

# Final Interoperability Test Report

FIT #: **37**  
 Date: 01/03/2019  
 Location: DNV-GL, Arnhem, Netherlands  
 Page 1 of 38

## APPLICANT

Company: Ningbo Sanxing Smart Electric Co., Ltd

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

| DEVICE                               |                                  |                                       |
|--------------------------------------|----------------------------------|---------------------------------------|
| Device type                          | <b>S12U16</b>                    |                                       |
| Type indication on MID certificate   |                                  | MID Certificate No.                   |
| S12U16                               |                                  | DNV-GL 1563-18                        |
| IDIS Specification reference         | DNV-GL IDIS Certification run No | Digital signature of the test report. |
| Package 2 ed. 2.0                    | 550                              | 2B1CD2CA4F054B84A215AA3E43F8FFA6      |
| First certification                  | IDIS Label                       | Modular device                        |
| <input checked="" type="checkbox"/>  | 0046                             | <input type="checkbox"/>              |
| General information about the device |                                  |                                       |
|                                      |                                  |                                       |

| FIRMWARE VERSIONS TESTED |                                 |              |              | Final Interoperability Test No. 37 |
|--------------------------|---------------------------------|--------------|--------------|------------------------------------|
| Firmware No.             | Firmware ID1                    | Firmware ID2 | Firmware ID3 | Verdict                            |
| 1                        | E.S12U16.SE.00337<br>3.010.V0.1 |              |              | Passed                             |
|                          |                                 |              |              |                                    |

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #37

Device:S12U16

DNV-GL, Arnhem, Netherlands, 01/03/2019

Page 2 of 38

| FIRMWARE VERSIONS HISTORY |                                 |              |              | Final Integration Test |         |
|---------------------------|---------------------------------|--------------|--------------|------------------------|---------|
| Firmware No.              | Firmware ID1                    | Firmware ID2 | Firmware ID3 | No.                    | Verdict |
| 1                         | E.S12U16.SE.00337<br>3.010.V0.1 |              |              | 37                     | 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 Wake up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Passed  |        |
| FIT Miscellaneous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Passed  |        |
| Optical Port Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Passed  |        |
| Consumer Information Interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Passed  |        |
| <b>FIT Conformance Test Report</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |        |
| <pre> ***** iDIS Conformance test report 01-MAR-2019 10:12:30 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 = '\S12U16'   IDISDeviceType = 102   IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M]   SerialNr = 19010105   IPVersion = IPV4   DataLinkLayer = GPRS   ConsumerInformationPush = FALSE   SMSSupported = FALSE   ClipCallSupported = FALSE }  Active firmware identifier (1-0:0.2.0.255) = \E.S12U16.SE.003373.010.V0.1  ***** * Summary * *****  PASSED                262 FAILED                0 DISABLED              0 INAPPLICABLE         11 INCONCLUSIVE          0 </pre> |         |        |

```

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="\19010105" />
    </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="\002" />
    </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="\003" />
    </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="\004" />
    </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="\005" />
    </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>

```

|                                                             |        |
|-------------------------------------------------------------|--------|
| </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="\AUX1020719010105" />                   |        |
| </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="\AUX1020719010105" />                   |        |
| </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.S12U16.SE.003373.010.V0.1" />        |        |
| </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="43A9" />                                |        |
| </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

    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
    <Data>
    <OctetString Value="07E3030105120000FF8000FF" />
    </Data>
    PASSED

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

    Mngmt Get Clock 0-0:1.0.0.255 (@75)
    (1) .time
    <Data>
    <OctetString Value="07E3030105120001FFFFC400" />
    </Data>
    PASSED

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

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

```

```

    <OctetString Value="FFFF0106FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0107FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0108FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0109FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF010AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0201FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0202FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0203FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0204FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0205FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0206FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0207FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0208FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0209FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF020AFF" />
    <Unsigned Value="02" />
  </Structure>

```

```

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

```

```

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

```

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

PASSED

```

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

```



```

    <OctetString Value="FFFF0103FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0104FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0105FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0106FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0107FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0108FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0109FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF010AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0201FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0202FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0203FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0204FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0205FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0206FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF0207FF" />
    <Unsigned Value="02" />
  </Structure>

