optional ''TestOptions''
TestOptions =
{
    // (Optional) When set, it overrides the DUT number specified in settings
    DUTTelNr = '\+33619163902'

    // (Optional) When set it overrides the DUT IP address specified in settings
    //DUTIPAddress = "\10.86.10.04"

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

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

ObjectModel =
{
    InstanceExtraInfo =
    {
        // Each instance must be identified by its logical name (in hex or dotted
        // notation)...
        LogicalName = '0-0:29.1.0.255'
    }
}

```

```

        // ... and by its class id.
        ClassId = 91

        // An optional Version
        // If Version is defined then, when cheking the object-list, the version
expected will be
        // this value and not the value of the OM.
        Version = 1

        // An optional list of AttributeExtraInfo can be specified
        AttributeExtraInfo =
        {
            // The attribute id identifies the attribute
            AttributeId = 5
            // If the attribute is writable, then the data written by the set test can be
specified
            // using the xml presentation of the data, as a string
            // See the help file for the xml of the possible data choices
            //SetData = '\<Data><Structure Qty = "02"><Unsigned Value="0"/><OctetString
Value="11223345678900"/></Structure></Data>'
            SetData = '\ ' +
            '<Data>' +
            ' <Structure Qty = "02">' +
            '   <Unsigned Value = "00" />' +
            '   <OctetString Value = "\00112233445566778899AABBCCDDEEFF"/>' +
            ' </Structure>' +
            '</Data>'

            // If an access right is specified as optional in the object model like
            // (Get) or (Set), then the effective access right must be specified as
            // a set (possibly empty) of elements GET, SET and ACTION
            //
            AccessRights = [SET]
        }
    }

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

    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>'
        }
    }

    // Optional objects implemented
    OptionalObjects = '\
+ '1-0:0.9.1.255|1,' // Local Time (@86)
+ '1-0:0.9.2.255|1,' // Local Date (@90)
+ '1-1:0.2.0.255|1,' // Active firmware identifier 1
+ '1-1:0.2.8.255|1,' // Active firmware signature 1

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

// 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>'
+'
  <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>'

```

```

+'          <Unsigned Value="02" />'
+'        </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0001" />'
+'        <OctetString Value="FFFF0205FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned Value="0001" />'
+'      <OctetString Value="FFFF0206FF" />'
+'      <Unsigned Value="02" />'
+'    </Structure>'
+'  <Structure Qty="03" >'
+'    <LongUnsigned Value="0001" />'
+'    <OctetString Value="FFFF0207FF" />'
+'    <Unsigned Value="02" />'
+'  </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0208FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0209FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF020AFF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0301FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0302FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0303FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0304FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0305FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0306FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0307FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0308FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'

```

```

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

InstanceExtraInfo = {
  LogicalName = '0-0:1.0.0.255'
  ClassId = 8
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><OctetString Value="07E40703050A0000FF8000FF" /></Data>' // yyyy mm
dd dow hh mm ss
  }
}

// Mandatory 'TestParameters' structure
// *****
// Defines miscellaneous values used during the test
TestParameters =
{
  // (Optional) Delay (in ms) after executing the Disconnect Control (class 70)
  // connect and disconnect actions performed directly or via a script table.
  ConnectDisconnectDelay = 5000

  // Client system title
  ClientSystemTitle = '58585A0102030405'

  // Structure for the ImageTransfer
  ImageTransfer =
  {
    // Image identifier as passed to the image_transfer_initiate method
    ImageIdentifier = '\KFM'
    // Filename of the image to transfer. If no filepath is given, then the file
    // is supposed to be in the same directory as the CTI file
    ImageFileName = 'test_firmware.bin'
    // Time (in ms) that the iCTT loops reading the image_transfer status waiting for changes
    Timeout = 300000
  }

  // Push timeout is the time (in ms) awaited by the iCTT for the DUT to send a
  DataNotification
  PushTimeout = 60000

  // (Optional) Minimal Inter WPDU frames delay, is the minimal delay (in ms) between two
  WPDU frames sent by the wrapper layer.
  // is null if not specified
  MinInterWPDUFramesDelay = 1000

  // (Optional) Profile periods qty is the number of entries created in the profiles by new
  profiles tests
  // Must be larger than 5, defaults to 6 when not specified
  ProfilePeriodsQty = 6

  // (Optional) Capture delay in (ms) is a delay splitted in two inequal parts, before and
  after a capture.
  // If we expect the DUT to make a capture at time T, then we set the clock to (T -
  CaptureDelay + 5sec)

```

```

// and wait for CaptureDelay seconds for the capture to occur.
// Default to 10000 (10sec)
CaptureDelay = 10000

// (Optional) Duration (in ms) of the clip call from return of ATDT to ATH (defaults to
12000)
ClipCallDuration = 20000

