

Final Interoperability Test Report

FIT #: **80**
 Date: 02/11/2022
 Location: DNV-GL, Arnhem, Netherlands
 Page 1 of 45

APPLICANT

Company: Iskraemeco d.d.

Address: Savska loka 4, 4000 Kranj, Slovenia

DEVICE		
Device type	Single-Phase AM550-Exy.2 + AC150-A5 LTE	
Type indication on MID certificate		MID Certificate No.
AM550	301-022-M14R01	
IDIS Specification reference	DNV-gl IDIS Certification run No	Digital signature of the test report.
Package 2 ed. 2.0	1760	2B4D3E56D847339EDC84654284E66CDE
First certification	IDIS Label	Modular device
<input type="checkbox"/>	0030-4	<input checked="" type="checkbox"/>
General information about the device		
Module: AC150-A5 LTE		

FIRMWARE VERSIONS TESTED				Final Interoperability Test No. 80
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
4	\ISK551EC012000 04	\ISK551EA012000 16		Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

Fit #80

Device: Iskraemeco AM550E + AC150-A5 LTE

DNV-GL, Arnhem, Netherlands, 02.11.2022

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FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
4	\ISK551EC012000 04	\ISK551EA012000 16		80	Passed

TEST REPORT - Firmware No. 1		
Test	Verdict	Remark
Connect and release	Passed	
All Device IDs	Passed	
COSEM logical device name	Passed	
SAP assignment	Passed	
FW version and signature	Passed	
All Device ID's	Passed	
Broadcast Date and time	Passed	
Broadcast Special Days Table	Passed	
Event logs	Passed	
Billing data period 1	Passed	
M-Bus Channel Setup	Passed	
M-Bus Results	Passed	
M-Bus Devices IDs	Passed	
M-Bus profiles	Passed	
M-Bus Load profiles	Passed	
M-Bus control logs	Passed	
M-Bus Disconnect log	Passed	
FIT Push	Passed	
FIT Miscellaneous	Passed	
Optical Port Connectivity	Passed	
Consumer Information Interface	Passed	
FIT Conformance Test Report		
<pre> ***** IDIS Conformance test report 11-FEB-2022 10:10:46 iCTT2 Package 2, Edition 2.0, Revision 1 (136) Licensed to: KEMA-IDIS Cert. Tester: Tom Levels ***** ***** * Identification * ***** Manufacturer = { Name = '\Iskraemeco' ThreeLettersId = '\ISK' } DeviceUnderTest = { Type = '\ISK AM550-Exy.2 + AC150-A5 LTE' IDISDeviceType = 102 IDISFunctionType = [EXTENSION_D, EXTENSION_L, EXTENSION_M] SerialNr = 20215101 IPVersion = IPV4 DataLinkLayer = GPRS ConsumerInformationPush = TRUE SMSSupported = FALSE ClipCallSupported = FALSE } Active firmware identifier (1-0:0.2.0.255) = \ISK551EC01200004 Active firmware identifier 1 (1-1:0.2.0.255) = \ISK551EA01200016 ***** * Summary * ***** PASSED 267 FAILED 0 DISABLED 0 INAPPLICABLE 8 INCONCLUSIVE 0 </pre>		

