

# Final Interoperability Test Report

FIT #: **40**  
 Date: 12/06/2019  
 Location: DNV-GL,Arnhem, Netherlands  
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## APPLICANT

Company: Ningbo Sanxing Smart Electric Co., Ltd

Address: No. 16, Fengwan Road, Cicheng Town, Jiangbei District, Ningbo, China

## DEVICE

Device type	<b>S34U18 CT</b>	
<i>Type indication on MID certificate</i>		<i>MID Certificate No.</i>
S34U18 CT		1302-19
<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	341	BFC18D5882976F2087BC007B67CDC246
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input type="checkbox"/>	0051	<input type="checkbox"/>
<i>General information about the device</i>		

FIRMWARE VERSIONS TESTED				<i>Final Interoperability Test No. 40</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	E.S34U18.SE.00353 1.V1.00.02			Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #40

Device:S34U18 CT

DNV-GL,Arnhem, Netherlands, 12/06/2019

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FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	E.S34U18.SE.00353 1.V1.00.02			40	Passed

TEST REPORT - Firmware No. 1		
Test	Verdict	Remark
Connect and release	Passed	
All Device IDs	Passed	
COSEM logical device name	Passed	
SAP assignment	Passed	
FW version and signature	Passed	
All Device ID's	Passed	
Broadcast Date and time	Passed	
Broadcast Special Days Table	Passed	
Event logs	Passed	
Billing data period 1	Passed	
M-Bus Channel Setup	Passed	
M-Bus Results	Passed	
M-Bus Devices IDs	Passed	
M-Bus profiles	Passed	
M-Bus Load profiles	Passed	
M-Bus control logs	Passed	
M-Bus Disconnect log	Passed	
FIT Push	Passed	
FIT Miscellaneous	Passed	
Optical Port Connectivity	Passed	
Consumer Information Interface	Passed	
<b>FIT Conformance Test Report</b>		
<pre> ***** IDIS Conformance test report 12-JUN-2019 13:37:32 iCTT2 Package 2, Edition 2.0, Revision 1 (134) Licensed to: KEMA-IDIS Cert. Tester: Bas Roelofsen *****  ***** * Identification * *****  Manufacturer = {   Name = '\Ningbo Sanxing Smart Electric Co.,Ltd'   ThreeLettersId = '\AUX' } DeviceUnderTest = {   Type = '\S34U18'   IDISDeviceType = 103   IDISFunctionType = [EXTENSION_L, EXTENSION_M]   SerialNr = 19050001   IPVersion = IPV4   DataLinkLayer = GPRS   ConsumerInformationPush = FALSE   SMSSupported = FALSE   ClipCallSupported = FALSE }  Active firmware identifier (1-0:0.2.0.255) = \E.S34U18.SE.003531.V1.00.02  ***** * Summary * *****  PASSED                257 FAILED                0 DISABLED              0 INAPPLICABLE         16 INCONCLUSIVE         0 FATAL                 0 </pre>		

TOTAL	273	
*****		
Test Case 1 : Connect and release, 4 item(s)		
*****		
(1) Connect Public		PASSED
(2) Release Public		PASSED
(3) Connect Management		PASSED
(4) Release Management		PASSED
*****		
Test Case 2 : Read Device IDs, 12 item(s)		
*****		
Mngmt Get Device ID 1, manufacturing number 0-0:96.1.0.255 (@46)		
(1) .logical_name		PASSED
<Data>		
<OctetString Value="0000600100FF" />		
</Data>		
(2) .value		PASSED
<Data>		
<OctetString Value="\19050001" />		
</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="\00000002" />		
</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="\00000003" />		
</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="\00000004" />		
</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="\00000005" />		
</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="\Device ID6" />		
</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="\AUX1030619050001" />
    </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="\AUX1030619050001" />
        </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="\E.S34U18.SE.003531.V1.00.02" />
    </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="76E3" />
    </Data>

Mngmt Get Active firmware identifier 1 1-1:0.2.0.255 (@420)
(5) .logical_name
INAPPLICABLE
    Optional object is not implemented
(6) .value
INAPPLICABLE
    Optional object is not implemented

Mngmt Get Active firmware signature 1 1-1:0.2.8.255 (@424)
(7) .logical_name
INAPPLICABLE
    Optional object is not implemented
(8) .value
INAPPLICABLE
    Optional object is not implemented

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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="07E3060C030A0000FF8000FF" />
    </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="07E3060C030A0000FFFF8880" />
    </Data>

