

Final Interoperability Test Report

FIT #: **95**
 Date: 4/21/2023
 Location: DNV-GL,Arnhem, Netherlands
 Page 1 of 39

APPLICANT

Company: Holley Technology Ltd.

Address: No.181 Wuchang Avenue, Yuhang District, Hangzhou 310023, China

DEVICE		
Device type	DTSD545	
<i>Type indication on MID certificate</i>		<i>MID Certificate No.</i>
DTSD545		1644-22
<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	2071	19D0C0BAE6043CEA09173FAF3ADC1998
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input type="checkbox"/>	0094	<input type="checkbox"/>
<i>General information about the device</i>		
Polyphase Smart Meter		

FIRMWARE VERSIONS TESTED				<i>Final Interoperability Test No. 95</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	\1.0.0	\11.02.00.06	\V2943	Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #95

Device:Holley Technology PP DTSD545

DNV-GL,Arnhem, Netherlands, 21.04.2023

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FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	\1.0.0	\11.02.00.06	\V2943	95	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	Only one FW in use
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	Master Setup N/A
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	Power Off Push N/A
FIT Miscellaneous	Passed	
Optical Port Connectivity	Passed	
Consumer Information Interface	Passed	
FIT Conformance Test Report		
<pre> ***** IDIS Conformance test report 02-MAR-2023 11:04:16 iCTT2 Package 2, Edition 2.0, Revision 1 (136) Licensed to: KEMA-IDIS Cert. Tester: Tom Levels ***** ***** * Identification * ***** Manufacturer = { Name = '\Holley Technology LTD' ThreeLettersId = '\HLY' } DeviceUnderTest = { Type = '\DTSD545' IDISDeviceType = 103 IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M] SerialNr = 99710718 IPVersion = IPV6 DataLinkLayer = G3 EUI64Address = '0000000099710718' ConsumerInformationPush = FALSE SMSSupported = FALSE ClipCallSupported = FALSE } Active firmware identifier (1-0:0.2.0.255) = \1.0.0 Active firmware identifier 1 (1-1:0.2.0.255) = \11.02.00.06 Active firmware identifier 2 (1-2:0.2.0.255) = \V2943 ***** * Summary * ***** PASSED 270 FAILED 0 DISABLED 0 </pre>		

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="\99710718" />		
</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="\DTSD545" />		
</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="\E" />		
</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="\19-X003-01VS1.1" />		
</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="\HLY1030799710718" />
  </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="\HLY1030799710718" />
      </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="\1.0.0" />
  </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="\D8B54B95" />
  </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="\11.02.00.06" />
  </Data>

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

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    <Data>
      <OctetString Value="0101000208FF" />
    </Data>
(8) .value PASSED
    <Data>
      <OctetString Value="\03C5B629" />
    </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="\V2943      " />
    </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="\2617DD9D" />
    </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="07E70302FF100000FF8000FF" />
    </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="07E7030204100002FFFFC400" />
    </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="001E" />
          <OctetString Value="FFFF0101FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="001D" />
          <OctetString Value="FFFF0102FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="001C" />
          <OctetString Value="FFFF0103FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="001B" />

```

```

    <OctetString Value="FFFF0104FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001A" />
    <OctetString Value="FFFF0105FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0019" />
    <OctetString Value="FFFF0106FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0018" />
    <OctetString Value="FFFF0107FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0017" />
    <OctetString Value="FFFF0108FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0016" />
    <OctetString Value="FFFF0109FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0015" />
    <OctetString Value="FFFF010AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0014" />
    <OctetString Value="FFFF0201FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0013" />
    <OctetString Value="FFFF0202FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0012" />
    <OctetString Value="FFFF0203FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0011" />
    <OctetString Value="FFFF0204FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0010" />
    <OctetString Value="FFFF0205FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000F" />
    <OctetString Value="FFFF0206FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000E" />
    <OctetString Value="FFFF0207FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000D" />
    <OctetString Value="FFFF0208FF" />
    <Unsigned Value="02" />
  </Structure>

