

Final Interoperability Test Report

FIT #: **88**
 Date: 7/22/2022
 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	DDSD285	
<i>Type indication on MID certificate</i>		<i>MID Certificate No.</i>
DDSD285		1539-22 R0
<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	1880	F2145CFFF99D9BCDE2CC0F2A7AC5CCFB
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input checked="" type="checkbox"/>	0090	<input type="checkbox"/>
<i>General information about the device</i>		
Single-Phase Smart Meter		

FIRMWARE VERSIONS TESTED				<i>Final Interoperability Test No. 88</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	HMSP1626001G3P0 000998D01810291 10	00.00.01.02		Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #88

Device:Holley Technology DDSD285

DNV-GL,Arnhem, Netherlands, 22.07.2022

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FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	HMSF1626001G3P0 000998D01810291 10	00.00.01.02		88	Passed

TEST REPORT - Firmware No. 1		
Test	Verdict	Remark
Connect and release	Passed	
All Device IDs	Passed	
COSEM logical device name	Passed	
SAP assignment	Passed	
FW version and signature	Passed	
All Device ID's	Passed	
Broadcast Date and time	Passed	
Broadcast Special Days Table	Passed	
Event logs	Passed	
Billing data period 1	Passed	
M-Bus Channel Setup	Passed	
M-Bus Results	Passed	
M-Bus Devices IDs	Passed	
M-Bus profiles	Passed	
M-Bus Load profiles	Passed	
M-Bus control logs	Passed	
M-Bus Disconnect log	Passed	
FIT Push	Passed	
FIT Miscellaneous	Passed	
Optical Port Connectivity	Passed	
Consumer Information Interface	Passed	
FIT Conformance Test Report		
<pre> ***** IDIS Conformance test report 30-JUN-2022 15:40:17 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 = '\DDSD285' IDISDeviceType = 102 IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M] SerialNr = 99710723 IPVersion = IPV6 DataLinkLayer = G3 EUI64Address = '0000000099710723' ConsumerInformationPush = FALSE SMSSupported = FALSE ClipCallSupported = FALSE } Active firmware identifier (1-0:0.2.0.255) = \HMSP1626001G3P0000998D0181029110 Active firmware identifier 1 (1-1:0.2.0.255) = \00.00.01.02 ***** * Summary * ***** PASSED 266 FAILED 0 DISABLED 0 INAPPLICABLE 7 </pre>		

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="\99710723" />		
</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="\DDSD285" />		
</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="\HLY1020799710723" />
    </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="\HLY1020799710723" />
            </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="\HMSP1626001G3P0000998D0181029110" />
    </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="\CA61D217" />
    </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="\00.00.01.02" />
    </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="\0071F5B9" />
    </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="07E60614FF120000FF8000FF" />
    </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="07E6061401120006FFFF8880" />
    </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="0002" />
                <OctetString Value="FFFF0102FF" />
                <Unsigned Value="02" />
            </Structure>
            <Structure Qty="0003" >
                <LongUnsigned Value="0003" />
                <OctetString Value="FFFF0103FF" />
                <Unsigned Value="02" />
            </Structure>
            <Structure Qty="0003" >
                <LongUnsigned Value="0004" />
                <OctetString Value="FFFF0104FF" />
                <Unsigned Value="02" />
            </Structure>
            <Structure Qty="0003" >
                <LongUnsigned Value="0005" />
            </Structure>
        </Array>
    </Data>

```

```

    <OctetString Value="FFFF0105FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0006" />
    <OctetString Value="FFFF0106FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0007" />
    <OctetString Value="FFFF0107FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0008" />
    <OctetString Value="FFFF0108FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0009" />
    <OctetString Value="FFFF0109FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000A" />
    <OctetString Value="FFFF010AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000B" />
    <OctetString Value="FFFF0201FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000C" />
    <OctetString Value="FFFF0202FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000D" />
    <OctetString Value="FFFF0203FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000E" />
    <OctetString Value="FFFF0204FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000F" />
    <OctetString Value="FFFF0205FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0010" />
    <OctetString Value="FFFF0206FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0011" />
    <OctetString Value="FFFF0207FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0012" />
    <OctetString Value="FFFF0208FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0013" />
    <OctetString Value="FFFF0209FF" />
    <Unsigned Value="02" />
  </Structure>