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

Pre Set Special Days Table 0-0:11.0.0.255 (@125)
(1) .entries                                  PASSED
    <Data>
        <Array Qty="001E" >
            <Structure Qty="0003" >
                <LongUnsigned Value="0001" />
                <OctetString Value="FFFF0101FF" />
                <Unsigned Value="02" />
            </Structure>
            <Structure Qty="0003" >
                <LongUnsigned Value="0001" />
                <OctetString Value="FFFF0102FF" />
                <Unsigned Value="02" />
            </Structure>
            <Structure Qty="0003" >
                <LongUnsigned Value="0001" />
                <OctetString Value="FFFF0103FF" />
                <Unsigned Value="02" />
            </Structure>
            <Structure Qty="0003" >
                <LongUnsigned Value="0001" />
                <OctetString Value="FFFF0104FF" />
                <Unsigned Value="02" />
            </Structure>
            <Structure Qty="0003" >
                <LongUnsigned Value="0001" />
                <OctetString Value="FFFF0105FF" />
                <Unsigned Value="02" />
            </Structure>
            <Structure Qty="0003" >
                <LongUnsigned Value="0001" />
                <OctetString Value="FFFF0106FF" />
                <Unsigned Value="02" />
            </Structure>
        </Array>
    </Data>

```

```

    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0107FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0108FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0109FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF010AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0201FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0202FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0203FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0204FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0205FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0206FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0207FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0208FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0209FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF020AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >

```

```

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

```

```

*****
Test Case 9 : Get Special Days, 1 item(s)
*****

```

```

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

```

PASSED

```

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

```



```

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

```

```

    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0208FF" />
    <Unsigned Value="02" />
  </Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF020AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0301FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0302FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0305FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0306FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0307FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0308FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0309FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF030AFF" />
  <Unsigned Value="02" />
</Structure>
</Array>
</Data>

```

