

Final Interoperability Test Report

FIT #: **92**
 Date: 9/15/2022
 Location: DNV-GL,Arnhem, Netherlands
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APPLICANT

Company: Smart Metering Solutions (Changsha) Co., Ltd.

Address: No.468 West Tongzipo Road High-Tech Industrial Development Zone, Changsha City, Hunan Province, China

DEVICE		
Device type	IM351	
<i>Type indication on MID certificate</i>		<i>MID Certificate No.</i>
IM351		0120/SGS0501
<i>IDIS Specification reference</i>	<i>DNV-gl IDIS Certification run No</i>	<i>Digital signature of the test report.</i>
Package 2 ed. 2.0	1931	B56E9CFA4FCA373530E43D8D5C1DB68C
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input type="checkbox"/>	0092	<input type="checkbox"/>
<i>General information about the device</i>		
Polyphase Smart Meter		

FIRMWARE VERSIONS TESTED				<i>Final Interoperability Test No. 92</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
1	WSE351EL0401001 0			Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #92

Device:SMSC IM351

DNV-GL,Arnhem, Netherlands, 15.09.2022

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FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	WSE351EL0401001 0			92	Passed

TEST REPORT - Firmware No. 1		
<i>Test</i>	<i>Verdict</i>	<i>Remark</i>
Connect and release	Passed	
All Device IDs	Passed	
COSEM logical device name	Passed	
SAP assignment	Passed	
FW version and signature	Passed	Only one FW in use
All Device ID's	Passed	
Broadcast Date and time	Passed	
Broadcast Special Days Table	Passed	
Event logs	Passed	
Billing data period 1	Passed	
M-Bus Channel Setup	Passed	Master Setup N/A
M-Bus Results	Passed	
M-Bus Devices IDs	Passed	
M-Bus profiles	Passed	
M-Bus Load profiles	Passed	
M-Bus control logs	Passed	
M-Bus Disconnect log	Passed	
FIT Push	Passed	Power Off Push N/A
FIT Miscellaneous	Passed	Wake Up N/A
Optical Port Connectivity	Passed	
Consumer Information Interface	Passed	
<i>FIT Conformance Test Report</i>		
<pre> ***** IDIS Conformance test report 15-SEP-2022 10:18:08 iCTT2 Package 2, Edition 2.0, Revision 1 (136) Licensed to: KEMA-IDIS Cert. Tester: Tom Levels ***** ***** * Identification * ***** Manufacturer = { Name = '\Smart Metering Solutions (Changsha) Co., Ltd.' ThreeLettersId = '\SMS' } DeviceUnderTest = { Type = '\IM351' IDISDeviceType = 103 IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M] SerialNr = 3684406 IPVersion = IPV4 DataLinkLayer = GPRS ConsumerInformationPush = FALSE SMSSupported = FALSE ClipCallSupported = FALSE } Active firmware identifier (1-0:0.2.0.255) = \WSE351EL04010010 ***** * Summary * ***** PASSED 262 FAILED 0 DISABLED 0 INAPPLICABLE 13 INCONCLUSIVE 0 FATAL 0 </pre>		

TOTAL	275	

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="\2021000000000016" />		
</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="\2021" />		
</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="\OPT-OUT" />		
</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="\2021" />		
</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="\2021" />		
</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="\2021000000000000" />		
</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="\SMS1030703684406" />
    </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="\SMS1030703684406" />
        </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="\WSE351EL04010010" />
    </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="087CEE889EACC5FCBD0B618FF82BC3AC75EFDBEF32E53E2D53B42BA9B6B83ECA062426322487EBD347B2AD
E64A14A9871B5F0BA09C35BE624631F0F39E5BBA8F" />
    </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

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(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                                     PASSED
    <Data>
        <OctetString Value="07E6090FFF10000FF8000FF" />
    </Data>

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

Mngmt Get Clock 0-0:1.0.0.255 (@75)
(1) .time                                     PASSED
    <Data>
        <OctetString Value="07E6090F0410000100FF8880" />
    </Data>