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
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  <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>
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  <OctetString Value="FFFF0303FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF0304FF" />
  <Unsigned Value="02" />
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  <OctetString Value="FFFF0305FF" />
  <Unsigned Value="02" />
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<Structure Qty="0003" >
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  <Unsigned Value="02" />
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  <Unsigned Value="02" />
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  <OctetString Value="FFFF0309FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0001" />
  <OctetString Value="FFFF030AFF" />
  <Unsigned Value="02" />
</Structure>
</Array>
</Data>

```

```

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

```

Mngmt Get Disconnect Control Log 0-0:99.98.2.255 (@193)

|                                                                        |        |
|------------------------------------------------------------------------|--------|
| (1) .logical_name                                                      | PASSED |
| <Data>                                                                 |        |
| <OctetString Value="0000636202FF" />                                   |        |
| </Data>                                                                |        |
| (2) .buffer                                                            | PASSED |
| Earliest date: 28-FEB-2019 17:20:54, latest date: 28-FEB-2019 17:21:14 |        |
| Middle date: 28-FEB-2019 17:21:06                                      |        |
| (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: 28-JUN-2018 17:21:05, latest date: 01-MAR-2019 18:00:03 |        |
| Middle date: 28-FEB-2019 17:32:42                                      |        |
| (7) .entries_in_use                                                    | PASSED |
| <Data>                                                                 |        |
| <DoubleLongUnsigned Value="00000063" />                                |        |
| </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: 28-JUN-2018 17:21:08, latest date: 01-MAR-2019 10:06:40 |        |
| Middle date: 01-MAR-2019 07:05:05                                      |        |
| (11) .entries_in_use                                                   | PASSED |
| <Data>                                                                 |        |
| <DoubleLongUnsigned Value="00000022" />                                |        |
| </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: 28-FEB-2019 17:22:12, latest date: 01-MAR-2019 15:11:56 |        |
| Middle date: 28-FEB-2019 17:50:36                                      |        |
| (15) .entries_in_use                                                   | PASSED |
| <Data>                                                                 |        |
| <DoubleLongUnsigned Value="00000064" />                                |        |
| </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: 28-FEB-2019 17:22:56, latest date: 28-FEB-2019 17:33:12<br>Middle date: 28-FEB-2019 17:31:55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |  |
| (19) .entries_in_use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PASSED |  |
| <Data><br><DoubleLongUnsigned Value="00000009" /><br></Data>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |
| (20) .profile_entries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PASSED |  |
| <Data><br><DoubleLongUnsigned Value="00000064" /><br></Data>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |
| *****<br>Test Case 11 : Reading Data of Billing Period 1, 8 item(s)<br>*****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |
| Mngmt Get Data of billing period 1 0-0:98.1.0.255 (@158)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |  |
| (1) .logical_name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PASSED |  |
| <Data><br><OctetString Value="0000620100FF" /><br></Data>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |
| (2) .buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PASSED |  |
| Earliest date: 01-JUL-2018 00:00:00, latest date: 01-MAR-2019 00:00:00<br>Middle date: 01-NOV-2018 00:00:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |  |
| (3) .capture_objects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PASSED |  |
| <Data><br><Array Qty="0005" ><br><Structure Qty="0004" ><br><LongUnsigned Value="0008" /><br><OctetString Value="0000010000FF" /><br><Integer Value="02" /><br><LongUnsigned Value="0000" /><br></Structure><br><Structure Qty="0004" ><br><LongUnsigned Value="0003" /><br><OctetString Value="0100010801FF" /><br><Integer Value="02" /><br><LongUnsigned Value="0000" /><br></Structure><br><Structure Qty="0004" ><br><LongUnsigned Value="0003" /><br><OctetString Value="0100010802FF" /><br><Integer Value="02" /><br><LongUnsigned Value="0000" /><br></Structure><br><Structure Qty="0004" ><br><LongUnsigned Value="0003" /><br><OctetString Value="0100020801FF" /><br><Integer Value="02" /><br><LongUnsigned Value="0000" /><br></Structure><br><Structure Qty="0004" ><br><LongUnsigned Value="0003" /><br><OctetString Value="0100020802FF" /><br><Integer Value="02" /><br><LongUnsigned Value="0000" /><br></Structure><br></Array><br></Data> |        |  |
| (4) .capture_period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PASSED |  |
| <Data><br><DoubleLongUnsigned Value="00000000" /><br></Data>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |  |
| (5) .sort_method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PASSED |  |
| <Data><br><Enum Value="01" /><br></Data>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |  |
| (6) .sort_object                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PASSED |  |
| <Data><br><Structure Qty="0004" ><br><LongUnsigned Value="0008" /><br><OctetString Value="0000010000FF" /><br><Integer Value="02" /><br><LongUnsigned Value="0000" /><br></Structure>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |  |