```

*****
Test Case 10 : Read Event Log Buffers, 20 item(s)
*****

```

(1) .logical_name	
INAPPLICABLE	
Object is not required according to OM and/or extensions	
(2) .buffer	
INAPPLICABLE	
Object is not required according to OM and/or extensions	
(3) .entries_in_use	
INAPPLICABLE	
Object is not required according to OM and/or extensions	
(4) .profile_entries	
INAPPLICABLE	
Object is not required according to OM and/or extensions	
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: 12-JAN-2019 12:18:22, latest date: 12-JUN-2019 13:37:25	
Middle date: 12-JUN-2019 13:25:15	
(7) .entries_in_use	PASSED
<Data>	
<DoubleLongUnsigned Value="0000001E" />	
</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: 12-JUN-2019 13:29:01, latest date: 12-JUN-2019 13:30:13	
Middle date: 12-JUN-2019 13:29:46	
(11) .entries_in_use	PASSED
<Data>	
<DoubleLongUnsigned Value="00000008" />	
</Data>	
(12) .profile_entries	PASSED
<Data>	
<DoubleLongUnsigned Value="00000064" />	
</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: 12-JAN-2019 12:18:41, latest date: 12-JUN-2019 13:35:58	
Middle date: 12-JUN-2019 13:24:10	
(15) .entries_in_use	PASSED
<Data>	
<DoubleLongUnsigned Value="00000032" />	
</Data>	
(16) .profile_entries	PASSED
<Data>	
<DoubleLongUnsigned Value="00000064" />	
</Data>	
Mngmt Get Power Quality Log 0-0:99.98.4.255 (@1340)	
(17) .logical_name	PASSED
<Data>	
<OctetString Value="0000636204FF" />	
</Data>	
(18) .buffer	PASSED
Earliest date: 12-JAN-2019 12:18:52, latest date: 12-JUN-2019 13:30:34	
Middle date: 12-JUN-2019 13:28:23	
(19) .entries_in_use	PASSED



<pre>                 &lt;Data&gt;                 &lt;DoubleLongUnsigned Value="00000005" /&gt;             &lt;/Data&gt; (8) .profile_entries                 &lt;Data&gt;                 &lt;DoubleLongUnsigned Value="0000000D" /&gt;             &lt;/Data&gt; </pre>	PASSED
<p>*****                  Test Case 12 : Ext. M - M-Bus Setup LGZ G350, 52 item(s)                  *****</p>	
<pre> Mngmt Get M-Bus master port setup 1 0-0:24.6.0.255 (@1566) (1) .logical_name     &lt;Data&gt;         &lt;OctetString Value="0000180600FF" /&gt;     &lt;/Data&gt; (2) .comm_speed     &lt;Data&gt;         &lt;Enum Value="03" /&gt;     &lt;/Data&gt; </pre>	PASSED
<pre> 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 </pre>	
<pre> Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1574) (5) .logical_name     &lt;Data&gt;         &lt;OctetString Value="0001180100FF" /&gt;     &lt;/Data&gt; (6) .mbus_port_reference     &lt;Data&gt;         &lt;OctetString Value="0000180600FF" /&gt;     &lt;/Data&gt; (7) .capture_definition     &lt;Data&gt;         &lt;Array Qty="0002" &gt;             &lt;Structure Qty="0002" &gt;                 &lt;OctetString Value="\L" /&gt;                 &lt;OctetString Value="933A" /&gt;             &lt;/Structure&gt;             &lt;Structure Qty="0002" &gt;                 &lt;OctetString Value="8940" /&gt;                 &lt;OctetString Value="FD1A" /&gt;             &lt;/Structure&gt;         &lt;/Array&gt;     &lt;/Data&gt; (8) .capture_period     &lt;Data&gt;         &lt;DoubleLongUnsigned Value="00000E10" /&gt;     &lt;/Data&gt; (9) .primary_address     &lt;Data&gt;         &lt;Unsigned Value="01" /&gt;     &lt;/Data&gt; (10) .identification_number     &lt;Data&gt;         &lt;DoubleLongUnsigned Value="00293809" /&gt;     &lt;/Data&gt; (11) .manufacturer_id     &lt;Data&gt;         &lt;LongUnsigned Value="19AC" /&gt;     &lt;/Data&gt; (12) .version     &lt;Data&gt;         &lt;Unsigned Value="02" /&gt;     &lt;/Data&gt; (13) .device_type </pre>	PASSED



</Data>	
Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1618)	
(29) .logical_name	PASSED
<pre> &lt;Data&gt;   &lt;OctetString Value="0003180100FF" /&gt; &lt;/Data&gt; </pre>	
(30) .mbus_port_reference	PASSED
<pre> &lt;Data&gt;   &lt;OctetString Value="0000180600FF" /&gt; &lt;/Data&gt; </pre>	
(31) .capture_definition	PASSED
<pre> &lt;Data&gt;   &lt;Array Qty="0002" &gt;     &lt;Structure Qty="0002" &gt;       &lt;OctetString Value="\L" /&gt;       &lt;OctetString Value="933A" /&gt;     &lt;/Structure&gt;     &lt;Structure Qty="0002" &gt;       &lt;OctetString Value="8940" /&gt;       &lt;OctetString Value="FD1A" /&gt;     &lt;/Structure&gt;   &lt;/Array&gt; &lt;/Data&gt; </pre>	
(32) .capture_period	PASSED
<pre> &lt;Data&gt;   &lt;DoubleLongUnsigned Value="00000E10" /&gt; &lt;/Data&gt; </pre>	
(33) .primary_address	PASSED
<pre> &lt;Data&gt;   &lt;Unsigned Value="03" /&gt; &lt;/Data&gt; </pre>	
(34) .identification_number	PASSED
<pre> &lt;Data&gt;   &lt;DoubleLongUnsigned Value="00293812" /&gt; &lt;/Data&gt; </pre>	
(35) .manufacturer_id	PASSED
<pre> &lt;Data&gt;   &lt;LongUnsigned Value="19AC" /&gt; &lt;/Data&gt; </pre>	
(36) .version	PASSED
<pre> &lt;Data&gt;   &lt;Unsigned Value="02" /&gt; &lt;/Data&gt; </pre>	
(37) .device_type	PASSED
<pre> &lt;Data&gt;   &lt;Unsigned Value="03" /&gt; &lt;/Data&gt; </pre>	
(38) .access_number	PASSED