FATAL	0	
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="\20215101" />		
</Data>		
Mngmt Get Device ID 2 0-0:96.1.1.255 (@50)		
(3) .logical_name		PASSED
<Data>		
<OctetString Value="0000600101FF" />		
</Data>		
(4) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		
Mngmt Get Device ID 3 0-0:96.1.2.255 (@54)		
(5) .logical_name		PASSED
<Data>		
<OctetString Value="0000600102FF" />		
</Data>		
(6) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		
Mngmt Get Device ID 4 0-0:96.1.3.255 (@58)		
(7) .logical_name		PASSED
<Data>		
<OctetString Value="0000600103FF" />		
</Data>		
(8) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		
Mngmt Get Device ID 5 0-0:96.1.4.255 (@62)		
(9) .logical_name		PASSED
<Data>		
<OctetString Value="0000600104FF" />		
</Data>		
(10) .value		PASSED
<Data>		
<OctetString Value="" />		
</Data>		
Mngmt Get Device ID 6, IDIS certification number 0-0:96.1.5.255 (@66)		
(11) .logical_name		PASSED
<Data>		
<OctetString Value="0000600105FF" />		
</Data>		
(12) .value		PASSED
<Data>		
<OctetString Value="" />		

```

</Data>

*****
Test Case 3 : Read COSEM Logical Device Name, 2 item(s)
*****

Mngmt Get COSEM logical device name 0-0:42.0.0.255 (@42)
(1) .logical_name PASSED
    <Data>
    <OctetString Value="00002A0000FF" />
    </Data>
(2) .value PASSED
    <Data>
    <OctetString Value="\ISK1020720215101" />
    </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="\ISK1020720215101" />
    </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="\ISK551EC01200004" />
    </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="5DA4131571D05D0686AF614355EC26D5A349C654A8B8A175D348D809FE833FA1F27862A585FD0A601CFABC
063CFA71BF0D73F5452BF12EF67389A3FF8E6E8840" />
    </Data>

Mngmt Get Active firmware identifier 1 1-1:0.2.0.255 (@420)
(5) .logical_name PASSED
    <Data>
    <OctetString Value="0101000200FF" />
    </Data>
(6) .value PASSED
    <Data>
    <OctetString Value="\ISK551EA01200016" />
    </Data>

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

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    <Data>
      <OctetString Value="0101000208FF" />
    </Data>
(8) .value PASSED
    <Data>
      <OctetString
Value="C57EF0607E1E6DA85CE46CF5060BB41386B60257579966A04517D717ED2A2379F6EF9D318E0BB319670328
841C584327765348337447B6FE9EB30ECDE817C233" />
      </Data>

Mngmt Get Active firmware identifier 2 1-2:0.2.0.255 (@428)
(9) .logical_name
INAPPLICABLE
  Optional object is not implemented
(10) .value
INAPPLICABLE
  Optional object is not implemented

Mngmt Get Active firmware signature 2 1-2:0.2.8.255 (@432)
(11) .logical_name
INAPPLICABLE
  Optional object is not implemented
(12) .value
INAPPLICABLE
  Optional object is not implemented

*****
Test Case 6 : Set Clock, 1 item(s)
*****

Pre Set Clock 0-0:1.0.0.255 (@75)
(1) .time PASSED
    <Data>
      <OctetString Value="07E6020BFF0D0000FF8000FF" />
    </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="07E6020B050D00000AFFC400" />
    </Data>

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

Pre Set Special Days Table 0-0:11.0.0.255 (@125)
(1) .entries PASSED
    <Data>
      <Array Qty="001E" >
        <Structure Qty="0003" >
          <LongUnsigned Value="0001" />
          <OctetString Value="FFFF0101FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="0002" />
          <OctetString Value="FFFF0102FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="0003" />
          <OctetString Value="FFFF0103FF" />
          <Unsigned Value="02" />
        </Structure>
        <Structure Qty="0003" >
          <LongUnsigned Value="0004" />
          <OctetString Value="FFFF0104FF" />
          <Unsigned Value="02" />
        </Structure>
      </Array>
    </Data>

```

```

</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0005" />
  <OctetString Value="FFFF0105FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0006" />
  <OctetString Value="FFFF0106FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0007" />
  <OctetString Value="FFFF0107FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0008" />
  <OctetString Value="FFFF0108FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0009" />
  <OctetString Value="FFFF0109FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000A" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000B" />
  <OctetString Value="FFFF0201FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000C" />
  <OctetString Value="FFFF0202FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000D" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000E" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000F" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0010" />
  <OctetString Value="FFFF0206FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0011" />
  <OctetString Value="FFFF0207FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0012" />
  <OctetString Value="FFFF0208FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0013" />

```

```

    <OctetString Value="FFFF0209FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0014" />
    <OctetString Value="FFFF020AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0015" />
    <OctetString Value="FFFF0301FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0016" />
    <OctetString Value="FFFF0302FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0017" />
    <OctetString Value="FFFF0303FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0018" />
    <OctetString Value="FFFF0304FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0019" />
    <OctetString Value="FFFF0305FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001A" />
    <OctetString Value="FFFF0306FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001B" />
    <OctetString Value="FFFF0307FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001C" />
    <OctetString Value="FFFF0308FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001D" />
    <OctetString Value="FFFF0309FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001E" />
    <OctetString Value="FFFF030AFF" />
    <Unsigned Value="02" />
  </Structure>
</Array>
</Data>

```

```

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

```

```

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

```

PASSED

```

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

```



```

</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0002" />
  <OctetString Value="FFFF0102FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0003" />
  <OctetString Value="FFFF0103FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0004" />
  <OctetString Value="FFFF0104FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0005" />
  <OctetString Value="FFFF0105FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0006" />
  <OctetString Value="FFFF0106FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0007" />
  <OctetString Value="FFFF0107FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0008" />
  <OctetString Value="FFFF0108FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0009" />
  <OctetString Value="FFFF0109FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000A" />
  <OctetString Value="FFFF010AFF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000B" />
  <OctetString Value="FFFF0201FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000C" />
  <OctetString Value="FFFF0202FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000D" />
  <OctetString Value="FFFF0203FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000E" />
  <OctetString Value="FFFF0204FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="000F" />
  <OctetString Value="FFFF0205FF" />
  <Unsigned Value="02" />
</Structure>
<Structure Qty="0003" >
  <LongUnsigned Value="0010" />