```

        </Structure>
    </Data>
(7) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000009" />
    </Data>
(8) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000D" />
    </Data>

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

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

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

Mngmt Get M-Bus client channel 1 0-1:24.1.0.255 (@1574)
(5) .logical_name PASSED
    <Data>
        <OctetString Value="0001180100FF" />
    </Data>
(6) .mbus_port_reference PASSED
    <Data>
        <OctetString Value="0000180600FF" />
    </Data>
(7) .capture_definition PASSED
    <Data>
        <Array Qty="0004" >
            <Structure Qty="0002" >
                <OctetString Value="\L" />
                <OctetString Value="933A" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="8940" />
                <OctetString Value="FD1A" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="0000000000000000" />
                <OctetString Value="0000000000000000" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="0000000000000000" />
                <OctetString Value="0000000000000000" />
            </Structure>
        </Array>
    </Data>
(8) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(9) .primary_address PASSED
    <Data>
        <Unsigned Value="01" />
    </Data>
(10) .identification_number PASSED
    <Data>

```

```

    <DoubleLongUnsigned Value="00293809" />
  </Data>
(11) .manufacturer_id PASSED
  <Data>
    <LongUnsigned Value="19AC" />
  </Data>
(12) .version PASSED
  <Data>
    <Unsigned Value="02" />
  </Data>
(13) .device_type PASSED
  <Data>
    <Unsigned Value="03" />
  </Data>
(14) .access_number PASSED
  <Data>
    <Unsigned Value="7C" />
  </Data>
(15) .status PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>
(16) .alarm PASSED
  <Data>
    <Unsigned Value="00" />
  </Data>

Mngmt Get M-Bus client channel 2 0-2:24.1.0.255 (@1596)
(17) .logical_name PASSED
  <Data>
    <OctetString Value="0002180100FF" />
  </Data>
(18) .mbus_port_reference PASSED
  <Data>
    <OctetString Value="0000180600FF" />
  </Data>
(19) .capture_definition PASSED
  <Data>
    <Array Qty="0004" >
      <Structure Qty="0002" >
        <OctetString Value="\L" />
        <OctetString Value="933A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="8940" />
        <OctetString Value="FD1A" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
      <Structure Qty="0002" >
        <OctetString Value="0000000000000000" />
        <OctetString Value="0000000000000000" />
      </Structure>
    </Array>
  </Data>
(20) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(21) .primary_address PASSED
  <Data>
    <Unsigned Value="02" />
  </Data>
(22) .identification_number PASSED
  <Data>
    <DoubleLongUnsigned Value="00293810" />
  </Data>
(23) .manufacturer_id PASSED
  <Data>
    <LongUnsigned Value="19AC" />
  </Data>

```

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| (24) .version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PASSED |
| <pre>       &lt;Data&gt;         &lt;Unsigned Value="02" /&gt;       &lt;/Data&gt; </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |
| (25) .device_type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PASSED |
| <pre>       &lt;Data&gt;         &lt;Unsigned Value="03" /&gt;       &lt;/Data&gt; </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |
| (26) .access_number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PASSED |
| <pre>       &lt;Data&gt;         &lt;Unsigned Value="73" /&gt;       &lt;/Data&gt; </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |
| (27) .status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PASSED |
| <pre>       &lt;Data&gt;         &lt;Unsigned Value="00" /&gt;       &lt;/Data&gt; </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |
| (28) .alarm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PASSED |
| <pre>       &lt;Data&gt;         &lt;Unsigned Value="00" /&gt;       &lt;/Data&gt; </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |
| 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="0004" &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;Structure Qty="0002" &gt;             &lt;OctetString Value="0000000000000000" /&gt;             &lt;OctetString Value="0000000000000000" /&gt;           &lt;/Structure&gt;           &lt;Structure Qty="0002" &gt;             &lt;OctetString Value="0000000000000000" /&gt;             &lt;OctetString Value="0000000000000000" /&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; </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |

```

        <Unsigned Value="03" />
    </Data>
(38) .access_number PASSED
    <Data>
        <Unsigned Value="6A" />
    </Data>
(39) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>
(40) .alarm PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>

Mngmt Get M-Bus client channel 4 0-4:24.1.0.255 (@1640)
(41) .logical_name PASSED
    <Data>
        <OctetString Value="0004180100FF" />
    </Data>
(42) .mbus_port_reference PASSED
    <Data>
        <OctetString Value="0000180600FF" />
    </Data>
(43) .capture_definition PASSED
    <Data>
        <Array Qty="0004" >
            <Structure Qty="0002" >
                <OctetString Value="\L" />
                <OctetString Value="933A" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="8940" />
                <OctetString Value="FD1A" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="0000000000000000" />
                <OctetString Value="0000000000000000" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="0000000000000000" />
                <OctetString Value="0000000000000000" />
            </Structure>
        </Array>
    </Data>
(44) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(45) .primary_address PASSED
    <Data>
        <Unsigned Value="04" />
    </Data>
(46) .identification_number PASSED
    <Data>
        <DoubleLongUnsigned Value="00293811" />
    </Data>
(47) .manufacturer_id PASSED
    <Data>
        <LongUnsigned Value="19AC" />
    </Data>
(48) .version PASSED
    <Data>
        <Unsigned Value="02" />
    </Data>
(49) .device_type PASSED
    <Data>
        <Unsigned Value="03" />
    </Data>
(50) .access_number PASSED
    <Data>
        <Unsigned Value="AD" />
    </Data>

```



|                                                                            |        |
|----------------------------------------------------------------------------|--------|
| (51) .status                                                               | PASSED |
| <Data>                                                                     |        |
| <Unsigned Value="00" />                                                    |        |
| </Data>                                                                    |        |
| (52) .alarm                                                                | PASSED |
| <Data>                                                                     |        |
| <Unsigned Value="00" />                                                    |        |
| </Data>                                                                    |        |
| *****                                                                      |        |
| Test Case 13 : Ext. M - M-Bus Results uncorrected Vol. & valve, 40 item(s) |        |
| *****                                                                      |        |
| Mngmt Get M-Bus Value channel 1, instance 1 0-1:24.2.1.255 (@1662)         |        |
| (1) .logical_name                                                          | PASSED |
| <Data>                                                                     |        |
| <OctetString Value="0001180201FF" />                                       |        |
| </Data>                                                                    |        |
| (2) .value                                                                 | PASSED |
| <Data>                                                                     |        |
| <DoubleLongUnsigned Value="00000DD2" />                                    |        |
| </Data>                                                                    |        |
| (3) .scaler_unit                                                           | PASSED |
| <Data>                                                                     |        |
| <Structure Qty="0002" >                                                    |        |
| <Integer Value="FD" />                                                     |        |
| <Enum Value="0D" />                                                        |        |
| </Structure>                                                               |        |
| </Data>                                                                    |        |
| (4) .status                                                                | PASSED |
| <Data>                                                                     |        |
| <Unsigned Value="00" />                                                    |        |
| </Data>                                                                    |        |
| (5) .capture_time                                                          | PASSED |
| <Data>                                                                     |        |