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

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

```

```

<Structure Qty="0003" >
  <LongUnsigned Value="0019" />
  <OctetString Value="FFFF0106FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0018" />
  <OctetString Value="FFFF0107FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0017" />
  <OctetString Value="FFFF0108FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0016" />
  <OctetString Value="FFFF0109FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0015" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0014" />
  <OctetString Value="FFFF0201FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0013" />
  <OctetString Value="FFFF0202FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0012" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0011" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0010" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000F" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000E" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000D" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000C" />
  <OctetString Value="FFFF0209FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000B" />
  <OctetString Value="FFFF020AFF" />

```

```

    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000A" />
    <OctetString Value="FFFF0301FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0009" />
    <OctetString Value="FFFF0302FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0008" />
    <OctetString Value="FFFF0303FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0007" />
    <OctetString Value="FFFF0304FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0006" />
    <OctetString Value="FFFF0305FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0005" />
    <OctetString Value="FFFF0306FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0004" />
    <OctetString Value="FFFF0307FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0003" />
    <OctetString Value="FFFF0308FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0002" />
    <OctetString Value="FFFF0309FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF030AFF" />
    <Unsigned Value="02" />
  </Structure>
</Array>
</Data>

```

```

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

```

```

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

```

PASSED

```

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

```



```

<Structure Qty="0003" >
  <LongUnsigned Value="001C" />
  <OctetString Value="FFFF0103FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001B" />
  <OctetString Value="FFFF0104FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="001A" />
  <OctetString Value="FFFF0105FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0019" />
  <OctetString Value="FFFF0106FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0018" />
  <OctetString Value="FFFF0107FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0017" />
  <OctetString Value="FFFF0108FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0016" />
  <OctetString Value="FFFF0109FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0015" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0014" />
  <OctetString Value="FFFF0201FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0013" />
  <OctetString Value="FFFF0202FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0012" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0011" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0010" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000F" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000E" />
  <OctetString Value="FFFF0207FF" />

```

```

    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000D" />
    <OctetString Value="FFFF0208FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000C" />
    <OctetString Value="FFFF0209FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000B" />
    <OctetString Value="FFFF020AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="000A" />
    <OctetString Value="FFFF0301FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0009" />
    <OctetString Value="FFFF0302FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0008" />
    <OctetString Value="FFFF0303FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0007" />
    <OctetString Value="FFFF0304FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0006" />
    <OctetString Value="FFFF0305FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0005" />
    <OctetString Value="FFFF0306FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0004" />
    <OctetString Value="FFFF0307FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0003" />
    <OctetString Value="FFFF0308FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0002" />
    <OctetString Value="FFFF0309FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0001" />
    <OctetString Value="FFFF030AFF" />
    <Unsigned Value="02" />
  </Structure>
</Array>
</Data>

```

```

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

```

```

Mngmt Get Disconnecter Control Log 0-0:99.98.2.255 (@193)
(1) .logical_name PASSED
    <Data>
      <OctetString Value="0000636202FF" />
    </Data>
(2) .buffer PASSED
    Earliest date: 10-NOV-2021 11:46:01, latest date: 14-NOV-2021 19:46:01
    Middle date: 12-NOV-2021 15:46:01
(3) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000005" />
    </Data>
(4) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="000000C8" />
    </Data>

Mngmt Get Standard Event Log 0-0:99.98.0.255 (@301)
(5) .logical_name PASSED
    <Data>
      <OctetString Value="0000636200FF" />
    </Data>
(6) .buffer PASSED
    Earliest date: 01-FEB-2022 09:14:42, latest date: 15-SEP-2022 16:00:00
    Middle date: 02-AUG-2022 00:15:47
(7) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000018" />
    </Data>
(8) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="000001F4" />
    </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: 10-NOV-2021 11:46:01, latest date: 15-SEP-2022 10:01:42
    Middle date: 14-NOV-2021 19:46:01
(11) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000009" />
    </Data>
(12) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="000000C8" />
    </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: 10-NOV-2021 11:46:01, latest date: 15-SEP-2022 10:12:45
    Middle date: 14-NOV-2021 19:46:01
(15) .entries_in_use PASSED
    <Data>
      <DoubleLongUnsigned Value="00000009" />
    </Data>
(16) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="000000C8" />
    </Data>