<pre> &lt;Data&gt;   &lt;Unsigned Value="86" /&gt; &lt;/Data&gt; </pre>	
(39) .status	PASSED
<pre> &lt;Data&gt;   &lt;Unsigned Value="00" /&gt; &lt;/Data&gt; </pre>	
(40) .alarm	PASSED
<pre> &lt;Data&gt;   &lt;Unsigned Value="00" /&gt; &lt;/Data&gt; </pre>	
Mngmt Get M-Bus client channel 4 0-4:24.1.0.255 (@1640)	
(41) .logical_name	PASSED
<pre> &lt;Data&gt;   &lt;OctetString Value="0004180100FF" /&gt; &lt;/Data&gt; </pre>	
(42) .mbus_port_reference	PASSED
<pre> &lt;Data&gt;   &lt;OctetString Value="0000180600FF" /&gt; &lt;/Data&gt; </pre>	
(43) .capture_definition	PASSED
<pre> &lt;Data&gt;   &lt;Array Qty="0002" &gt; </pre>	

	<pre>                 &lt;Structure Qty="0002" &gt;                 &lt;OctetString Value="\L" /&gt;                 &lt;OctetString Value="933A" /&gt;             &lt;/Structure&gt;             &lt;Structure Qty="0002" &gt;                 &lt;OctetString Value="8940" /&gt;                 &lt;OctetString Value="FD1A" /&gt;             &lt;/Structure&gt;         &lt;/Array&gt;     &lt;/Data&gt; (44) .capture_period PASSED     &lt;Data&gt;         &lt;DoubleLongUnsigned Value="00000E10" /&gt;     &lt;/Data&gt; (45) .primary_address PASSED     &lt;Data&gt;         &lt;Unsigned Value="04" /&gt;     &lt;/Data&gt; (46) .identification_number PASSED     &lt;Data&gt;         &lt;DoubleLongUnsigned Value="00293811" /&gt;     &lt;/Data&gt; (47) .manufacturer_id PASSED     &lt;Data&gt;         &lt;LongUnsigned Value="19AC" /&gt;     &lt;/Data&gt; (48) .version PASSED     &lt;Data&gt;         &lt;Unsigned Value="02" /&gt;     &lt;/Data&gt; (49) .device_type PASSED     &lt;Data&gt;         &lt;Unsigned Value="03" /&gt;     &lt;/Data&gt; (50) .access_number PASSED     &lt;Data&gt;         &lt;Unsigned Value="C3" /&gt;     &lt;/Data&gt; (51) .status PASSED     &lt;Data&gt;         &lt;Unsigned Value="00" /&gt;     &lt;/Data&gt; (52) .alarm PASSED     &lt;Data&gt;         &lt;Unsigned Value="00" /&gt;     &lt;/Data&gt; </pre>
<p>*****                  Test Case 13 : Ext. M - M-Bus Results uncorrected Vol. &amp; 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 PASSED     &lt;Data&gt;         &lt;OctetString Value="0001180201FF" /&gt;     &lt;/Data&gt; (2) .value PASSED     &lt;Data&gt;         &lt;DoubleLongUnsigned Value="00000DD2" /&gt;     &lt;/Data&gt; (3) .scaler_unit PASSED     &lt;Data&gt;         &lt;Structure Qty="0002" &gt;             &lt;Integer Value="FD" /&gt;             &lt;Enum Value="0D" /&gt;         &lt;/Structure&gt;     &lt;/Data&gt; (4) .status PASSED     &lt;Data&gt;         &lt;Unsigned Value="00" /&gt;     &lt;/Data&gt; (5) .capture_time PASSED     &lt;Data&gt; </pre>



	<OctetString Value="07E3010C060C1514FFFFC400" /> </Data>	
Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1670)		
(6) .logical_name	<Data> <OctetString Value="0001180202FF" /> </Data>	PASSED
(7) .value	<Data> <DoubleLongUnsigned Value="91CF1201" /> </Data>	PASSED
(8) .scaler_unit	<Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data>	PASSED
(9) .status	<Data> <Unsigned Value="00" /> </Data>	PASSED
(10) .capture_time	<Data> <OctetString Value="07E3010C060C1514FFFFC400" /> </Data>	PASSED
Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1694)		
(11) .logical_name	<Data> <OctetString Value="0002180201FF" /> </Data>	PASSED
(12) .value	<Data> <DoubleLongUnsigned Value="00000A0C" /> </Data>	PASSED
(13) .scaler_unit	<Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data>	PASSED
(14) .status	<Data> <Unsigned Value="00" /> </Data>	PASSED
(15) .capture_time	<Data> <OctetString Value="07E3010C060C1515FFFFC400" /> </Data>	PASSED
Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1702)		
(16) .logical_name	<Data> <OctetString Value="0002180202FF" /> </Data>	PASSED
(17) .value	<Data> <DoubleLongUnsigned Value="A1F61201" /> </Data>	PASSED
(18) .scaler_unit	<Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data>	PASSED
(19) .status	<Data> <Unsigned Value="00" /> </Data>	PASSED

(20)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E3010C060C1515FFFFFFC400" />	
	</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="00000D1B" />	
	</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="07E3010C060C1516FFFFFFC400" />	
	</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="B11D1301" />	
	</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="07E3010C060C1516FFFFFFC400" />	
	</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="00000985" />	
	</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="07E3010C060C1517FFFC400" />
    </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="C1441301" />
    </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="07E3010C060C1517FFFC400" />
    </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: 12-JAN-2019 13:00:00, latest date: 12-JUN-2019 14:00:00
    Middle date: 12-APR-2019 14:00:00
(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" />
            </Structure>
        </Array>
    </Data>