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="0014" />
  <OctetString Value="FFFF020AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0015" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0016" />
  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0017" />
  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0018" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0019" />
  <OctetString Value="FFFF0305FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001A" />
  <OctetString Value="FFFF0306FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001B" />
  <OctetString Value="FFFF0307FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001C" />
  <OctetString Value="FFFF0308FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001D" />
  <OctetString Value="FFFF0309FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001E" />
  <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="0002" />

```



```

    <OctetString Value="FFFF0102FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0003" />
    <OctetString Value="FFFF0103FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0004" />
    <OctetString Value="FFFF0104FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0005" />
    <OctetString Value="FFFF0105FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0006" />
    <OctetString Value="FFFF0106FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0007" />
    <OctetString Value="FFFF0107FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0008" />
    <OctetString Value="FFFF0108FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0009" />
    <OctetString Value="FFFF0109FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000A" />
    <OctetString Value="FFFF010AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000B" />
    <OctetString Value="FFFF0201FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000C" />
    <OctetString Value="FFFF0202FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000D" />
    <OctetString Value="FFFF0203FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000E" />
    <OctetString Value="FFFF0204FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000F" />
    <OctetString Value="FFFF0205FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0010" />
    <OctetString Value="FFFF0206FF" />
    <Unsigned Value="02" />
  </Structure>