Mngmt Get Power Quality Log 0-0:99.98.4.255 (@1340)
(17) .logical_name PASSED
    <Data>
      <OctetString Value="0000636204FF" />

```

</Data>		
(18) .buffer	Earliest date: 10-NOV-2021 11:46:01, latest date: 02-AUG-2022 00:36:23 Middle date: 02-AUG-2022 00:16:26	PASSED
(19) .entries_in_use	<Data> <DoubleLongUnsigned Value="0000000B" /> </Data>	PASSED
(20) .profile_entries	<Data> <DoubleLongUnsigned Value="000000C8" /> </Data>	PASSED
***** Test Case 11 : Reading Data of Billing Period 1, 8 item(s) *****		
Mngmt Get Data of billing period 1 0-0:98.1.0.255 (@158)		
(1) .logical_name	<Data> <OctetString Value="0000620100FF" /> </Data>	PASSED
(2) .buffer	Earliest date: 02-FEB-2022 00:00:00, latest date: 02-SEP-2022 00:00:00 Middle date: 02-JUN-2022 00:00:00	PASSED
(3) .capture_objects	<Data> <Array Qty="0005" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0003" /> <OctetString Value="0100010801FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0003" /> <OctetString Value="0100010802FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0003" /> <OctetString Value="0100020801FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0003" /> <OctetString Value="0100020802FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data>	PASSED
(4) .capture_period	<Data> <DoubleLongUnsigned Value="00000000" /> </Data>	PASSED
(5) .sort_method	<Data> <Enum Value="01" /> </Data>	PASSED
(6) .sort_object	<Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" />	PASSED