| <OctetString Value="07E30301050A0122FFFFC400" />                           |        |
| </Data>                                                                    |        |
| Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1670)         |        |
| (6) .logical_name                                                          | PASSED |
| <Data>                                                                     |        |
| <OctetString Value="0001180202FF" />                                       |        |
| </Data>                                                                    |        |
| (7) .value                                                                 | PASSED |
| <Data>                                                                     |        |
| <DoubleLongUnsigned Value="91CF1201" />                                    |        |
| </Data>                                                                    |        |
| (8) .scaler_unit                                                           | PASSED |
| <Data>                                                                     |        |
| <Structure Qty="0002" >                                                    |        |
| <Integer Value="00" />                                                     |        |
| <Enum Value="FF" />                                                        |        |
| </Structure>                                                               |        |
| </Data>                                                                    |        |
| (9) .status                                                                | PASSED |
| <Data>                                                                     |        |
| <Unsigned Value="00" />                                                    |        |
| </Data>                                                                    |        |
| (10) .capture_time                                                         | PASSED |
| <Data>                                                                     |        |
| <OctetString Value="07E30301050A0122FFFFC400" />                           |        |
| </Data>                                                                    |        |
| Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1694)         |        |
| (11) .logical_name                                                         | PASSED |
| <Data>                                                                     |        |
| <OctetString Value="0002180201FF" />                                       |        |
| </Data>                                                                    |        |
| (12) .value                                                                | PASSED |
| <Data>                                                                     |        |
| <DoubleLongUnsigned Value="00000A0C" />                                    |        |
| </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="07E30301050A012FFFFFC400" />
    </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="A1F61201" />
    </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="07E30301050A012FFFFFC400" />
    </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="07E30301050A013AFFFFFC400" />
    </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="07E30301050A013AFFFFC400" />
    </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="07E30301050A020CFFFFC400" />
    </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="07E30301050A020CFFFFC400" />
    </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: 01-MAR-2019 11:00:00, latest date: 01-MAR-2019 16:00:00   |        |
| Middle date: 01-MAR-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" />                                     |        |
| <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: 01-MAR-2019 11:00:00, latest date: 01-MAR-2019 16:00:00
  Middle date: 01-MAR-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>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0002180201FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0002180202FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0002180203FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
      <Structure Qty="0004" >
        <LongUnsigned Value="0004" />
        <OctetString Value="0002180204FF" />
        <Integer Value="02" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Array>
  </Data>
(12) .capture_period PASSED
  <Data>
    <DoubleLongUnsigned Value="00000E10" />
  </Data>
(13) .sort_method PASSED
  <Data>
    <Enum Value="01" />
  </Data>
(14) .sort_object PASSED
  <Data>
    <Structure Qty="0004" >
      <LongUnsigned Value="0008" />
      <OctetString Value="0000010000FF" />
    </Structure>
  </Data>