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="0011" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0012" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0013" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0014" />
  <OctetString Value="FFFF020AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0015" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0016" />
  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0017" />
  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0018" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0019" />
  <OctetString Value="FFFF0305FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001A" />
  <OctetString Value="FFFF0306FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001B" />
  <OctetString Value="FFFF0307FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001C" />
  <OctetString Value="FFFF0308FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001D" />
  <OctetString Value="FFFF0309FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001E" />
  <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: 02-MAY-2022 00:00:22, latest date: 02-MAY-2022 00:00:23
    Middle date: 02-MAY-2022 00:00:22
(3) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="00000006" />
    </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: 01-DEC-2021 23:46:30, latest date: 30-JUN-2022 15:41:17
    Middle date: 02-APR-2022 00:00:17
(7) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="00000016" />
    </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 23:46:28, latest date: 02-MAY-2022 00:00:21
    Middle date: 02-MAY-2022 00:00:21
(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: 02-MAY-2022 00:00:25, latest date: 30-JUN-2022 15:37:39
    Middle date: 02-MAY-2022 00:00:26
(15) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="00000007" />
    </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
<pre> <Data> <OctetString Value="0000636204FF" /> </Data> </pre>	
(18) .buffer	PASSED
<pre> Earliest date: 02-MAY-2022 00:00:23, latest date: 02-MAY-2022 00:00:25 Middle date: 02-MAY-2022 00:00:24 </pre>	
(19) .entries_in_use	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000006" /> </Data> </pre>	
(20) .profile_entries	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000064" /> </Data> </pre>	
<pre> ***** Test Case 11 : Reading Data of Billing Period 1, 8 item(s) ***** </pre>	
<pre> Mngmt Get Data of billing period 1 0-0:98.1.0.255 (@158) </pre>	
(1) .logical_name	PASSED
<pre> <Data> <OctetString Value="0000620100FF" /> </Data> </pre>	
(2) .buffer	PASSED
<pre> Earliest date: 02-JAN-2022 00:00:00, latest date: 02-JUN-2022 00:00:00 Middle date: 02-APR-2022 00:00:00 </pre>	
(3) .capture_objects	PASSED
<pre> <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> </pre>	
(4) .capture_period	PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000000" /> </Data> </pre>	
(5) .sort_method	PASSED
<pre> <Data> <Enum Value="01" /> </Data> </pre>	
(6) .sort_object	PASSED
<pre> <Data> </pre>	

```

        <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="00000006" />
    </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>	
(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 <Data> <Unsigned Value="49" /> </Data>	PASSED
(27)	.status <Data> <Unsigned Value="44" /> </Data>	PASSED
(28)	.alarm <Data> <Unsigned Value="00" /> </Data>	PASSED
Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1618)		
(29)	.logical_name <Data> <OctetString Value="0003180100FF" /> </Data>	PASSED
(30)	.mbus_port_reference <Data> <OctetString Value="0000180600FF" /> </Data>	PASSED
(31)	.capture_definition <Data> <Array Qty="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>	PASSED
(32)	.capture_period <Data> <DoubleLongUnsigned Value="00000E10" /> </Data>	PASSED
(33)	.primary_address <Data> <Unsigned Value="03" /> </Data>	PASSED
(34)	.identification_number <Data> <DoubleLongUnsigned Value="00047BB4" /> </Data>	PASSED
(35)	.manufacturer_id <Data> <LongUnsigned Value="19AC" /> </Data>	PASSED
(36)	.version	PASSED

<pre> </Data> (50) .access_number <Data> <Unsigned Value="3C" /> </Data> (51) .status <Data> <Unsigned Value="44" /> </Data> (52) .alarm <Data> <Unsigned Value="00" /> </Data> </pre>	<p>PASSED</p> <p>PASSED</p> <p>PASSED</p>
<p>***** Test Case 13 : Ext. M - M-Bus Results uncorrected Vol. & valve, 40 item(s) *****</p>	
<pre> Mngmt Get M-Bus Value channel 1, instance 1 0-1:24.2.1.255 (@1662) (1) .logical_name <Data> <OctetString Value="0001180201FF" /> </Data> (2) .value <Data> <DoubleLongUnsigned Value="00000F6F" /> </Data> (3) .scaler_unit <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> (4) .status <Data> <Unsigned Value="00" /> </Data> (5) .capture_time <Data> <OctetString Value="07E6061E040F1E10FFFF8880" /> </Data> </pre>	<p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p>