```

```

    <OctetString Value="FFFF0206FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0011" />
    <OctetString Value="FFFF0207FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0012" />
    <OctetString Value="FFFF0208FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0013" />
    <OctetString Value="FFFF0209FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0014" />
    <OctetString Value="FFFF020AFF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0015" />
    <OctetString Value="FFFF0301FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0016" />
    <OctetString Value="FFFF0302FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0017" />
    <OctetString Value="FFFF0303FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0018" />
    <OctetString Value="FFFF0304FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="0019" />
    <OctetString Value="FFFF0305FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001A" />
    <OctetString Value="FFFF0306FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001B" />
    <OctetString Value="FFFF0307FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001C" />
    <OctetString Value="FFFF0308FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001D" />
    <OctetString Value="FFFF0309FF" />
    <Unsigned Value="02" />
  </Structure>
  <Structure Qty="0003" >
    <LongUnsigned Value="001E" />
    <OctetString Value="FFFF030AFF" />
    <Unsigned Value="02" />
  </Structure>

```

```

        </Array>
    </Data>

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

Mngmt Get Disconnecter Control Log 0-0:99.98.2.255 (@193)
(1) .logical_name PASSED
    <Data>
    <OctetString Value="0000636202FF" />
    </Data>
(2) .buffer PASSED
    Earliest date: 27-AUG-2021 19:06:30, latest date: 13-JAN-2022 06:13:26
    Middle date: 12-JAN-2022 10:04:52
(3) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="0000006B" />
    </Data>
(4) .profile_entries PASSED
    <Data>
    <DoubleLongUnsigned Value="00000078" />
    </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-JAN-2021 23:59:55, latest date: 11-FEB-2022 13:00:00
    Middle date: 25-JAN-2022 23:59:55
(7) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="00000064" />
    </Data>
(8) .profile_entries PASSED
    <Data>
    <DoubleLongUnsigned Value="00000064" />
    </Data>

Mngmt Get Fraud Detection Log 0-0:99.98.1.255 (@316)
(9) .logical_name PASSED
    <Data>
    <OctetString Value="0000636201FF" />
    </Data>
(10) .buffer PASSED
    Earliest date: 27-AUG-2021 18:29:09, latest date: 11-FEB-2022 10:05:32
    Middle date: 12-JAN-2022 13:27:04
(11) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="0000001C" />
    </Data>
(12) .profile_entries PASSED
    <Data>
    <DoubleLongUnsigned Value="0000001E" />
    </Data>

Mngmt Get Communication Log 0-0:99.98.5.255 (@331)
(13) .logical_name PASSED
    <Data>
    <OctetString Value="0000636205FF" />
    </Data>
(14) .buffer PASSED
    Earliest date: 10-AUG-2021 18:50:36, latest date: 27-JAN-2022 09:57:09
    Middle date: 27-AUG-2021 20:40:35
(15) .entries_in_use PASSED
    <Data>
    <DoubleLongUnsigned Value="00000074" />
    </Data>
(16) .profile_entries PASSED
    <Data>
    <DoubleLongUnsigned Value="000000FF" />