```

```

    <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: 01-MAR-2019 11:00:00, latest date: 01-MAR-2019 16:00:00
  Middle date: 01-MAR-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>
      <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: 01-MAR-2019 11:00:00, latest date: 01-MAR-2019 16:00:00
    Middle date: 01-MAR-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" />
                <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: 28-FEB-2019 17:21:19, latest date: 28-FEB-2019 17:21:38
    Middle date: 28-FEB-2019 17:21:30
(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="000700000008" />
        <Integer Value="00" />
        <LongUnsigned Value="0000" />
      </Structure>
    </Data>
(7) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000009" />
    </Data>
(8) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="0000001E" />
    </Data>

Mngmt Get M-Bus Master Control log object 2 0-2:24.5.0.255 (@1952)

```

|                                                                    |                                                                        |        |
|--------------------------------------------------------------------|------------------------------------------------------------------------|--------|
| (9)                                                                | .logical_name                                                          | PASSED |
|                                                                    | <Data>                                                                 |        |
|                                                                    | <OctetString Value="0002180500FF" />                                   |        |
|                                                                    | </Data>                                                                |        |
| (10)                                                               | .buffer                                                                | PASSED |
|                                                                    | Earliest date: 28-FEB-2019 17:21:45, latest date: 28-FEB-2019 17:22:04 |        |
|                                                                    | Middle date: 28-FEB-2019 17:21:57                                      |        |
| (11)                                                               | .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="0002600B04FF" />                                   |        |
|                                                                    | <Integer Value="02" />                                                 |        |
|                                                                    | <LongUnsigned Value="0000" />                                          |        |
|                                                                    | </Structure>                                                           |        |
|                                                                    | </Array>                                                               |        |
|                                                                    | </Data>                                                                |        |
| (12)                                                               | .capture_period                                                        | PASSED |
|                                                                    | <Data>                                                                 |        |
|                                                                    | <DoubleLongUnsigned Value="00000000" />                                |        |
|                                                                    | </Data>                                                                |        |
| (13)                                                               | .sort_method                                                           | PASSED |
|                                                                    | <Data>                                                                 |        |
|                                                                    | <Enum Value="01" />                                                    |        |
|                                                                    | </Data>                                                                |        |
| (14)                                                               | .sort_object                                                           | PASSED |
|                                                                    | <Data>                                                                 |        |
|                                                                    | <Structure Qty="0004" >                                                |        |
|                                                                    | <LongUnsigned Value="0000" />                                          |        |
|                                                                    | <OctetString Value="000800000009" />                                   |        |
|                                                                    | <Integer Value="00" />                                                 |        |
|                                                                    | <LongUnsigned Value="0000" />                                          |        |
|                                                                    | </Structure>                                                           |        |
|                                                                    | </Data>                                                                |        |
| (15)                                                               | .entries_in_use                                                        | PASSED |
|                                                                    | <Data>                                                                 |        |
|                                                                    | <DoubleLongUnsigned Value="00000009" />                                |        |
|                                                                    | </Data>                                                                |        |
| (16)                                                               | .profile_entries                                                       | PASSED |
|                                                                    | <Data>                                                                 |        |
|                                                                    | <DoubleLongUnsigned Value="0000001E" />                                |        |
|                                                                    | </Data>                                                                |        |
| Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1963) |                                                                        |        |
| (17)                                                               | .logical_name                                                          | PASSED |
|                                                                    | <Data>                                                                 |        |
|                                                                    | <OctetString Value="0003180500FF" />                                   |        |
|                                                                    | </Data>                                                                |        |
| (18)                                                               | .buffer                                                                | PASSED |
|                                                                    | Earliest date: 28-FEB-2019 17:22:10, latest date: 28-FEB-2019 17:22:29 |        |
|                                                                    | Middle date: 28-FEB-2019 17:22:21                                      |        |
| (19)                                                               | .capture_objects                                                       | PASSED |
|                                                                    | <Data>                                                                 |        |
|                                                                    | <Array Qty="0002" >                                                    |        |
|                                                                    | <Structure Qty="0004" >                                                |        |
|                                                                    | <LongUnsigned Value="0008" />                                          |        |
|                                                                    | <OctetString Value="0000010000FF" />                                   |        |
|                                                                    | <Integer Value="02" />                                                 |        |
|                                                                    | <LongUnsigned Value="0000" />                                          |        |
|                                                                    | </Structure>                                                           |        |
|                                                                    | <Structure Qty="0004" >                                                |        |
|                                                                    | <LongUnsigned Value="0001" />                                          |        |
|                                                                    | <OctetString Value="0003600B04FF" />                                   |        |
|                                                                    | <Integer Value="02" />                                                 |        |
|                                                                    | <LongUnsigned Value="0000" />                                          |        |
|                                                                    | </Structure>                                                           |        |

```

    </Array>
    </Data>
(20) .capture_period PASSED
    <Data>
      <DoubleLongUnsigned Value="00000000" />
    </Data>
(21) .sort_method PASSED
    <Data>
      <Enum Value="01" />
    </Data>
(22) .sort_object PASSED
    <Data>
      <Structure Qty="0004" >
        <LongUnsigned Value="0000" />
        <OctetString Value="00090000000A" />
        <Integer Value="00" />
        <LongUnsigned Value="1E10" />
      </Structure>
    </Data>
(23) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000009" />
    </Data>
(24) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="0000001E" />
    </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: 28-FEB-2019 17:22:35, latest date: 28-FEB-2019 17:22:54
    Middle date: 28-FEB-2019 17:22:46
(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="000A00101E00" />
        <Integer Value="CB" />
        <LongUnsigned Value="00A8" />
      </Structure>
    </Data>
(31) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000009" />
    </Data>