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="000C" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000B" />
  <OctetString Value="FFFF020AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000A" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0009" />
  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0008" />
  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0007" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0006" />
  <OctetString Value="FFFF0305FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0005" />
  <OctetString Value="FFFF0306FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0004" />
  <OctetString Value="FFFF0307FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0003" />
  <OctetString Value="FFFF0308FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0002" />
  <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

```

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

```

PASSED


```

    <OctetString Value="FFFF0101FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001D" />
    <OctetString Value="FFFF0102FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001C" />
    <OctetString Value="FFFF0103FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001B" />
    <OctetString Value="FFFF0104FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001A" />
    <OctetString Value="FFFF0105FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0019" />
    <OctetString Value="FFFF0106FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0018" />
    <OctetString Value="FFFF0107FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0017" />
    <OctetString Value="FFFF0108FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0016" />
    <OctetString Value="FFFF0109FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0015" />
    <OctetString Value="FFFF010AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0014" />
    <OctetString Value="FFFF0201FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0013" />
    <OctetString Value="FFFF0202FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0012" />
    <OctetString Value="FFFF0203FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0011" />
    <OctetString Value="FFFF0204FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0010" />
    <OctetString Value="FFFF0205FF" />
    <Unsigned Value="02" />
  </Structure>

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="000F" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000E" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000D" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000C" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000B" />
  <OctetString Value="FFFF020AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000A" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0009" />
  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0008" />
  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0007" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0006" />
  <OctetString Value="FFFF0305FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0005" />
  <OctetString Value="FFFF0306FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0004" />
  <OctetString Value="FFFF0307FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0003" />
  <OctetString Value="FFFF0308FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0002" />
  <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: 01-DEC-2021 23:46:14, latest date: 16-FEB-2023 10:36:21
    Middle date: 16-FEB-2023 10:34:14
(3) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000001B" />
    </Data>
(4) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="0000001E" />
    </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: 14-FEB-2023 23:59:53, latest date: 02-MAR-2023 16:00:04
    Middle date: 02-MAR-2023 11:01:24
(7) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000064" />
    </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: 01-DEC-2021 23:46:14, latest date: 02-MAR-2023 12:07:45
    Middle date: 02-MAY-2022 00:00:22
(11) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000011" />
    </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: 01-DEC-2021 23:46:14, latest date: 02-MAR-2023 12:09:08
    Middle date: 02-MAY-2022 00:00:27
(15) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000C" />
    </Data>
(16) .profile_entries PASSED

```

```

        <Data>
        <DoubleLongUnsigned Value="000000FF" />
    </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-DEC-2021 23:46:14, latest date: 02-MAR-2023 12:11:09
    Middle date: 16-FEB-2023 10:57:06
(19) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="00000033" />
    </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: 02-MAR-2023 00:00:00, latest date: 02-SEP-2023 00:00:00
    Middle date: 02-AUG-2023 00:00:00
(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

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```

    <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="0000000A" />
    </Data>
(8) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="0000000E" />
    </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="0004" >
        <Structure Qty="0002" >
          <OctetString Value="\L" />
          <OctetString Value="933A" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="8940" />
          <OctetString Value="FD1A" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="0000000000000000" />
          <OctetString Value="0000000000000000" />
        </Structure>
        <Structure Qty="0002" >
          <OctetString Value="0000000000000000" />
          <OctetString Value="0000000000000000" />
        </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="4D" />	
	</Data>	
(15)	.status	PASSED
	<Data>	
	<Unsigned Value="44" />	
	</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="0004" >	
	<Structure Qty="0002" >	
	<OctetString Value="\L" />	
	<OctetString Value="933A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="8940" />	
	<OctetString Value="FD1A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="0000000000000000" />	
	<OctetString Value="0000000000000000" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="0000000000000000" />	
	<OctetString Value="0000000000000000" />	
	</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	PASSED
	<Data>	
	<Unsigned Value="9A" />	
	</Data>	
(27)	.status	PASSED
	<Data>	
	<Unsigned Value="44" />	
	</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="0004" >	
	<Structure Qty="0002" >	
	<OctetString Value="\L" />	
	<OctetString Value="933A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="8940" />	
	<OctetString Value="FD1A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="0000000000000000" />	
	<OctetString Value="0000000000000000" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="0000000000000000" />	
	<OctetString Value="0000000000000000" />	
	</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="00047BB4" />	
	</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="2F" />	
	</Data>	
(39)	.status	PASSED
	<Data>	
	<Unsigned Value="44" />	
	</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="0004" >	
	<Structure Qty="0002" >	
	<OctetString Value="\L" />	
	<OctetString Value="933A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="8940" />	
	<OctetString Value="FD1A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="0000000000000000" />	
	<OctetString Value="0000000000000000" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="0000000000000000" />	
	<OctetString Value="0000000000000000" />	
	</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="F3" />
    </Data>
(51) .status                                          PASSED
    <Data>
        <Unsigned Value="44" />
    </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="00000FB7" />
    </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="07E70302040C0A00FFFC400" />
    </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="07E70302040C0A00FFFC400" />
    </Data>