```

```

        </Data>

Mngmt Get Power Quality Log 0-0:99.98.4.255 (@1340)
(17) .logical_name PASSED
    <Data>
        <OctetString Value="0000636204FF" />
    </Data>
(18) .buffer PASSED
    Earliest date: 10-AUG-2021 18:54:45, latest date: 27-JAN-2022 09:56:43
    Middle date: 12-JAN-2022 11:38:34
(19) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000018" />
    </Data>
(20) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="00000064" />
    </Data>

*****
Test Case 11 : Reading Data of Billing Period 1, 8 item(s)
*****

Mngmt Get Data of billing period 1 0-0:98.1.0.255 (@158)
(1) .logical_name PASSED
    <Data>
        <OctetString Value="0000620100FF" />
    </Data>
(2) .buffer PASSED
    Earliest date: 02-JAN-2021 00:00:00, latest date: 02-AUG-2022 00:00:00
    Middle date: 02-AUG-2022 00:00:00
(3) .capture_objects PASSED
    <Data>
        <Array Qty="0005" >
            <Structure Qty="0004" >
                <LongUnsigned Value="0008" />
                <OctetString Value="0000010000FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned Value="0003" />
                <OctetString Value="0100010801FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned Value="0003" />
                <OctetString Value="0100010802FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned Value="0003" />
                <OctetString Value="0100020801FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
            <Structure Qty="0004" >
                <LongUnsigned Value="0003" />
                <OctetString Value="0100020802FF" />
                <Integer Value="02" />
                <LongUnsigned Value="0000" />
            </Structure>
        </Array>
    </Data>
(4) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000000" />
    </Data>
(5) .sort_method PASSED
    <Data>
        <Enum Value="01" />
    </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="B2" />	
	</Data>	
(15)	.status	PASSED
	<Data>	
	<Unsigned Value="64" />	
	</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="0002" >	
	<Structure Qty="0002" >	
	<OctetString Value="\L" />	
	<OctetString Value="933A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="8940" />	
	<OctetString Value="FD1A" />	
	</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="AB" />	
	</Data>	
(27)	.status	PASSED
	<Data>	
	<Unsigned Value="24" />	
	</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="0002" >	
	<Structure Qty="0002" >	
	<OctetString Value="\L" />	
	<OctetString Value="933A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="8940" />	
	<OctetString Value="FD1A" />	
	</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="99" />	
	</Data>	
(39)	.status	PASSED
	<Data>	
	<Unsigned Value="24" />	
	</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="0002" >	
	<Structure Qty="0002" >	
	<OctetString Value="\L" />	
	<OctetString Value="933A" />	
	</Structure>	
	<Structure Qty="0002" >	
	<OctetString Value="8940" />	
	<OctetString Value="FD1A" />	
	</Structure>	
	</Array>	
	</Data>	
(44)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000E10" />	
	</Data>	
(45)	.primary_address	PASSED
	<Data>	
	<Unsigned Value="04" />	
	</Data>	
(46)	.identification_number	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00047BB3" />	
	</Data>	
(47)	.manufacturer_id	PASSED
	<Data>	
	<LongUnsigned Value="19AC" />	
	</Data>	
(48)	.version	PASSED
	<Data>	
	<Unsigned Value="02" />	
	</Data>	
(49)	.device_type	PASSED
	<Data>	
	<Unsigned Value="03" />	
	</Data>	
(50)	.access_number	PASSED
	<Data>	
	<Unsigned Value="CC" />	
	</Data>	
(51)	.status	PASSED
	<Data>	
	<Unsigned Value="24" />	
	</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="00000F59" />	
	</Data>	
(3)	.scaler_unit	PASSED
	<Data>	

	<pre> <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="07E6020B050D000100FFC400" /> </Data> Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1670) (6) .logical_name PASSED <Data> <OctetString Value="0001180202FF" /> </Data> (7) .value PASSED <Data> <DoubleLongUnsigned Value="00000001" /> </Data> (8) .scaler_unit PASSED <Data> <Structure Qty="0002" > <Integer Value="00" /> <Enum Value="FF" /> </Structure> </Data> (9) .status PASSED <Data> <Unsigned Value="00" /> </Data> (10) .capture_time PASSED <Data> <OctetString Value="07E6020B050D000100FFC400" /> </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="00000B4F" /> </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="07E6020B050D000200FFC400" /> </Data> Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1702) (16) .logical_name PASSED <Data> <OctetString Value="0002180202FF" /> </Data> (17) .value PASSED <Data> <DoubleLongUnsigned Value="00000001" /> </Data> </pre>
--	---

(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="07E6020B050D000200FFC400" />	
	</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="00000E42" />	
	</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="07E6020B050D000400FFC400" />	
	</Data>	
Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1734)		
(26)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0003180202FF" />	
	</Data>	
(27)	.value	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000001" />	
	</Data>	
(28)	.scaler_unit	PASSED
	<Data>	
	<Structure Qty="0002" >	
	<Integer Value="00" />	
	<Enum Value="FF" />	
	</Structure>	
	</Data>	
(29)	.status	PASSED
	<Data>	
	<Unsigned Value="00" />	
	</Data>	
(30)	.capture_time	PASSED
	<Data>	
	<OctetString Value="07E6020B050D000400FFC400" />	
	</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="00000A8E" />
    </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="07E6020B050D000500FFC400" />
    </Data>

Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1766)
(36) .logical_name PASSED
    <Data>
        <OctetString Value="0004180202FF" />
    </Data>
(37) .value PASSED
    <Data>
        <DoubleLongUnsigned Value="00000001" />
    </Data>
(38) .scaler_unit PASSED
    <Data>
        <Structure Qty="0002" >
            <Integer Value="00" />
            <Enum Value="FF" />
        </Structure>
    </Data>
(39) .status PASSED
    <Data>
        <Unsigned Value="00" />
    </Data>
(40) .capture_time PASSED
    <Data>
        <OctetString Value="07E6020B050D000500FFC400" />
    </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="\00000540029380911" />
    </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="\00000540029381011" />
    </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="\00000540029381211" />
    </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="\00000540029381111" />
    </Data>

Mngmt Get M-Bus Device ID 2 channel 1 0-1:96.1.1.255 (@1806)
(9) .logical_name PASSED
    <Data>
    <OctetString Value="0001600101FF" />
    </Data>
(10) .value PASSED
    <Data>
    <OctetString Value="" />
    </Data>

Mngmt Get M-Bus Device ID 2 channel 2 0-2:96.1.1.255 (@1810)
(11) .logical_name PASSED
    <Data>
    <OctetString Value="0002600101FF" />
    </Data>
(12) .value PASSED
    <Data>
    <OctetString Value="" />
    </Data>

Mngmt Get M-Bus Device ID 2 channel 3 0-3:96.1.1.255 (@1814)
(13) .logical_name PASSED
    <Data>
    <OctetString Value="0003600101FF" />
    </Data>
(14) .value PASSED
    <Data>
    <OctetString Value="" />
    </Data>

Mngmt Get M-Bus Device ID 2 channel 4 0-4:96.1.1.255 (@1818)
(15) .logical_name PASSED
    <Data>
    <OctetString Value="0004600101FF" />
    </Data>
(16) .value PASSED
    <Data>
    <OctetString Value="" />
    </Data>

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

Mngmt Get M-Bus Master Load profile for channel 1 0-1:24.3.0.255 (@1838)
(1) .logical_name PASSED
    <Data>
    <OctetString Value="0001180300FF" />
    </Data>
(2) .buffer PASSED
    Earliest date: 02-JAN-2021 00:00:00, latest date: 11-FEB-2022 13:00:00
    Middle date: 10-FEB-2022 22:00:00
(3) .capture_objects PASSED
    <Data>
    <Array Qty="0003" >
    <Structure Qty="0004" >
    <LongUnsigned Value="0008" />
    <OctetString Value="0000010000FF" />
    <Integer Value="02" />
    </Structure>
    </Array>
    </Data>