```

```

    </Data>
(32) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="0000001E" />
    </Data>

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1989)
(33) .logical_name PASSED
    <Data>
        <OctetString Value="0000636203FF" />
    </Data>
(34) .buffer PASSED
    Earliest date: 28-JUN-2018 17:21:27, latest date: 01-MAR-2019 10:01:34
    Middle date: 28-FEB-2019 17:59:01
(35) .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="0000600B03FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
        </Array>
    </Data>
(36) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000000" />
    </Data>
(37) .sort_method PASSED
    <Data>
        <Enum Value="01" />
    </Data>
(38) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0000" />
            <OctetString Value="000600000007" />
            <Integer Value="00" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(39) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000C" />
    </Data>
(40) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="0000001E" />
    </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>

```

|                                                                           |        |  |
|---------------------------------------------------------------------------|--------|--|
| </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 |  |
| <Data>                                                                    |        |  |
| <OctetString Value="00010F0001FF" />                                      |        |  |
| </Data>                                                                   |        |  |
| (18) .executed_script                                                     | PASSED |  |
| <Data>                                                                    |        |  |
| <Structure Qty="0002" >                                                   |        |  |
| <OctetString Value="00010A006AFF" />                                      |        |  |
| <LongUnsigned Value="0009" />                                             |        |  |
| </Structure>                                                              |        |  |
| </Data>                                                                   |        |  |
| (19) .type                                                                | PASSED |  |

```

    <Data>
      <Enum Value="01" />
    </Data>
  (20) .execution_time PASSED
    <Data>
      <Array Qty="0001" >
        <Structure Qty="0002" >
          <OctetString Value="FFFFFFFF" />
          <OctetString Value="FFFFFFFFFF" />
        </Structure>
      </Array>
    </Data>

Mngmt Get M-Bus Disconnecter script table 0-1:10.0.106.255 (@1920)
(21) .logical_name PASSED
    <Data>
      <OctetString Value="00010A006AFF" />
    </Data>
(22) .scripts PASSED
    <Data>
      <Array Qty="0010" >
        <Structure Qty="0002" >
          <LongUnsigned Value="0001" />
          <Array Qty="0001" >
            <Structure Qty="0005" >
              <Enum Value="01" />
              <LongUnsigned Value="0046" />
              <OctetString Value="0001180400FF" />
              <Integer Value="03" />
              <Enum Value="02" />
            </Structure>
          </Array>
        </Structure>
        <Structure Qty="0002" >
          <LongUnsigned Value="0002" />
          <Array Qty="0001" >
            <Structure Qty="0005" >
              <Enum Value="01" />
              <LongUnsigned Value="0046" />
              <OctetString Value="0001180400FF" />
              <Integer Value="03" />
              <Enum Value="01" />
            </Structure>
          </Array>
        </Structure>
        <Structure Qty="0002" >
          <LongUnsigned Value="0003" />
          <Array Qty="0001" >
            <Structure Qty="0005" >
              <Enum Value="01" />
              <LongUnsigned Value="0046" />
              <OctetString Value="0002180400FF" />
              <Integer Value="03" />
              <Enum Value="02" />
            </Structure>
          </Array>
        </Structure>
        <Structure Qty="0002" >
          <LongUnsigned Value="0004" />
          <Array Qty="0001" >
            <Structure Qty="0005" >
              <Enum Value="01" />
              <LongUnsigned Value="0046" />
              <OctetString Value="0002180400FF" />
              <Integer Value="03" />
              <Enum Value="01" />
            </Structure>
          </Array>
        </Structure>
        <Structure Qty="0002" >
          <LongUnsigned Value="0005" />
          <Array Qty="0001" >
            <Structure Qty="0005" >

```

```

        <Enum Value="01" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0003180400FF" />
        <Integer Value="03" />
        <Enum Value="02" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="0006" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="01" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0003180400FF" />
        <Integer Value="03" />
        <Enum Value="01" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="0007" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="01" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0004180400FF" />
        <Integer Value="03" />
        <Enum Value="02" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="0008" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="01" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0004180400FF" />
        <Integer Value="03" />
        <Enum Value="01" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="0009" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="02" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0001180400FF" />
        <Integer Value="01" />
        <Integer Value="00" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="000A" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="02" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0001180400FF" />
        <Integer Value="02" />
        <Integer Value="00" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="000B" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="02" />