<pre> Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1670) (6) .logical_name <Data> <OctetString Value="0001180202FF" /> </Data> (7) .value <Data> <DoubleLongUnsigned Value="00000001" /> </Data> (8) .scaler_unit <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data> (9) .status <Data> <Unsigned Value="00" /> </Data> (10) .capture_time <Data> <OctetString Value="07E6061E040F1E10FFFF8880" /> </Data> </pre>	<p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p> <p>PASSED</p>
<pre> Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1694) (11) .logical_name <Data> <OctetString Value="0002180201FF" /> </Data> </pre>	<p>PASSED</p>

(12)	.value	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000B60" />	
	</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="07E6061E040F1E27FFFF8880" />	
	</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
	<Data>	
	<Structure Qty="0002" >	
	<Integer Value="00" />	
	<Enum Value="FF" />	
	</Structure>	
	</Data>	
(19)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(20)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E6061E040F1E27FFFF8880" />	
	</Data>	
Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1726)		
(21)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0003180201FF" />	
	</Data>	
(22)	.value	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000E51" />	
	</Data>	
(23)	.scaler_unit	PASSED
	<Data>	
	<Structure Qty="0002" >	
	<Integer Value="FD" />	
	<Enum Value="0D" />	
	</Structure>	
	</Data>	
(24)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(25)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E6061E040F1F02FFFF8880" />	
	</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="07E6061E040F1F02FFFF8880" />
    </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="00000A9C" />
    </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="07E6061E040F1F19FFFF8880" />
    </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="07E6061E040F1F19FFFF8880" />
    </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
<pre> <Data> <OctetString Value="0004600101FF" /> </Data> </pre>		
(16) .value		PASSED
<pre> <Data> <OctetString Value="" /> </Data> </pre>		

Test Case 15 : Ext. M - M-Bus Load Profiles, 32 item(s)		

Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1838)		
(1) .logical_name		PASSED
<pre> <Data> <OctetString Value="0001180300FF" /> </Data> </pre>		
(2) .buffer		PASSED
<pre> Earliest date: 02-DEC-2021 00:00:00, latest date: 02-MAY-2022 01:00:00 Middle date: 02-MAR-2022 01:00:00 </pre>		
(3) .capture_objects		PASSED
<pre> <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> </pre>		
(4) .capture_period		PASSED
<pre> <Data> <DoubleLongUnsigned Value="00000E10" /> </Data> </pre>		
(5) .sort_method		PASSED
<pre> <Data> <Enum Value="04" /> </Data> </pre>		
(6) .sort_object		PASSED
<pre> <Data> </pre>		

	<pre> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data> </pre>	
(7)	.entries_in_use	PASSED
	<pre> <Data> <DoubleLongUnsigned Value="0000000D" /> </Data> </pre>	
(8)	.profile_entries	PASSED
	<pre> <Data> <DoubleLongUnsigned Value="000001A7" /> </Data> </pre>	
	Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1849)	
(9)	.logical_name	PASSED
	<pre> <Data> <OctetString Value="0002180300FF" /> </Data> </pre>	
(10)	.buffer	PASSED
	<pre> Earliest date: 02-DEC-2021 00:00:00, latest date: 02-MAY-2022 01:00:00 Middle date: 02-MAR-2022 01:00:00 </pre>	
(11)	.capture_objects	PASSED
	<pre> <Data> <Array Qty="0006" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0002600A03FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0002180201FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0002180202FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0002180203FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0002180204FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data> </pre>	
(12)	.capture_period	PASSED
	<pre> <Data> <DoubleLongUnsigned Value="00000E10" /> </Data> </pre>	
(13)	.sort_method	PASSED
	<pre> <Data> <Enum Value="04" /> </Data> </pre>	

(14)	.sort_object	PASSED
	<Data>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0008" />	
	<OctetString Value="0000010000FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	</Data>	
(15)	.entries_in_use	PASSED
	<Data>	
	<DoubleLongUnsigned Value="0000000D" />	
	</Data>	
(16)	.profile_entries	PASSED
	<Data>	
	<DoubleLongUnsigned Value="000001A7" />	
	</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: 02-DEC-2021 00:00:00, latest date: 02-MAY-2022 01:00:00	
	Middle date: 02-MAR-2022 01:00:00	
(19)	.capture_objects	PASSED
	<Data>	
	<Array Qty="0006" >	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0008" />	
	<OctetString Value="0000010000FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0001" />	
	<OctetString Value="0003600A03FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0004" />	