```

        <Integer Value="02" />
        <LongUnsigned Value="0000" />
    </Structure>
</Data>
(7) .entries_in_use                                     PASSED
    <Data>
        <DoubleLongUnsigned Value="00000007" />
    </Data>
(8) .profile_entries                                   PASSED
    <Data>
        <DoubleLongUnsigned Value="000000C8" />
    </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="" />
                <OctetString Value="" />
            </Structure>
            <Structure Qty="0002" >
                <OctetString Value="" />
                <OctetString Value="" />
            </Structure>
        </Array>
    </Data>
(8) .capture_period                                   PASSED
    <Data>
        <DoubleLongUnsigned Value="00000E10" />
    </Data>
(9) .primary_address                                 PASSED
    <Data>
        <Unsigned Value="01" />
    </Data>

```

(10)	.identification_number	PASSED
	<Data> <DoubleLongUnsigned Value="00047BB1" /> </Data>	
(11)	.manufacturer_id	PASSED
	<Data> <LongUnsigned Value="19AC" /> </Data>	
(12)	.version	PASSED
	<Data> <Unsigned Value="02" /> </Data>	
(13)	.device_type	PASSED
	<Data> <Unsigned Value="03" /> </Data>	
(14)	.access_number	PASSED
	<Data> <Unsigned Value="7F" /> </Data>	
(15)	.status	PASSED
	<Data> <Unsigned Value="04" /> </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="" /> <OctetString Value="" /> </Structure> <Structure Qty="0002" > <OctetString Value="" /> <OctetString Value="" /> </Structure> </Array> </Data>	
(20)	.capture_period	PASSED
	<Data> <DoubleLongUnsigned Value="00000E10" /> </Data>	
(21)	.primary_address	PASSED
	<Data> <Unsigned Value="02" /> </Data>	
(22)	.identification_number	PASSED
	<Data> <DoubleLongUnsigned Value="00047BB2" /> </Data>	
(23)	.manufacturer_id	PASSED
	<Data>	

	<LongUnsigned Value="19AC" />	
	</Data>	
(24)	.version	PASSED
	<Data>	
	<Unsigned Value="02" />	
	</Data>	
(25)	.device_type	PASSED
	<Data>	
	<Unsigned Value="03" />	
	</Data>	
(26)	.access_number	PASSED
	<Data>	
	<Unsigned Value="CC" />	
	</Data>	
(27)	.status	PASSED
	<Data>	
	<Unsigned Value="04" />	
	</Data>	
(28)	.alarm	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1618)		
(29)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0003180100FF" />	
	</Data>	
(30)	.mbus_port_reference	PASSED
	<Data>	
	<OctetString Value="0000180600FF" />	
	</Data>	
(31)	.capture_definition	PASSED
	<Data>	
	<Array Qty="0004" >	
	<Structure Qty="0002" >	
	<OctetString Value="\L" />	
	<OctetString Value="933A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="8940" />	
	<OctetString Value="FD1A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="" />	
	<OctetString Value="" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="" />	
	<OctetString Value="" />	
	</Structure>	
	</Array>	
	</Data>	
(32)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000E10" />	
	</Data>	
(33)	.primary_address	PASSED
	<Data>	
	<Unsigned Value="03" />	
	</Data>	
(34)	.identification_number	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00047BB4" />	
	</Data>	
(35)	.manufacturer_id	PASSED
	<Data>	
	<LongUnsigned Value="19AC" />	
	</Data>	
(36)	.version	PASSED
	<Data>	
	<Unsigned Value="02" />	
	</Data>	

(37)	.device_type	PASSED
	<Data>	
	<Unsigned Value="03" />	
	</Data>	
(38)	.access_number	PASSED
	<Data>	
	<Unsigned Value="92" />	
	</Data>	
(39)	.status	PASSED
	<Data>	
	<Unsigned Value="04" />	
	</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="" />	
	<OctetString Value="" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="" />	
	<OctetString Value="" />	
	</Structure>	
	</Array>	
	</Data>	
(44)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000E10" />	
	</Data>	
(45)	.primary_address	PASSED
	<Data>	
	<Unsigned Value="04" />	
	</Data>	
(46)	.identification_number	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00047BB3" />	
	</Data>	
(47)	.manufacturer_id	PASSED
	<Data>	
	<LongUnsigned Value="19AC" />	
	</Data>	
(48)	.version	PASSED
	<Data>	
	<Unsigned Value="02" />	
	</Data>	
(49)	.device_type	PASSED
	<Data>	
	<Unsigned Value="03" />	
	</Data>	
(50)	.access_number	PASSED
	<Data>	

<pre> <Unsigned Value="BC" /> </Data> (51) .status <Data> <Unsigned Value="04" /> </Data> (52) .alarm <Data> <Unsigned Value="00" /> </Data> </pre>	PASSED
<p>***** Test Case 13 : Ext. M - M-Bus Results uncorrected Vol. & valve, 40 item(s) *****</p>	
<pre> Mngmt Get M-Bus Value channel 1, instance 1 0-1:24.2.1.255 (@1662) (1) .logical_name <Data> <OctetString Value="0001180201FF" /> </Data> (2) .value <Data> <DoubleLongUnsigned Value="00000F9F" /> </Data> (3) .scaler_unit <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data> (4) .status <Data> <Unsigned Value="04" /> </Data> (5) .capture_time <Data> <OctetString Value="07E6090F040A062D00FF8880" /> </Data> </pre>	PASSED
<pre> Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1670) (6) .logical_name <Data> <OctetString Value="0001180202FF" /> </Data> (7) .value <Data> <DoubleLongUnsigned Value="00000001" /> </Data> (8) .scaler_unit <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data> (9) .status <Data> <Unsigned Value="04" /> </Data> (10) .capture_time <Data> <OctetString Value="07E6090F040A062D00FF8880" /> </Data> </pre>	PASSED
<pre> Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1694) (11) .logical_name <Data> <OctetString Value="0002180201FF" /> </Data> (12) .value <Data> <DoubleLongUnsigned Value="00000B89" /> </Data> </pre>	PASSED

	</Data>	
(13)	.scaler_unit <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data>	PASSED
(14)	.status <Data> <Unsigned Value="04" /> </Data>	PASSED
(15)	.capture_time <Data> <OctetString Value="07E6090F040A070800FF8880" /> </Data>	PASSED
Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1702)		
(16)	.logical_name <Data> <OctetString Value="0002180202FF" /> </Data>	PASSED
(17)	.value <Data> <DoubleLongUnsigned Value="00000001" /> </Data>	PASSED
(18)	.scaler_unit <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data>	PASSED
(19)	.status <Data> <Unsigned Value="04" /> </Data>	PASSED
(20)	.capture_time <Data> <OctetString Value="07E6090F040A070800FF8880" /> </Data>	PASSED
Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1726)		
(21)	.logical_name <Data> <OctetString Value="0003180201FF" /> </Data>	PASSED
(22)	.value <Data> <DoubleLongUnsigned Value="00000E7A" /> </Data>	PASSED
(23)	.scaler_unit <Data> <Structure Qty="0002" > <Integer Value="FD" /> <Enum Value="0D" /> </Structure> </Data>	PASSED
(24)	.status <Data> <Unsigned Value="04" /> </Data>	PASSED
(25)	.capture_time <Data> <OctetString Value="07E6090F040A071B00FF8880" /> </Data>	PASSED
Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1734)		
(26)	.logical_name <Data> <OctetString Value="0003180202FF" /> </Data>	PASSED
(27)	.value	PASSED