// (Optional) Some AutoConnect attributes
AutoConnect = {
    Repetitions = 2
    RepetitionDelay = 30
}

// (Optional) Some PushSetup attributes
PushSetup = {
    NumberOfRetries = 2
    RepetitionDelay = 30
}

// (optional) Delay (in ms) to wait before performing a wake-up, default = 10000
WakeUpDelay = 30000

// (optional) Delay in ms to wait between a disconnection and the sending of a SMS, default
= 0
DisconnectToSendSMSDelay = 10000

// (optional) Delay in ms between the reception of a DataNotification and the closing of
the inbound push-connection
// opened by the DUT. By default the value is 0. A value of 0xffffffff means that iCTT2
will NOT close the connection,
// the DUT will have to close the connection itself.
//DataNotificationToDisconnectDelay = 4000
}

// Mandatory 'SecurityElements'
// *****
// There are 3 sets of 'SecurityElements', one for each communication profile (Local,
Remote and SMS)

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

// ContextName: either LONG_NAMES or LONG_NAMES_WITH_CIPHERING

// MechanismName: either LOWEST_LEVEL_SECURITY, LOW_LEVEL_SECURITY or
HIGH_LEVEL_SECURITY_GMAC

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

// Password: if required by the mechanism name.

// For the client 'Prestablished' the 2 following members are mandatory:
// ServerMaxReceivePDUSize (integer)
// CipheringStyle (enum), GENERAL or SERVICE

// LocalSecurityElements
// Mandatory, used for the 'local' mode.
LocalSecurityElements =
{
    Public =
    {
        ContextName = LONG_NAMES
        MechanismName = LOWEST_LEVEL_SECURITY
        Policy = NO_SECURITY
    }

    Management =

```

```

    {
        ContextName = LONG_NAMES_WITH_CIPHERING
        MechanismName = HIGH_LEVEL_SECURITY_GMAC
        Policy = AUTHENTICATION_AND_ENCRYPTION
        //ContextName = LONG_NAMES
        //MechanismName = LOW_LEVEL_SECURITY
        //Policy = NO_SECURITY
        //Password = "\12345678"
        CipheringStyle = GENERAL
    }

    PreEstablished =
    {
        Policy = NO_SECURITY
        ServerMaxReceivePDUSize = 1070
        CipheringStyle = GENERAL
    }
}

// RemoteSecurityElements
// Mandatory
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
        CipheringStyle = GENERAL
    }

    PreEstablished = {
        Policy = AUTHENTICATION_AND_ENCRYPTION
        ServerMaxReceivePduSize = 1224
        CipheringStyle = GENERAL
    }
}

// SMS security elements
// Mandatory
SMSSecurityElements = {
    PreEstablished = {
        Policy = AUTHENTICATION_AND_ENCRYPTION//ENCRYPTION//NO_SECURITY
        ServerMaxReceivePDUSize = 138
        CipheringStyle = GENERAL
    }
}

// Mandatory parameters of the ''Local'' HDLC Profile
HDLCProfile =
{

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

    DataLinkLayer =
    {
        InactivityTimeout = 120000
        InterFrameTimeout = 100
        ResponseTimeout = 60000
        DISCToNDMTimeout = 4000
        AddressingSchemes = [TWO_BYTES_ADDRESSING] // TWO_BYTES_ADDRESSING, FOUR_BYTES_ADDRESSING
    }
}

```

```

// For TWO and FOUR bytes addressing schemes, we have to specify also a
ServerLowerMACAddress
ServerLowerMACAddress = 0x11

// (Optional) Minimal delay between the last frame received and the next frame sent ,
default 0
LastRecToNextSendDelay = 0
}

// (Optional) Delay (ms) after sending an UI frame, default 0
UIFrameDelay = 2000
// (optional) UI frames info field length, default 128
UIFrameLength = 126

}

// Mandatory parameters of the ''Remote'' TCP Profile
TCPProfile =
{
ServerTCPPort = 4059
ResponseTimeout = 10000
ConnectTimeout = 5000
DisconnectToConnectDelay = 5000
}

// Mandatory parameters of the ''Remote'' G3-PLC profile
G3PLCProfile = {
FrequencyBand = CENELEC_A
ResponseTimeout = 30000
UDPPort = 61616
ConnectTimeout = 10000
PSK = "00112233445566778899AABBCCDDEEFF"
}

// END CTI_Template

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

TestMode:                G3-PLC
Test Plan Signature:     BFC18D5882976F2087BC007B67CDC246
Object Model:           IDIS-S02-002 - object model Pack2 Ed2.0 - V2.28 (20170428)-FIT MBUS
Tests G350 (CorrectedAndValve status)-2017428.xlsx
DUT system title:       4B464D6770000032
Run number:             418

```