```

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="00000BC4" /> </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="07E70302040C0B00FFFC400" /> </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> <DoubleLongUnsigned Value="00000001" /> </Data> </pre>	
(18) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data> </pre>	
(19) .status	PASSED
<pre> <Data> <Unsigned Value="00" /> </Data> </pre>	
(20) .capture_time	PASSED
<pre> <Data> <OctetString Value="07E70302040C0B00FFFC400" /> </Data> </pre>	
Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1726)	
(21) .logical_name	PASSED
<pre> <Data> <OctetString Value="0003180201FF" /> </Data> </pre>	
(22) .value	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000EB2" /> </Data> </pre>	
(23) .scaler_unit	PASSED
<pre> <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> </pre>	
(24) .status	PASSED
<pre> <Data> <Unsigned Value="00" /> </Data> </pre>	
(25) .capture_time	PASSED
<pre> <Data> <OctetString Value="07E70302040C0B00FFFC400" /> </pre>	

</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="07E70302040C0B00FFFC400" /> </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
<Data> <DoubleLongUnsigned Value="00000AEA" /> </Data>		
(33) .scaler_unit		PASSED
<Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data>		
(34) .status		PASSED
<Data> <Unsigned Value="00" /> </Data>		
(35) .capture_time		PASSED
<Data> <OctetString Value="07E70302040C0B00FFFC400" /> </Data>		
Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1766)		
(36) .logical_name		PASSED
<Data> <OctetString Value="0004180202FF" /> </Data>		
(37) .value		PASSED
<Data> <DoubleLongUnsigned Value="00000001" /> </Data>		
(38) .scaler_unit		PASSED
<Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data>		
(39) .status		PASSED
<Data> <Unsigned Value="00" /> </Data>		
(40) .capture_time		PASSED

```

    <Data>
      <OctetString Value="07E70302040C0B00FFFC400" />
    </Data>

*****
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 PASSED
    <Data>
      <OctetString Value="0001600100FF" />
    </Data>
(2) .value PASSED
    <Data>
      <OctetString Value="" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1794)
(3) .logical_name PASSED
    <Data>
      <OctetString Value="0002600100FF" />
    </Data>
(4) .value PASSED
    <Data>
      <OctetString Value="" />
    </Data>

Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1798)
(5) .logical_name PASSED
    <Data>
      <OctetString Value="0003600100FF" />
    </Data>
(6) .value PASSED
    <Data>
      <OctetString Value="" />
    </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="" />
    </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="" />
    </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="" />
    </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="" />	
</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="" />	
</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: 02-DEC-2021 00:00:00, latest date: 02-MAR-2023 13:00:00	
Middle date: 13-FEB-2023 00:00:00	
(3) .capture_objects	PASSED
<Data>	
<Array Qty="0006" >	
<Structure Qty="0004" >	
<LongUnsigned Value="0008" />	
<OctetString Value="0000010000FF" />	
<Integer Value="02" />	
<LongUnsigned Value="0000" />	
</Structure>	
<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>	
(13)	.sort_method <Data> <Enum Value="04" /> </Data>	PASSED
(14)	.sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data>	PASSED
(15)	.entries_in_use <Data> <DoubleLongUnsigned Value="00000023" /> </Data>	PASSED
(16)	.profile_entries <Data> <DoubleLongUnsigned Value="000008D3" /> </Data>	PASSED
	Mngmt Get M-Bus Master Load profile for channel 3 0-3:24.3.0.255 (@1860)	
(17)	.logical_name <Data> <OctetString Value="0003180300FF" /> </Data>	PASSED
(18)	.buffer Earliest date: 02-DEC-2021 00:00:00, latest date: 02-MAR-2023 13:00:00 Middle date: 13-FEB-2023 00:00:00	PASSED
(19)	.capture_objects <Data> <Array Qty="0006" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0003600A03FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0003180201FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0003180202FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0003180203FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0003180204FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data>	PASSED
(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="00000023" />
    </Data>
(24) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="000008D3" />
    </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: 02-DEC-2021 00:00:00, latest date: 02-MAR-2023 13:00:00
    Middle date: 13-FEB-2023 00:00:00
(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>