```

```

        <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>
</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="0000001D" />
    </Data>
(8) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000002D0" />
    </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: 02-JAN-2021 00:00:00, latest date: 11-FEB-2022 13:00:00
    Middle date: 10-FEB-2022 22:00:00
(11) .capture_objects PASSED
    <Data>
        <Array Qty="0003" >
            <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>
        </Array>
    </Data>

```

(12)	.capture_period	PASSED
	<Data>	
	<DoubleLongUnsigned Value="00000E10" />	
	</Data>	
(13)	.sort_method	PASSED
	<Data>	
	<Enum Value="01" />	
	</Data>	
(14)	.sort_object	PASSED
	<Data>	
	<Structure Qty="0004" >	
	<LongUnsigned Value="0008" />	
	<OctetString Value="0000010000FF" />	
	<Integer Value="02" />	
	<LongUnsigned Value="0000" />	
	</Structure>	
	</Data>	
(15)	.entries_in_use	PASSED
	<Data>	
	<DoubleLongUnsigned Value="0000001D" />	
	</Data>	
(16)	.profile_entries	PASSED
	<Data>	
	<DoubleLongUnsigned Value="000002D0" />	
	</Data>	
Mngmt Get M-Bus Master Load profile for channel 3 0-3:24.3.0.255 (@1860)		
(17)	.logical_name	PASSED
	<Data>	
	<OctetString Value="0003180300FF" />	
	</Data>	
(18)	.buffer	PASSED
	Earliest date: 02-JAN-2021 00:00:00, latest date: 11-FEB-2022 13:00:00	
	Middle date: 10-FEB-2022 22:00:00	
(19)	.capture_objects	PASSED
	<Data>	
	<Array Qty="0003" >	
	<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>	
	</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>	