```

    <Data>
      <DoubleLongUnsigned Value="00000001" />
    </Data>
(28) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="00" />
        <Enum Value="FF" />
      </Structure>
    </Data>
(29) .status PASSED
    <Data>
      <Unsigned Value="04" />
    </Data>
(30) .capture_time PASSED
    <Data>
      <OctetString Value="07E6090F040A071B00FF8880" />
    </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="00000ABC" />
    </Data>
(33) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="FD" />
        <Enum Value="0D" />
      </Structure>
    </Data>
(34) .status PASSED
    <Data>
      <Unsigned Value="04" />
    </Data>
(35) .capture_time PASSED
    <Data>
      <OctetString Value="07E6090F040A072800FF8880" />
    </Data>

Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1766)
(36) .logical_name PASSED
    <Data>
      <OctetString Value="0004180202FF" />
    </Data>
(37) .value PASSED
    <Data>
      <DoubleLongUnsigned Value="00000001" />
    </Data>
(38) .scaler_unit PASSED
    <Data>
      <Structure Qty="0002" >
        <Integer Value="00" />
        <Enum Value="FF" />
      </Structure>
    </Data>
(39) .status PASSED
    <Data>
      <Unsigned Value="04" />
    </Data>
(40) .capture_time PASSED
    <Data>
      <OctetString Value="07E6090F040A072800FF8880" />
    </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
<pre> <Data> <OctetString Value="0001600100FF" /> </Data> </pre>	
(2) .value	PASSED
<pre> <Data> <OctetString Value="3239333830390000" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1794)	
(3) .logical_name	PASSED
<pre> <Data> <OctetString Value="0002600100FF" /> </Data> </pre>	
(4) .value	PASSED
<pre> <Data> <OctetString Value="3239333831300000" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1798)	
(5) .logical_name	PASSED
<pre> <Data> <OctetString Value="0003600100FF" /> </Data> </pre>	
(6) .value	PASSED
<pre> <Data> <OctetString Value="3239333831320000" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1802)	
(7) .logical_name	PASSED
<pre> <Data> <OctetString Value="0004600100FF" /> </Data> </pre>	
(8) .value	PASSED
<pre> <Data> <OctetString Value="3239333831310000" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 2 channel 1 0-1:96.1.1.255 (@1806)	
(9) .logical_name	PASSED
<pre> <Data> <OctetString Value="0001600101FF" /> </Data> </pre>	
(10) .value	PASSED
<pre> <Data> <OctetString Value="\2021" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 2 channel 2 0-2:96.1.1.255 (@1810)	
(11) .logical_name	PASSED
<pre> <Data> <OctetString Value="0002600101FF" /> </Data> </pre>	
(12) .value	PASSED
<pre> <Data> <OctetString Value="\2021" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 2 channel 3 0-3:96.1.1.255 (@1814)	
(13) .logical_name	PASSED
<pre> <Data> <OctetString Value="0003600101FF" /> </Data> </pre>	
(14) .value	PASSED
<pre> <Data> <OctetString Value="\2021" /> </Data> </pre>	
Mngmt Get M-Bus Device ID 2 channel 4 0-4:96.1.1.255 (@1818)	
(15) .logical_name	PASSED
<pre> <Data> </pre>	

```

        <OctetString Value="0004600101FF" />
    </Data>
(16) .value PASSED
    <Data>
        <OctetString Value="\2021" />
    </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-FEB-2022 10:00:00, latest date: 15-SEP-2022 16:00:00
    Middle date: 02-JUN-2022 01:00:00
(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" />