```


(7) .entries_in_use	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000006" /> </Data> </pre>	
(8) .profile_entries	PASSED
<pre> <Data> <DoubleLongUnsigned Value="0000000A" /> </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: 02-MAY-2022 00:00:51, latest date: 02-MAY-2022 00:01:08 Middle date: 02-MAY-2022 00:01:01 </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>	
(12) .capture_period	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000000" /> </Data> </pre>	
(13) .sort_method	PASSED
<pre> <Data> <Enum Value="01" /> </Data> </pre>	
(14) .sort_object	PASSED
<pre> <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data> </pre>	
(15) .entries_in_use	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000006" /> </Data> </pre>	
(16) .profile_entries	PASSED
<pre> <Data> <DoubleLongUnsigned Value="0000000A" /> </Data> </pre>	
Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1963)	
(17) .logical_name	PASSED
<pre> <Data> <OctetString Value="0003180500FF" /> </Data> </pre>	
(18) .buffer	PASSED
<pre> Earliest date: 02-MAY-2022 00:01:11, latest date: 02-MAY-2022 00:01:30 Middle date: 02-MAY-2022 00:01:21 </pre>	
(19) .capture_objects	PASSED
<pre> <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> </pre>	

	<pre> <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> </pre>	
(20)	.capture_period	PASSED
	<pre> <Data> <DoubleLongUnsigned Value="00000000" /> </Data> </pre>	
(21)	.sort_method	PASSED
	<pre> <Data> <Enum Value="01" /> </Data> </pre>	
(22)	.sort_object	PASSED
	<pre> <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data> </pre>	
(23)	.entries_in_use	PASSED
	<pre> <Data> <DoubleLongUnsigned Value="00000006" /> </Data> </pre>	
(24)	.profile_entries	PASSED
	<pre> <Data> <DoubleLongUnsigned Value="0000000A" /> </Data> </pre>	
	Mngmt Get M-Bus Master Control log object 4 0-4:24.5.0.255 (@1974)	
(25)	.logical_name	PASSED
	<pre> <Data> <OctetString Value="0004180500FF" /> </Data> </pre>	
(26)	.buffer	PASSED
	<pre> Earliest date: 02-MAY-2022 00:01:33, latest date: 02-MAY-2022 00:01:50 Middle date: 02-MAY-2022 00:01:43 </pre>	
(27)	.capture_objects	PASSED
	<pre> <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0004600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data> </pre>	
(28)	.capture_period	PASSED
	<pre> <Data> <DoubleLongUnsigned Value="00000000" /> </Data> </pre>	
(29)	.sort_method	PASSED
	<pre> <Data> <Enum Value="01" /> </Data> </pre>	
(30)	.sort_object	PASSED
	<pre> <Data> </pre>	

```

        <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="00000006" />
    </Data>
(32) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000A" />
    </Data>

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1989)
(33) .logical_name PASSED
    <Data>
        <OctetString Value="0000636203FF" />
    </Data>
(34) .buffer PASSED
    Earliest date: 02-MAY-2022 00:01:54, latest date: 02-MAY-2022 00:02:11
    Middle date: 02-MAY-2022 00:02:04
(35) .capture_objects PASSED
    <Data>
        <Array Qty="0002" >
            <Structure Qty="0004" >
                <LongUnsigned Value="0008" />
                <OctetString Value="0000010000FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
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            <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="00000006" />
    </Data>
(40) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000A" />
    </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