<code></Data></code>		
(23)	<code>.entries_in_use</code>	PASSED
<code><Data></code>		
<code><DoubleLongUnsigned Value="0000001D" /></code>		
<code></Data></code>		
(24)	<code>.profile_entries</code>	PASSED
<code><Data></code>		
<code><DoubleLongUnsigned Value="000002D0" /></code>		
<code></Data></code>		
Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1871)		
(25)	<code>.logical_name</code>	PASSED
<code><Data></code>		
<code><OctetString Value="0004180300FF" /></code>		
<code></Data></code>		
(26)	<code>.buffer</code>	PASSED
Earliest date: 02-JAN-2021 00:00:00, latest date: 11-FEB-2022 13:00:00		
Middle date: 10-FEB-2022 22:00:00		
(27)	<code>.capture_objects</code>	PASSED
<code><Data></code>		
<code><Array Qty="0003" ></code>		
<code><Structure Qty="0004" ></code>		
<code><LongUnsigned Value="0008" /></code>		
<code><OctetString Value="0000010000FF" /></code>		
<code><Integer Value="02" /></code>		
<code><LongUnsigned Value="0000" /></code>		
<code></Structure></code>		
<code><Structure Qty="0004" ></code>		
<code><LongUnsigned Value="0001" /></code>		
<code><OctetString Value="0004600A03FF" /></code>		
<code><Integer Value="02" /></code>		
<code><LongUnsigned Value="0000" /></code>		
<code></Structure></code>		
<code><Structure Qty="0004" ></code>		
<code><LongUnsigned Value="0004" /></code>		
<code><OctetString Value="0004180201FF" /></code>		
<code><Integer Value="02" /></code>		
<code><LongUnsigned Value="0000" /></code>		
<code></Structure></code>		
<code></Array></code>		
<code></Data></code>		
(28)	<code>.capture_period</code>	PASSED
<code><Data></code>		
<code><DoubleLongUnsigned Value="00000E10" /></code>		
<code></Data></code>		
(29)	<code>.sort_method</code>	PASSED
<code><Data></code>		
<code><Enum Value="01" /></code>		
<code></Data></code>		
(30)	<code>.sort_object</code>	PASSED
<code><Data></code>		
<code><Structure Qty="0004" ></code>		
<code><LongUnsigned Value="0008" /></code>		
<code><OctetString Value="0000010000FF" /></code>		
<code><Integer Value="02" /></code>		
<code><LongUnsigned Value="0000" /></code>		
<code></Structure></code>		
<code></Data></code>		
(31)	<code>.entries_in_use</code>	PASSED
<code><Data></code>		
<code><DoubleLongUnsigned Value="0000001D" /></code>		
<code></Data></code>		
(32)	<code>.profile_entries</code>	PASSED
<code><Data></code>		
<code><DoubleLongUnsigned Value="000002D0" /></code>		
<code></Data></code>		

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)	<code>.logical_name</code>	PASSED

```

    <Data>
      <OctetString Value="0001180500FF" />
    </Data>
(2) .buffer PASSED
    Earliest date: 11-JAN-2022 15:41:57, latest date: 12-JAN-2022 11:22:49
    Middle date: 12-JAN-2022 11:22:34
(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="0008" />
        <OctetString Value="0000010000FF" />
        <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="0000000C" />
    </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: 11-JAN-2022 15:41:59, latest date: 12-JAN-2022 11:25:52
    Middle date: 12-JAN-2022 11:25:43
(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 <Data> <DoubleLongUnsigned Value="00000000" /> </Data>	PASSED
(13)	.sort_method <Data> <Enum Value="01" /> </Data>	PASSED
(14)	.sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data>	PASSED
(15)	.entries_in_use <Data> <DoubleLongUnsigned Value="00000006" /> </Data>	PASSED
(16)	.profile_entries <Data> <DoubleLongUnsigned Value="0000000C" /> </Data>	PASSED
Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1963)		
(17)	.logical_name <Data> <OctetString Value="0003180500FF" /> </Data>	PASSED
(18)	.buffer Earliest date: 11-JAN-2022 15:42:02, latest date: 12-JAN-2022 11:27:55 Middle date: 12-JAN-2022 11:27:46	PASSED
(19)	.capture_objects <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0003600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data>	PASSED
(20)	.capture_period <Data> <DoubleLongUnsigned Value="00000000" /> </Data>	PASSED
(21)	.sort_method <Data> <Enum Value="01" /> </Data>	PASSED
(22)	.sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data>	PASSED
(23)	.entries_in_use <Data> <DoubleLongUnsigned Value="00000006" /> </Data>	PASSED

(24)	.profile_entries <Data> <DoubleLongUnsigned Value="0000000C" /> </Data>	PASSED
	Mngmt Get M-Bus Master Control log object 4 0-4:24.5.0.255 (@1974)	
(25)	.logical_name <Data> <OctetString Value="0004180500FF" /> </Data>	PASSED
(26)	.buffer Earliest date: 11-JAN-2022 15:42:04, latest date: 12-JAN-2022 11:29:51 Middle date: 12-JAN-2022 11:29:42	PASSED
(27)	.capture_objects <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> <Structure Qty="0004" > <LongUnsigned Value="0001" /> <OctetString Value="0004600B04FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Array> </Data>	PASSED
(28)	.capture_period <Data> <DoubleLongUnsigned Value="00000000" /> </Data>	PASSED
(29)	.sort_method <Data> <Enum Value="01" /> </Data>	PASSED
(30)	.sort_object <Data> <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure> </Data>	PASSED
(31)	.entries_in_use <Data> <DoubleLongUnsigned Value="00000006" /> </Data>	PASSED
(32)	.profile_entries <Data> <DoubleLongUnsigned Value="0000000C" /> </Data>	PASSED
	Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1989)	
(33)	.logical_name <Data> <OctetString Value="0000636203FF" /> </Data>	PASSED
(34)	.buffer Earliest date: 02-JAN-2021 00:59:56, latest date: 11-FEB-2022 13:00:04 Middle date: 02-JAN-2021 04:59:56	PASSED
(35)	.capture_objects <Data> <Array Qty="0002" > <Structure Qty="0004" > <LongUnsigned Value="0008" /> <OctetString Value="0000010000FF" /> <Integer Value="02" /> <LongUnsigned Value="0000" /> </Structure>	PASSED