```

	<pre> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data> (7) .entries_in_use PASSED <Data> <DoubleLongUnsigned Value="00000009" /> </Data> (8) .profile_entries PASSED <Data> <DoubleLongUnsigned Value="000000F0" /> </Data> Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1849) (9) .logical_name PASSED <Data> <OctetString Value="0002180300FF" /> </Data> (10) .buffer PASSED Earliest date: 01-FEB-2022 10:00:00, latest date: 15-SEP-2022 16:00:00 Middle date: 02-JUN-2022 01:00:00 (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" > </pre>
--	--


```

    <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="00000009" />
    </Data>
(24) .profile_entries PASSED
    <Data>
      <DoubleLongUnsigned Value="000000F0" />
    </Data>

Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1871)
(25) .logical_name PASSED
    <Data>
      <OctetString Value="0004180300FF" />
    </Data>
(26) .buffer PASSED
    Earliest date: 01-FEB-2022 10:00:00, latest date: 15-SEP-2022 16:00:00
    Middle date: 02-JUN-2022 01:00:00
(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>

```


<pre> </Data> (30) .sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data> (31) .entries_in_use <Data> <DoubleLongUnsigned Value="00000009" /> </Data> (32) .profile_entries <Data> <DoubleLongUnsigned Value="000000F0" /> </Data> </pre>	PASSED
<pre> ***** Test Case 16 : Ext. M - M-Bus Control Logs, 40 item(s) ***** </pre>	
<pre> Mngmt Get M-Bus Master Control log object 1 0-1:24.5.0.255 (@1941) (1) .logical_name <Data> <OctetString Value="0001180500FF" /> </Data> (2) .buffer Earliest date: 10-NOV-2021 11:46:01, latest date: 14-NOV-2021 19:46:01 Middle date: 12-NOV-2021 15:46:01 (3) .capture_objects <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0001600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data> (4) .capture_period <Data> <DoubleLongUnsigned Value="00000000" /> </Data> (5) .sort_method <Data> <Enum Value="01" /> </Data> (6) .sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data> (7) .entries_in_use <Data> <DoubleLongUnsigned Value="00000005" /> </Data> (8) .profile_entries <Data> <DoubleLongUnsigned Value="00000064" /> </Data> </pre>	

```

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: 10-NOV-2021 11:46:01, latest date: 14-NOV-2021 19:46:01
    Middle date: 12-NOV-2021 15:46:01
(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" >
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(13) .sort_method PASSED
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(14) .sort_object PASSED
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    </Data>
(15) .entries_in_use PASSED
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(16) .profile_entries PASSED
    <Data>
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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: 10-NOV-2021 11:46:01, latest date: 14-NOV-2021 19:46:01
    Middle date: 12-NOV-2021 15:46:01
(19) .capture_objects PASSED
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--	--

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(7)	.control_state	PASSED
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	</Data>	
(8)	.control_mode	PASSED
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	Mngmt Get M-Bus Master Disconnect control object 3 0-3:24.4.0.255 (@1898)	
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(10)	.output_state	PASSED
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(11)	.control_state	PASSED
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(12)	.control_mode	PASSED
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	Mngmt Get M-Bus Master Disconnect control object 4 0-4:24.4.0.255 (@1906)	
(13)	.logical_name	PASSED
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(14)	.output_state	PASSED
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(15)	.control_state	PASSED
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	Mngmt Get M-Bus Disconnect control scheduler 0-1:15.0.1.255 (@1914)	
(17)	.logical_name	PASSED
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(18)	.executed_script	PASSED
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</Data>