```



```

        <OctetString Value="0002180400FF" />
        <Integer Value="03" />
        <Integer Value="01" />
    </Structure>
</Array>
</Structure>
<Structure Qty="0002" >
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    <Array Qty="0001" >
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            <LongUnsigned Value="0046" />
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            <Integer Value="02" />
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    </Array>
</Structure>
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    <LongUnsigned Value="0006" />
    <Array Qty="0001" >
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            <LongUnsigned Value="0046" />
            <OctetString Value="0003180400FF" />
            <Integer Value="03" />
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    </Array>
</Structure>
<Structure Qty="0002" >
    <LongUnsigned Value="0007" />
    <Array Qty="0001" >
        <Structure Qty="0005" >
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            <Integer Value="02" />
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    </Array>
</Structure>
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    </Array>
</Structure>
<Structure Qty="0002" >
    <LongUnsigned Value="0009" />
    <Array Qty="0001" >
        <Structure Qty="0005" >
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            <LongUnsigned Value="0046" />
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            <Integer Value="00" />
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    </Array>
</Structure>
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    <Array Qty="0001" >
        <Structure Qty="0005" >
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            <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 *
*****

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

Manufacturer = {
    Name = '\Holley Technology LTD'
    ThreeLettersId = '\HLY'
}

DeviceUnderTest = {
    Type = '\DTSD545'
    IDISDeviceType = 103
    IDISFunctionType = [Extension_D,Extension_L,Extension_M]
    SerialNr = 99710718
    IPVersion = IPv6
    DataLinkLayer = G3
    EUI64Address = "0000000099710718"
    ConsumerInformationPush = FALSE
    SMSSupported = FALSE
    ClipCallSupported = FALSE
}

TestOptions = {
}

ObjectModel = {
    // Optional objects implemented
    // 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 (@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)
+ '1-0:9.6.0.255|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)

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

InstanceExtraInfo = {
  // Predefined Scripts - MDI reset / end of billing period (@147)
  LogicalName = '0-0:10.0.1.255'
  ClassId = 9
  AttributeExtraInfo = {
    // scripts
    AttributeId = 2
    AccessRights = [GET]
  }
}

InstanceExtraInfo = {
  // Predefined Scripts - Image activation (@407)
  LogicalName = '0-0:10.0.107.255'
  ClassId = 9
  AttributeExtraInfo = {