```

```

    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
  <Structure Qty="0004" >
    <LongUnsigned Value="0004" />
    <OctetString Value="0001180202FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
  <Structure Qty="0004" >
    <LongUnsigned Value="0004" />
    <OctetString Value="0001180203FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
  <Structure Qty="0004" >
    <LongUnsigned Value="0004" />
    <OctetString Value="0001180204FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
  </Structure>
</Array>
</Data>
(4) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(5) .sort_method PASSED
  <Data>
    <Enum Value="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="00000006" />
  </Data>
(8) .profile_entries PASSED
  <Data>
    <DoubleLongUnsigned Value="000003E8" />
  </Data>

Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1849)
(9) .logical_name PASSED
  <Data>
    <OctetString Value="0002180300FF" />
  </Data>
(10) .buffer PASSED
  Earliest date: 12-JAN-2019 13:00:00, latest date: 12-JUN-2019 14:00:00
  Middle date: 12-APR-2019 14:00:00
(11) .capture_objects PASSED
  <Data>
    <Array Qty="0006" >
      <Structure Qty="0004" >
        <LongUnsigned Value="0008" />
        <OctetString Value="0000010000FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0001" />
        <OctetString Value="0002600A03FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>

```

```

        <LongUnsigned Value="0004" />
        <OctetString Value="0002180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
</Structure>
<Structure Qty="0004" >
    <LongUnsigned Value="0004" />
    <OctetString Value="0002180202FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
</Structure>
<Structure Qty="0004" >
    <LongUnsigned Value="0004" />
    <OctetString Value="0002180203FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
</Structure>
<Structure Qty="0004" >
    <LongUnsigned Value="0004" />
    <OctetString Value="0002180204FF" />
    <Integer Value="02" />
    <LongUnsigned Value="0000" />
</Structure>
</Array>
</Data>
(12) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(13) .sort_method PASSED
    <Data>
        <Enum Value="01" />
    </Data>
(14) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0008" />
            <OctetString Value="0000010000FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(15) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000006" />
    </Data>
(16) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000003E8" />
    </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: 12-JAN-2019 13:00:00, latest date: 12-JUN-2019 14:00:00
    Middle date: 12-APR-2019 14:00:00
(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>
        </Array>
    </Data>

```

```

        </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="01" />
    </Data>
(22) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0008" />
            <OctetString Value="0000010000FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(23) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000006" />
    </Data>
(24) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000003E8" />
    </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: 12-JAN-2019 13:00:00, latest date: 12-JUN-2019 14:00:00
    Middle date: 12-APR-2019 14:00:00
(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" />
            </Structure>
        </Array>
    </Data>

```

```

        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180202FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180203FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
    <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0004180204FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
</Array>
</Data>
(28) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(29) .sort_method PASSED
    <Data>
        <Enum Value="01" />
    </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="00000006" />
    </Data>
(32) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000003E8" />
    </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: 12-JUN-2019 13:23:32, latest date: 12-JUN-2019 13:23:44
    Middle date: 12-JUN-2019 13:23:40
(3) .capture_objects PASSED
    <Data>
        <Array Qty="0002" >
            <Structure Qty="0004" >
                <LongUnsigned Value="0008" />
                <OctetString Value="0000010000FF" />
            </Structure>
        </Array>
    </Data>

```



	<pre>           &lt;Integer Value="02" /&gt;           &lt;LongUnsigned Value="0000" /&gt;         &lt;/Structure&gt;         &lt;Structure Qty="0004" &gt;           &lt;LongUnsigned Value="0001" /&gt;           &lt;OctetString Value="0001600B04FF" /&gt;           &lt;Integer Value="02" /&gt;           &lt;LongUnsigned Value="0000" /&gt;         &lt;/Structure&gt;       &lt;/Array&gt;     &lt;/Data&gt;   (4) .capture_period PASSED     &lt;Data&gt;       &lt;DoubleLongUnsigned Value="00000000" /&gt;     &lt;/Data&gt;   (5) .sort_method PASSED     &lt;Data&gt;       &lt;Enum Value="01" /&gt;     &lt;/Data&gt;   (6) .sort_object PASSED     &lt;Data&gt;       &lt;Structure Qty="0004" &gt;         &lt;LongUnsigned Value="0000" /&gt;         &lt;OctetString Value="000700000008" /&gt;         &lt;Integer Value="00" /&gt;         &lt;LongUnsigned Value="0000" /&gt;       &lt;/Structure&gt;     &lt;/Data&gt;   (7) .entries_in_use PASSED     &lt;Data&gt;       &lt;DoubleLongUnsigned Value="00000006" /&gt;     &lt;/Data&gt;   (8) .profile_entries PASSED     &lt;Data&gt;       &lt;DoubleLongUnsigned Value="0000001E" /&gt;     &lt;/Data&gt;  Mngmt Get M-Bus Master Control log object 2 0-2:24.5.0.255 (@1952)   (9) .logical_name PASSED     &lt;Data&gt;       &lt;OctetString Value="0002180500FF" /&gt;     &lt;/Data&gt;   (10) .buffer PASSED     Earliest date: 12-JUN-2019 13:23:52, latest date: 12-JUN-2019 13:24:05     Middle date: 12-JUN-2019 13:24:01   (11) .capture_objects PASSED     &lt;Data&gt;       &lt;Array Qty="0002" &gt;         &lt;Structure Qty="0004" &gt;           &lt;LongUnsigned Value="0008" /&gt;           &lt;OctetString Value="0000010000FF" /&gt;           &lt;Integer Value="02" /&gt;           &lt;LongUnsigned Value="0000" /&gt;         &lt;/Structure&gt;         &lt;Structure Qty="0004" &gt;           &lt;LongUnsigned Value="0001" /&gt;           &lt;OctetString Value="0002600B04FF" /&gt;           &lt;Integer Value="02" /&gt;           &lt;LongUnsigned Value="0000" /&gt;         &lt;/Structure&gt;       &lt;/Array&gt;     &lt;/Data&gt;   (12) .capture_period PASSED     &lt;Data&gt;       &lt;DoubleLongUnsigned Value="00000000" /&gt;     &lt;/Data&gt;   (13) .sort_method PASSED     &lt;Data&gt;       &lt;Enum Value="01" /&gt;     &lt;/Data&gt;   (14) .sort_object PASSED     &lt;Data&gt;       &lt;Structure Qty="0004" &gt; </pre>
--	--