	<OctetString Value="0003180201FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0004" />	
	<OctetString Value="0003180202FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0004" />	
	<OctetString Value="0003180203FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0004" />	
	<OctetString Value="0003180204FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	</Array>	
	</Data>	
(20)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000E10" />	
	</Data>	
(21)	.sort_method	PASSED
	<Data>	

	<Enum Value="04" /> </Data>	
(22)	.sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data>	PASSED
(23)	.entries_in_use <Data> <DoubleLongUnsigned Value="0000000D" /> </Data>	PASSED
(24)	.profile_entries <Data> <DoubleLongUnsigned Value="000001A7" /> </Data>	PASSED
	Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1871)	
(25)	.logical_name <Data> <OctetString Value="0004180300FF" /> </Data>	PASSED
(26)	.buffer Earliest date: 02-DEC-2021 00:00:00, latest date: 02-MAY-2022 01:00:00 Middle date: 02-MAR-2022 01:00:00	PASSED
(27)	.capture_objects <Data> <Array Qty="0006" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0004600A03FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0004180201FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0004180202FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0004180203FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0004" /> <OctetString Value="0004180204FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data>	PASSED
(28)	.capture_period <Data> <DoubleLongUnsigned Value="00000E10" /> </Data>	PASSED

(29) .sort_method	PASSED
<Data>	
<Enum Value="04" />	
</Data>	
(30) .sort_object	PASSED
<Data>	
<Structure Qty="0004" >	
<LongUnsigned Value="0008" />	
<OctetString Value="0000010000FF" />	
<Integer Value="02" />	
<LongUnsigned Value="0000" />	
</Structure>	
</Data>	
(31) .entries_in_use	PASSED
<Data>	
<DoubleLongUnsigned Value="0000000D" />	
</Data>	
(32) .profile_entries	PASSED
<Data>	
<DoubleLongUnsigned Value="000001A7" />	
</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	PASSED
Earliest date: 02-MAY-2022 00:00:28, latest date: 02-MAY-2022 00:00:29	
Middle date: 02-MAY-2022 00:00:29	
(3) .capture_objects	PASSED
<Data>	
<Array Qty="0002" >	
<Structure Qty="0004" >	
<LongUnsigned Value="0008" />	
<OctetString Value="0000010000FF" />	
<Integer Value="02" />	
<LongUnsigned Value="0000" />	
</Structure>	
<Structure Qty="0004" >	
<LongUnsigned Value="0001" />	
<OctetString Value="0001600B04FF" />	
<Integer Value="02" />	
<LongUnsigned Value="0000" />	
</Structure>	
</Array>	
</Data>	
(4) .capture_period	PASSED
<Data>	
<DoubleLongUnsigned Value="00000000" />	
</Data>	
(5) .sort_method	PASSED
<Data>	
<Enum Value="01" />	
</Data>	
(6) .sort_object	PASSED
<Data>	
<Structure Qty="0004" >	
<LongUnsigned Value="0000" />	
<OctetString Value="000000000000" />	
<Integer Value="00" />	
<LongUnsigned Value="0000" />	
</Structure>	
</Data>	
(7) .entries_in_use	PASSED
<Data>	
<DoubleLongUnsigned Value="00000006" />	
</Data>	
(8) .profile_entries	PASSED

<pre> <Data> <DoubleLongUnsigned Value="0000000A" /> </Data> </pre>	
<pre> Mngmt Get M-Bus Master Control log object 2 0-2:24.5.0.255 (@1952) (9) .logical_name <Data> <OctetString Value="0002180500FF" /> </Data> </pre>	PASSED
<pre> (10) .buffer Earliest date: 02-MAY-2022 00:00:29, latest date: 02-MAY-2022 00:00:31 Middle date: 02-MAY-2022 00:00:30 </pre>	PASSED
<pre> (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> </pre>	PASSED
<pre> (12) .capture_period <Data> <DoubleLongUnsigned Value="00000000" /> </Data> </pre>	PASSED
<pre> (13) .sort_method <Data> <Enum Value="01" /> </Data> </pre>	PASSED
<pre> (14) .sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0000" /> <OctetString Value="000000000000" /> <Integer Value="00" /> <LongUnsigned Value="0000" /> </Structure> </Data> </pre>	PASSED
<pre> (15) .entries_in_use <Data> <DoubleLongUnsigned Value="00000006" /> </Data> </pre>	PASSED
<pre> (16) .profile_entries <Data> <DoubleLongUnsigned Value="0000000A" /> </Data> </pre>	PASSED
<pre> Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1963) (17) .logical_name <Data> <OctetString Value="0003180500FF" /> </Data> </pre>	PASSED
<pre> (18) .buffer Earliest date: 02-MAY-2022 00:00:31, latest date: 02-MAY-2022 00:00:32 Middle date: 02-MAY-2022 00:00:32 </pre>	PASSED
<pre> (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" > </pre>	PASSED