```

```

    // scripts
    AttributeId = 2
    AccessRights = [GET]
  }
}

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 = {
  // G3-PLC MAC Setup (@2217)
  LogicalName = '0-0:29.1.0.255'
  ClassId = 91
  AttributeExtraInfo = {
    // mac_key_table
    AttributeId = 5
    SetData = '\<Data>'
+'   <Array Qty="01" >'
+'     <Structure Qty="02" >'
+'       <Unsigned Value="00" />'
+'       <OctetString Value="00112233445566778899AABBCCDDEEFF" />'
+'     </Structure>'
+'   </Array>'
+' </Data>'
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:1.0.0.255'
  ClassId = 8
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><OctetString Value="07E70302FF10000FF8000FF" /></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="001E" />'
+'       <OctetString Value="FFFF0101FF" />'
+'       <Unsigned Value="02" />'
+'     </Structure>'
+'     <Structure Qty="03" >'
+'       <LongUnsigned Value="001D" />'
+'       <OctetString Value="FFFF0102FF" />'
+'       <Unsigned Value="02" />'
+'     </Structure>'
+'     <Structure Qty="03" >'
+'       <LongUnsigned Value="001C" />'
+'       <OctetString Value="FFFF0103FF" />'
+'       <Unsigned Value="02" />'
+'     </Structure>'
+'     <Structure Qty="03" >'
+'       <LongUnsigned Value="001B" />'
+'       <OctetString Value="FFFF0104FF" />'
+'       <Unsigned Value="02" />'
+'     </Structure>'
+'   </Array>'
+' </Data>'
  }
}

```

```

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+'   <Unsigned Value="02" />'
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```

```

+'          </Structure>'
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+'            <OctetString Value="FFFF0304FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
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+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0005" />'
+'            <OctetString Value="FFFF0306FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0004" />'
+'            <OctetString Value="FFFF0307FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0003" />'
+'            <OctetString Value="FFFF0308FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0002" />'
+'            <OctetString Value="FFFF0309FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0001" />'
+'            <OctetString Value="FFFF030AFF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'        </Array>'
+'      </Data>'
+'    }
+'  }
}

```

```

TestParameters = {
  ConnectDisconnectDelay = 5000
  ClientSystemTitle = '58585A0102030405'

  ImageTransfer = {
    ImageIdentifier =
'303230333131323830393230484D533358583235313232473547303030303030303030303232323232323232323039
313032304643343130424531344341434238414136444333443945453433538314539'
    ImageFileName = '\HLY- Three-phase- 11.02.00.02.bin'
  }
}

```

```

    Timeout          = 180000
}

PushTimeout = 180000
MinInterWPDUFramesDelay = 2000
ProfilePeriodsQty = 6
CaptureDelay = 12000
ClipCallDuration = 12000

AutoConnect = {
    Repetitions      = 0
    RepetitionDelay = 0
}

PushSetup = {
    NumberOfRetries = 0
    RepetitionDelay = 0
}

WakeUpDelay = 10000
DisconnectToSendSMSDelay = 10000
DataNotificationToDisconnectDelay = 10000
}

LocalSecurityElements = {
    Public = {
        ContextName = LONG_NAMES
        MechanismName = LOWEST_LEVEL_SECURITY
        Policy = NO_SECURITY
    }
    Management = {
        ContextName = LONG_NAMES_WITH_CIPHERING
        MechanismName = HIGH_LEVEL_SECURITY_GMAC
        Policy = AUTHENTICATION_AND_ENCRYPTION
        Password = '\12345678'
    }
    PreEstablished = {
        Policy = AUTHENTICATION_AND_ENCRYPTION
        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 = MODE_E
        HdLcBaud = 9600
    }
    DataLinkLayer = {
        InactivityTimeout      = 200000
        InterFrameTimeout      = 10000
        ResponseTimeout         = 15000
        DISCToNDMTimeout       = 180000
        AddressingSchemes       = [TWO_BYTES_ADDRESSING]
        ServerLowerMACAddress   = 0x11
        LastRecToNextSendDelay = 0
    }

    UIFrameDelay = 2000

    UIFrameLength = 126

}

TCPPProfile = {
    ServerTCPPort = 4059
    ResponseTimeout = 90000
    ConnectTimeout = 15000
    DisconnectToConnectDelay = 30000
}

// Mandatory parameters of the ''Remote'' G3-PLC profile
G3PLCProfile = {
    FrequencyBand = FCC
    ResponseTimeout = 30000
    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:        484C596775F176FE
Run number:               2017

```