	<pre>                 &lt;LongUnsigned Value="0000" /&gt;                 &lt;OctetString Value="000800000009" /&gt;                 &lt;Integer Value="00" /&gt;                 &lt;LongUnsigned Value="0000" /&gt;             &lt;/Structure&gt;         &lt;/Data&gt;     (15) .entries_in_use                                     PASSED         &lt;Data&gt;             &lt;DoubleLongUnsigned Value="00000006" /&gt;         &lt;/Data&gt;     (16) .profile_entries                                   PASSED         &lt;Data&gt;             &lt;DoubleLongUnsigned Value="0000001E" /&gt;         &lt;/Data&gt;  Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1963)     (17) .logical_name                                     PASSED         &lt;Data&gt;             &lt;OctetString Value="0003180500FF" /&gt;         &lt;/Data&gt;     (18) .buffer   PASSED         Earliest date: 12-JUN-2019 13:24:12, latest date: 12-JUN-2019 13:24:25         Middle date: 12-JUN-2019 13:24:21     (19) .capture_objects                                   PASSED         &lt;Data&gt;             &lt;Array Qty="0002" &gt;                 &lt;Structure Qty="0004" &gt;                     &lt;LongUnsigned Value="0008" /&gt;                     &lt;OctetString Value="0000010000FF" /&gt;                     &lt;Integer Value="02" /&gt;                     &lt;LongUnsigned Value="0000" /&gt;                 &lt;/Structure&gt;                 &lt;Structure Qty="0004" &gt;                     &lt;LongUnsigned Value="0001" /&gt;                     &lt;OctetString Value="0003600B04FF" /&gt;                     &lt;Integer Value="02" /&gt;                     &lt;LongUnsigned Value="0000" /&gt;                 &lt;/Structure&gt;             &lt;/Array&gt;         &lt;/Data&gt;     (20) .capture_period                                     PASSED         &lt;Data&gt;             &lt;DoubleLongUnsigned Value="00000000" /&gt;         &lt;/Data&gt;     (21) .sort_method                                       PASSED         &lt;Data&gt;             &lt;Enum Value="01" /&gt;         &lt;/Data&gt;     (22) .sort_object                                       PASSED         &lt;Data&gt;             &lt;Structure Qty="0004" &gt;                 &lt;LongUnsigned Value="0000" /&gt;                 &lt;OctetString Value="00090000000A" /&gt;                 &lt;Integer Value="FF" /&gt;                 &lt;LongUnsigned Value="FFFF" /&gt;             &lt;/Structure&gt;         &lt;/Data&gt;     (23) .entries_in_use                                     PASSED         &lt;Data&gt;             &lt;DoubleLongUnsigned Value="00000006" /&gt;         &lt;/Data&gt;     (24) .profile_entries                                   PASSED         &lt;Data&gt;             &lt;DoubleLongUnsigned Value="0000001E" /&gt;         &lt;/Data&gt;  Mngmt Get M-Bus Master Control log object 4 0-4:24.5.0.255 (@1974)     (25) .logical_name                                     PASSED         &lt;Data&gt;             &lt;OctetString Value="0004180500FF" /&gt;         &lt;/Data&gt;     (26) .buffer   PASSED         Earliest date: 12-JUN-2019 13:24:31, latest date: 12-JUN-2019 13:24:43     </pre>
--	--