```

        <Structure Qty="0004" >
            <LongUnsigned Value="0001" />
            <OctetString Value="0000600B03FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Array>
</Data>
(36) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000000" />
    </Data>
(37) .sort_method PASSED
    <Data>
        <Enum Value="01" />
    </Data>
(38) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0008" />
            <OctetString Value="0000010000FF" />
            <Integer Value="02" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(39) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000001E" />
    </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="01" />
    </Data>
(3) .control_state PASSED
    <Data>
        <Enum Value="00" />
    </Data>
(4) .control_mode PASSED
    <Data>
        <Enum Value="01" />
    </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="01" />
    </Data>
(7) .control_state PASSED
    <Data>
        <Enum Value="02" />
    </Data>
(8) .control_mode PASSED
    <Data>
        <Enum Value="01" />
    </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="01" />
    </Data>
(11) .control_state PASSED
    <Data>
      <Enum Value="02" />
    </Data>
(12) .control_mode PASSED
    <Data>
      <Enum Value="01" />
    </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="01" />
    </Data>
(15) .control_state PASSED
    <Data>
      <Enum Value="02" />
    </Data>
(16) .control_mode PASSED
    <Data>
      <Enum Value="01" />
    </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="0001" />
      </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="FFFFFFFF" />
        </Structure>
      </Array>
    </Data>

Mngmt Get M-Bus Disconnect 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" />
        </Structure>
      </Array>
    </Data>

```

```

<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 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 PASSED

 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
// 1.6

Manufacturer = {
    Name = '\Iskraemeco'
    ThreeLettersId = '\ISK'
}

DeviceUnderTest = {
    Type = '\ISK AM550-Exy.2 + AC150-A5 LTE'
    IDISDeviceType = 102
    IDISFunctionType = [Extension_D, Extension_L, Extension_M]
    SerialNr = 20215101
    IPVersion = IPv4
    DataLinkLayer = GPRS
    ConsumerInformationPush = TRUE
    SMSSupported = FALSE
    ClipCallSupported = FALSE
}