	<pre> <LongUnsigned Value="0001" /> <OctetString Value="0003600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data> (20) .capture_period PASSED <Data> <DoubleLongUnsigned Value="00000000" /> </Data> (21) .sort_method PASSED <Data> <Enum Value="01" /> </Data> (22) .sort_object PASSED <Data> <Structure Qty="0004" > <LongUnsigned Value="0000" /> <OctetString Value="000000000000" /> <Integer Value="00" /> <LongUnsigned Value="0000" /> </Structure> </Data> (23) .entries_in_use PASSED <Data> <DoubleLongUnsigned Value="00000006" /> </Data> (24) .profile_entries PASSED <Data> <DoubleLongUnsigned Value="0000000A" /> </Data> Mngmt Get M-Bus Master Control log object 4 0-4:24.5.0.255 (@1974) (25) .logical_name PASSED <Data> <OctetString Value="0004180500FF" /> </Data> (26) .buffer PASSED Earliest date: 02-MAY-2022 00:00:33, latest date: 02-MAY-2022 00:00:34 Middle date: 02-MAY-2022 00:00:33 (27) .capture_objects PASSED <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0004600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data> (28) .capture_period PASSED <Data> <DoubleLongUnsigned Value="00000000" /> </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> </pre>
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Mngmt Get M-Bus Master Disconnect control object 2 0-2:24.4.0.255 (@1890)		
(5)	.logical_name	PASSED
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(6)	.output_state	PASSED
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(7)	.control_state	PASSED
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(8)	.control_mode	PASSED
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Mngmt Get M-Bus Master Disconnect control object 3 0-3:24.4.0.255 (@1898)		
(9)	.logical_name	PASSED
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	</Data>	
(10)	.output_state	PASSED
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(11)	.control_state	PASSED
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(12)	.control_mode	PASSED
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Mngmt Get M-Bus Master Disconnect control object 4 0-4:24.4.0.255 (@1906)		
(13)	.logical_name	PASSED
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(14)	.output_state	PASSED
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(16)	.control_mode	PASSED
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Mngmt Get M-Bus Disconnect control scheduler 0-1:15.0.1.255 (@1914)		
(17)	.logical_name	PASSED
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(18)	.executed_script	PASSED
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(20) .execution_time PASSED
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Mngmt Get M-Bus Disconnecter script table 0-1:10.0.106.255 (@1920)
(21) .logical_name PASSED
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(22) .scripts PASSED
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```

</_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 = '\DDSD285'
    IDISDeviceType = 102
    IDISFunctionType = [Extension_D,Extension_L,Extension_M]
    SerialNr = 99710723
    IPVersion = IPv6
    DataLinkLayer = G3
    EUI64Address = "0000000099710723"
    ConsumerInformationPush = FALSE
    SMSSupported = FALSE
    ClipCallSupported = FALSE
}

TestOptions = {
}

ObjectModel = {
    // Optional objects implemented
    OptionalObjects = '\
    + '1-0:0.9.1.255|1,' // Local Time (@86)
    + '1-0:0.9.2.255|1,' // Local Date (@90)
    + '1-1:0.2.0.255|1,' // Active firmware identifier 1 (@420)
    + '1-1:0.2.8.255|1,' // Active firmware signature 1 (@424)
    + '1-0:9.8.0.255|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)

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+ '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="07E60614FF120000FF8000FF" /></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>'
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+'    <OctetString Value="FFFF0304FF" />'
+'    <Unsigned Value="02" />'
+'  </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0019" />'
+'   <OctetString Value="FFFF0305FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001A" />'
+'   <OctetString Value="FFFF0306FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001B" />'
+'   <OctetString Value="FFFF0307FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001C" />'
+'   <OctetString Value="FFFF0308FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001D" />'
+'   <OctetString Value="FFFF0309FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001E" />'
+'   <OctetString Value="FFFF030AFF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' </Array>'
+' </Data>'
+}
}

```

```

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

    ImageTransfer = {
        ImageIdentifier =
'303230333131323830393230484D53313658323630303047335030303049444953303023232323232323233039
313041353242313546354535333242413042384234363935394334413935444304132'
        ImageFileName = '\HLY- Single-phase-image.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 = 3000
}

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 = 10000
  }
}

```

```

InterFrameTimeout      = 400
ResponseTimeout        = 10000
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:   484C596675F17703
Run number:         1880

```