Middle date: 12-JUN-2019 13:24:39		
(27)	.capture_objects <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0004600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data>	PASSED
(28)	.capture_period <Data> <DoubleLongUnsigned Value="00000000" /> </Data>	PASSED
(29)	.sort_method <Data> <Enum Value="01" /> </Data>	PASSED
(30)	.sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0000" /> <OctetString Value="000AFFFFFFFF" /> <Integer Value="FF" /> <LongUnsigned Value="FFFF" /> </Structure> </Data>	PASSED
(31)	.entries_in_use <Data> <DoubleLongUnsigned Value="00000006" /> </Data>	PASSED
(32)	.profile_entries <Data> <DoubleLongUnsigned Value="0000001E" /> </Data>	PASSED
Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1989)		
(33)	.logical_name <Data> <OctetString Value="0000636203FF" /> </Data>	PASSED
(34)	.buffer Earliest date: 12-JAN-2019 12:21:19, latest date: 12-JAN-2019 12:21:23 Middle date: 12-JAN-2019 12:21:21	PASSED
(35)	.capture_objects <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0000600B03FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data>	PASSED
(36)	.capture_period <Data> <DoubleLongUnsigned Value="00000000" /> </Data>	PASSED

(37) .sort_method	PASSED
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(38) .sort_object	PASSED
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</Data>	
(39) .entries_in_use	PASSED
<Data>	
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(40) .profile_entries	PASSED
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</Data>	
*****	
Test Case 17 : Ext. M - M-Bus Disconnect, 22 item(s)	
*****	
Mngmt Get M-Bus Master Disconnect control object 1 0-1:24.4.0.255 (@1882)	
(1) .logical_name	PASSED
<Data>	
<OctetString Value="0001180400FF" />	
</Data>	
(2) .output_state	PASSED
<Data>	
<Boolean Value="00" />	
</Data>	
(3) .control_state	PASSED
<Data>	
<Enum Value="02" />	
</Data>	
(4) .control_mode	PASSED
<Data>	
<Enum Value="06" />	
</Data>	
Mngmt Get M-Bus Master Disconnect control object 2 0-2:24.4.0.255 (@1890)	
(5) .logical_name	PASSED
<Data>	
<OctetString Value="0002180400FF" />	
</Data>	
(6) .output_state	PASSED
<Data>	
<Boolean Value="00" />	
</Data>	
(7) .control_state	PASSED
<Data>	
<Enum Value="02" />	
</Data>	
(8) .control_mode	PASSED
<Data>	
<Enum Value="06" />	
</Data>	
Mngmt Get M-Bus Master Disconnect control object 3 0-3:24.4.0.255 (@1898)	
(9) .logical_name	PASSED
<Data>	
<OctetString Value="0003180400FF" />	
</Data>	
(10) .output_state	PASSED
<Data>	
<Boolean Value="00" />	
</Data>	
(11) .control_state	PASSED
<Data>	

	<Enum Value="02" />	
	</Data>	
(12)	.control_mode	PASSED
	<Data>	
	<Enum Value="06" />	
	</Data>	
	Mngmt Get M-Bus Master Disconnect control object 4 0-4:24.4.0.255 (@1906)	
(13)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0004180400FF" />	
	</Data>	
(14)	.output_state	PASSED
	<Data>	
	<Boolean Value="00" />	
	</Data>	
(15)	.control_state	PASSED
	<Data>	
	<Enum Value="02" />	
	</Data>	
(16)	.control_mode	PASSED
	<Data>	
	<Enum Value="06" />	
	</Data>	
	Mngmt Get M-Bus Disconnect control scheduler 0-1:15.0.1.255 (@1914)	
(17)	.logical_name	PASSED
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	<OctetString Value="00010F0001FF" />	
	</Data>	
(18)	.executed_script	PASSED
	<Data>	
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	<OctetString Value="00010A006AFF" />	
	<LongUnsigned Value="0009" />	
	</Structure>	
	</Data>	
(19)	.type	PASSED
	<Data>	
	<Enum Value="01" />	
	</Data>	
(20)	.execution_time	PASSED
	<Data>	
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	<Structure Qty="0002" >	
	<OctetString Value="FFFFFFFF" />	
	<OctetString Value="FFFFFFFFFFFF" />	
	</Structure>	
	</Array>	
	</Data>	
	Mngmt Get M-Bus Disconnect script table 0-1:10.0.106.255 (@1920)	
(21)	.logical_name	PASSED
	<Data>	
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	</Data>	
(22)	.scripts	PASSED
	<Data>	
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	<Array Qty="0001" >	
	<Structure Qty="0005" >	
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	<OctetString Value="0001180400FF" />	
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	<Enum Value="02" />	
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```

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  <Array Qty="0001" >
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  <Array Qty="0001" >

```

```

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  </Array>
</Structure>
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```

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</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
- INAPPLICABLE  
 Extension D not available
- (2) Load profile with period 1 DST ambiguity PASSED
- (3) Load profile power down withing one period PASSED
- (4) Load profile power down over two periods PASSED

\*\*\*\*\*  
 \* CTI \*  
 \*\*\*\*\*

```

//*****
//* CTI Sanxing *
//* *
//* *
//* 2019-06-12 *
//* *
//*****

```

// Conformance Test Information (CTI) Template

```

Manufacturer = {
    Name = '\Ningbo Sanxing Smart Electric Co.,Ltd'
    ThreeLettersId = 'AUX'
}