```

```

Test Case 18 : FIT Wake up, 2 item(s)
*****
(1) Wake up with clip call from unknown number
INAPPLICABLE
    Clip call not supported
(2) Wake up with SMS from unknown number
INAPPLICABLE
    SMS not supported

*****
Test Case 19 : 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 20 : FIT Miscellaneous, 4 item(s)
*****
(1) Disconnecter Script Table                             PASSED
(2) Load profile with period 1 DST ambiguity              PASSED
(3) Load profile power down withing one period            PASSED
(4) Load profile power down over two periods              PASSED

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

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

Manufacturer = {
    Name = '\Smart Metering Solutions (Changsha) Co., Ltd.'
    ThreeLettersId = '\SMS'
}

DeviceUnderTest = {
    Type = '\IM351'
    IDISDeviceType = 103
    IDISFunctionType = [Extension_D, Extension_L, Extension_M]
    SerialNr = 03684406
    IPVersion = IPv4
    DataLinkLayer = GPRS
    ConsumerInformationPush = FALSE
    SMSSupported = FALSE
    ClipCallSupported = FALSE
}

TestOptions = {
}

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 = {
    LogicalName = '0-0:1.0.0.255'
    ClassId = 8
    AttributeExtraInfo = {

```

```

        AttributeId = 2
        SetData = '\<Data><OctetString Value="07E6090FFF10000FF8000FF" /></Data>' // yyyy mm
dd dow hh mm ss
    }
}

InstanceExtraInfo = {
    // Set special days to 30 entries
    LogicalName = '0-0:11.0.0.255'
    ClassId = 11
    AttributeExtraInfo = {
        AttributeId = 2
        SetData = '\<Data>'
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+       <LongUnsigned Value="001E" />'
+       <OctetString Value="FFFF0101FF" />'
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```

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  }
}

```

```

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

  ImageTransfer = {
    ImageIdentifier = '\WSE12000aMeter351V1.0---0001'
    ImageFileName = '\WSE351EL04010010-(Legal)_s.bin'
    Timeout = 600000
  }

  PushTimeout = 150000
  MinInterWPDUFramesDelay = 2000
  ProfilePeriodsQty = 6
  CaptureDelay = 10000
  ClipCallDuration = 20000

  AutoConnect = {
    Repetitions = 0
    RepetitionDelay = 0
  }

  PushSetup = {
    NumberOfRetries = 1
    RepetitionDelay = 30
  }

  WakeUpDelay = 30000
  DisconnectToSendSMSDelay = 10000
  DataNotificationToDisconnectDelay = 3000
}

RemoteSecurityElements = {
  Public = {
    ContextName = LONG_NAMES
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }
  Management = {
    ContextName = LONG_NAMES_WITH_CIPHERING
    MechanismName = HIGH_LEVEL_SECURITY_GMAC
    Policy = AUTHENTICATION_AND_ENCRYPTION
    Password = '\12345678'
  }
  PreEstablished = {
    Policy = AUTHENTICATION_AND_ENCRYPTION
    ServerMaxReceivePduSize = 1200
    CipherringStyle = GENERAL
  }
}

```

```

    }
}

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

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

HDLCPProfile = {
    PhysicalLayer = {
        OpeningMode = DIRECT_HDLC
        HdlcBaud = 9600
    }
    DataLinkLayer = {
        InactivityTimeout = 180000
        InterFrameTimeout = 150
        ResponseTimeout = 3000
        DISCToNDMTimeout = 3000
        AddressingSchemes = [FOUR_BYTES_ADDRESSING]
        ServerLowerMACAddress = 17
    }
}

TCPProfile = {
    ServerTCPPort = 4059
    ResponseTimeout = 60000
    ConnectTimeout = 30000
    DisconnectToConnectDelay = 3000
}

G3PLCProfile = {
    ResponseTimeout = 20000
    FrequencyBand = CENELEC_A
    ConnectTimeout = 20000
    UDPPort = 61616
    PSK = "DBC142BB124A2AAA125D67FF418368D5"
}

// END CTI_Template

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

TestMode: TCP
Test Plan Signature: DACF66B3C5D3456427BD1C6419F470BD
Object Model: IDIS-S02-002 - object model Pack2 Ed2.0 - V2.29 (20200831)-FIT MBUS
Tests G350 (CorrectedAndValve status).xlsx
DUT system title: 534D536770383836

```

Fit #92

Device:SMSC IM351

DNV-GL,Arnhem, Netherlands, 15.09.2022

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Run number:	1931
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