```

```

        <LongUnsigned Value="0046" />
        <OctetString Value="0002180400FF" />
        <Integer Value="01" />
        <Integer Value="00" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="000C" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="02" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0002180400FF" />
        <Integer Value="02" />
        <Integer Value="00" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="000D" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="02" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0003180400FF" />
        <Integer Value="01" />
        <Integer Value="00" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="000E" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="02" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0003180400FF" />
        <Integer Value="02" />
        <Integer Value="00" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="000F" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="02" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0004180400FF" />
        <Integer Value="01" />
        <Integer Value="00" />
      </Structure>
    </Array>
  </Structure>
  <Structure Qty="0002" >
    <LongUnsigned Value="0010" />
    <Array Qty="0001" >
      <Structure Qty="0005" >
        <Enum Value="02" />
        <LongUnsigned Value="0046" />
        <OctetString Value="0004180400FF" />
        <Integer Value="02" />
        <Integer Value="00" />
      </Structure>
    </Array>
  </Structure>
</Array>
</Data>

```

```

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

```



```

    (1) Push on installation                                     PASSED
    (2) Push on alarm                                           PASSED
    (3) Push on power down
INAPPLICABLE
    Push setup on power down not available

*****
Test Case 19 : FIT Miscellaneous, 4 item(s)
*****
    (1) Disconnecter Script Table                               PASSED
    (2) Load profile with period 1 DST ambiguity              PASSED
    (3) Load profile power down withing one period            PASSED
    (4) Load profile power down over two periods               PASSED

*****
* CTI *
*****

//*****
//* CTI Sanxing *
//* *
//* *
//* FIT 2019-03-01 *
//* *
//*****

// Conformance Test Information (CTI) Template

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

DeviceUnderTest = {
    Type = '\S12U16'
    IDISDeviceType = 102
    IDISFunctionType = [Extension_D, Extension_L, Extension_M]
    SerialNr = 19010105
    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 = {
    // YYYY MM DD DW HH MM SS
    LogicalName = '0-0:1.0.0.255'
    ClassId = 8
    AttributeExtraInfo = {
        AttributeId = 2
        SetData = '\<Data><OctetString Value="07E3030105120000FF8000FF" /></Data>'
    }
}

InstanceExtraInfo = {
    // Set special days to 30 entries
    LogicalName = '0-0:11.0.0.255'
    ClassId = 11
    AttributeExtraInfo = {
        AttributeId = 2
        SetData = '\<Data>'
+       <Array Qty="1E" >'
+       <Structure Qty="03" >'
+       <LongUnsigned Value="0001" />'
+       <OctetString Value="FFFF0101FF" />'
+       <Unsigned Value="02" />'
+       </Structure>'
+       <Structure Qty="03" >'
+       <LongUnsigned Value="0001" />'
+       <OctetString Value="FFFF0102FF" />'
+       <Unsigned Value="02" />'
+       </Structure>'
+       <Structure Qty="03" >'
+       <LongUnsigned Value="0001" />'
+       <OctetString Value="FFFF0103FF" />'
+       <Unsigned Value="02" />'
+       </Structure>'
+       <Structure Qty="03" >'
+       <LongUnsigned Value="0001" />'
+       <OctetString Value="FFFF0104FF" />'
+       <Unsigned Value="02" />'
+       </Structure>'
+       <Structure Qty="03" >'
+       <LongUnsigned Value="0001" />'
+       <OctetString Value="FFFF0105FF" />'
+       <Unsigned Value="02" />'

```

[illegible]

```

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

```

```

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

  ImageTransfer = {
    ImageIdentifier = '\E.S12U16.SE.003373.010.V0.1'
    ImageFileName = '\E.S12U16.SE.003373.010.V0.1.bin'
    Timeout = 90000
  }
}

```

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
        CipheringStyle = 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
        CipheringStyle = GENERAL
    }
}

SMSSecurityElements = {
    PreEstablished = {
        Policy = AUTHENTICATION_AND_ENCRYPTION
        ServerMaxReceivePduSize = 138
        CipheringStyle = 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:         4155586671221239
Run number:               310
```