```



```

DeviceUnderTest = {
  Type = '\S34U18'
  IDISDeviceType = 103
  IDISFunctionType = [Extension_L, Extension_M]
  SerialNr = 19050001
  IPVersion = IPv4
  DataLinkLayer = GPRS
  ConsumerInformationPush = FALSE
  SMSSupported = FALSE
  ClipCallSupported = FALSE
}

TestOptions = {
  DUTTelNr = '\+31658021896'
  DUTIPAddress = '\5.172.221.18'
  //PushDestination = '\[fe80:0:0:0:781d:ff:fe00:0]:61616'
}

ObjectModel = {
  // Optional objects implemented
  OptionalObjects = ''

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

  InstanceExtraInfo = {
    // Current association (@9)
    LogicalName = '0-0:40.0.0.255'
    ClassId = 15
    AttributeExtraInfo = {
      // secret
      AttributeId = 7
      AccessRights = [SET]
      SetData = '\<Data><OctetString Value="3132333435363738" /></Data>' // set
      data for secret.
    }
  }

  InstanceExtraInfo = {
    LogicalName = '0-1:96.3.10.255'
    ClassId = 70
    AttributeExtraInfo = {
      AttributeId = 4
      AccessRights = [GET,SET]
    }
  }

  InstanceExtraInfo = {
    // Predefined Scripts - Image activation (@407)
    LogicalName = '0-0:10.0.107.255'
    ClassId = 9
    AttributeExtraInfo = {
      // scripts
      AttributeId = 2
      AccessRights = [GET]
    }
  }

  InstanceExtraInfo = {

```

```

// Set special days to 30 entries
LogicalName = '0-0:11.0.0.255'
ClassId = 11
AttributeExtraInfo = {
  AttributeId = 2
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```

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+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0302FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0303FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0304FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0305FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0306FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0307FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0001" />'
+'   <OctetString Value="FFFF0308FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'

```

```

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

InstanceExtraInfo = {
// YYYY MM DD DW HH MM SS
LogicalName = '0-0:1.0.0.255'
ClassId = 8
AttributeExtraInfo = {
AttributeId = 2
SetData = '\<Data><OctetString Value="07E3060C030A0000FF8000FF" /></Data>'
}
}
}

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

ImageTransfer = {
ImageIdentifier = '\E.S34U18.SE.003531.V1.00.02'
ImageFileName = '\E.S34U18.SE.003531.V1.00.02.bin'
Timeout = 150000
}

PushTimeout = 60000
MinInterWPDUFramesDelay = 1100
ProfilePeriodsQty = 10
CaptureDelay = 15000
ClipCallDuration = 20000

AutoConnect = {
Repetitions = 0
RepetitionDelay = 0
}

PushSetup = {
NumberOfRetries = 1
RepetitionDelay = 30
}

WakeUpDelay = 30000
DisconnectToSendSMSDelay = 10000
DataNotificationToDisconnectDelay = 4000
}

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 = 1200
        CipherringStyle = GENERAL
    }
}

LocalSecurityElements = {
    Public = {
        ContextName = LONG_NAMES
        MechanismName = LOWEST_LEVEL_SECURITY
        Policy = NO_SECURITY
    }
    Management = {
        ContextName = LONG_NAMES
        MechanismName = LOW_LEVEL_SECURITY
        Policy = NO_SECURITY
        Password = '\12345678'
    }
    PreEstablished = {
        Policy = NO_SECURITY
        ServerMaxReceivePduSize = 1200
        CipherringStyle = GENERAL
    }
}

SMSSecurityElements = {
    PreEstablished = {
        Policy = AUTHENTICATION_AND_ENCRYPTION
        ServerMaxReceivePduSize = 138
        CipherringStyle = GENERAL
    }
}

HDLCPProfile = {
    PhysicalLayer = {
        OpeningMode = MODE_E
        HdlcBaud = 9600
    }
    DataLinkLayer = {
        InactivityTimeout = 120000
        InterFrameTimeout = 1000
        ResponseTimeout = 4000
        DISCToNDMTimeout = 4000
        AddressingSchemes = [TWO_BYTES_ADDRESSING]
        ServerLowerMACAddress = 17
    }
}

TCPProfile = {
    ServerTCPPort = 4059
    ResponseTimeout = 30000
    ConnectTimeout = 5000
    DisconnectToConnectDelay = 3000
}

// END CTI_Template

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

TestMode:                TCP
Test Plan Signature:     BFC18D5882976F2087BC007B67CDC246
Object Model:           IDIS-S02-002 - object model Pack2 Ed2.0 - V2.28 (20170428)-FIT MBUS
Tests G350 (CorrectedAndValve status)-2017428.xlsx
DUT system title:       415558676122AE11
Run number:             341

```