TestOptions =
{
}

ObjectModel = {
    // Optional objects implemented
    OptionalObjects = '\
    + '1-0:0.9.1.255|1,' // Local Time (@86)
    + '1-0:0.9.2.255|1,' // Local Date (@90)
    + '0-2:96.3.10.255|70,' // Load Mgmt - Relay control 2 (@217)
    + '1-1:0.2.0.255|1,' // Active firmware identifier 1 (@420)
    + '1-1:0.2.8.255|1,' // Active firmware signature 1 (@424)
    + '1-0:9.8.0.255|3,' // Apparent energy import (+VA) (QI+QIV) (@497)
    + '1-0:10.8.0.255|3,' // Apparent energy export (-VA) (QII+QIII) (@503)
    + '1-0:5.8.1.255|3,' // Reactive energy (QI) rate 1 (@606)
    + '1-0:5.8.2.255|3,' // Reactive energy (QI) rate 2 (@612)
    + '1-0:5.8.3.255|3,' // Reactive energy (QI) rate 3 (@618)
    + '1-0:5.8.4.255|3,' // Reactive energy (QI) rate 4 (@624)
    + '1-0:6.8.1.255|3,' // Reactive energy (QII) rate 1 (@630)
    + '1-0:6.8.2.255|3,' // Reactive energy (QII) rate 2 (@636)
    + '1-0:6.8.3.255|3,' // Reactive energy (QII) rate 3 (@642)
    + '1-0:6.8.4.255|3,' // Reactive energy (QII) rate 4 (@648)
    + '1-0:7.8.1.255|3,' // Reactive energy (QIII) rate 1 (@654)
    + '1-0:7.8.2.255|3,' // Reactive energy (QIII) rate 2 (@660)
    + '1-0:7.8.3.255|3,' // Reactive energy (QIII) rate 3 (@666)
    + '1-0:7.8.4.255|3,' // Reactive energy (QIII) rate 4 (@672)
    + '1-0:8.8.1.255|3,' // Reactive energy (QIV) rate 1 (@678)
    + '1-0:8.8.2.255|3,' // Reactive energy (QIV) rate 2 (@684)
    + '1-0:8.8.3.255|3,' // Reactive energy (QIV) rate 3 (@690)
    + '1-0:8.8.4.255|3,' // Reactive energy (QIV) rate 4 (@696)
    + '1-0:9.8.1.255|3,' // Apparent energy import (+VA) rate 1 (@702)
    + '1-0:9.8.2.255|3,' // Apparent energy import (+VA) rate 2 (@708)
    + '1-0:9.8.3.255|3,' // Apparent energy import (+VA) rate 3 (@714)
    + '1-0:9.8.4.255|3,' // Apparent energy import (+VA) rate 4 (@720)
    + '1-0:10.8.1.255|3,' // Apparent energy export (-VA) rate 1 (@726)
    + '1-0:10.8.2.255|3,' // Apparent energy export (-VA) rate 2 (@732)
    + '1-0:10.8.3.255|3,' // Apparent energy export (-VA) rate 3 (@738)
    + '1-0:10.8.4.255|3,' // Apparent energy export (-VA) rate 4 (@744)
    + '1-0:15.8.1.255|3,' // Active energy Combined total (|+A|+|-A|) rate 1 (@750)
    + '1-0:15.8.2.255|3,' // Active energy Combined total (|+A|+|-A|) rate 2 (@756)
    + '1-0:15.8.3.255|3,' // Active energy Combined total (|+A|+|-A|) rate 3 (@762)
    + '1-0:15.8.4.255|3,' // Active energy Combined total (|+A|+|-A|) rate 4 (@768)
    + '1-0:9.4.0.255|5,' // Demand Register 5 - Apparent energy import (+VA) (@827)
    + '1-0:10.4.0.255|5,' // Demand Register 6 - Apparent energy export (-VA) (@840)
    + '1-0:1.5.0.255|4,' // Last Average Demand Register 1 - Active energy import (+A) (@853)
    + '1-0:2.5.0.255|4,' // Last Average Demand Register 2 - Active energy export (-A)
    (@861)
    + '1-0:3.5.0.255|4,' // Last Average Demand Register 3 - Reactive energy import (+R)
    (@869)

```



```

+ '1-0:4.5.0.255|4,' // Last Average Demand Register 4 - Reactive energy export (-R)
(@877)
+ '1-0:9.5.0.255|4,' // Last Average Demand Register 5 - Apparent energy import (+VA)
(@885)
+ '1-0:10.5.0.255|4,' // Last Average Demand Register 6 - Apparent energy export (-VA)
(@893)
+ '1-0:9.6.0.255|4,' // Maximum Demand Register 21 - Apparent energy import (+VA) (@1061)
+ '1-0:9.6.1.255|4,' // Maximum Demand Register 22 - Apparent energy import (+VA) - rate
1 (@1069)
+ '1-0:9.6.2.255|4,' // Maximum Demand Register 23 - Apparent energy import (+VA) - rate
2 (@1077)
+ '1-0:9.6.3.255|4,' // Maximum Demand Register 24 - Apparent energy import (+VA) - rate
3 (@1085)
+ '1-0:9.6.4.255|4,' // Maximum Demand Register 25 - Apparent energy import (+VA) - rate
4 (@1093)
+ '1-0:10.6.0.255|4,' // Maximum Demand Register 26 - Apparent energy export (-VA)
(@1101)
+ '1-0:10.6.1.255|4,' // Maximum Demand Register 27 - Apparent energy export (-VA) - rate
1 (@1109)
+ '1-0:10.6.2.255|4,' // Maximum Demand Register 28 - Apparent energy export (-VA) - rate
2 (@1117)
+ '1-0:10.6.3.255|4,' // Maximum Demand Register 29 - Apparent energy export (-VA) - rate
3 (@1125)
+ '1-0:10.6.4.255|4,' // Maximum Demand Register 30 - Apparent energy export (-VA) - rate
4 (@1133)
+ '1-0:14.7.0.255|3,' // Instantaneous net frequency; any phase (@1450)
+ '1-0:9.7.0.255|3,' // Instantaneous apparent import power (+VA) (@1486)
+ '1-0:10.7.0.255|3,' // Instantaneous apparent export power (-VA) (@1492)
+ '1-0:16.24.0.255|5,' // Average Net Power (|+A|-|-A|) (@1511)
+ '1-0:13.7.0.255|3,' // Instantaneous Power factor (+A/+VA) (@1537)
+ '1-0:13.5.0.255|4,' // Last Average Power factor (+A/+VA) (@1543)
+ '1-0:13.3.0.255|4,' // Minimum Power factor (+A/+VA) (@1551)
+ '1-0:0.8.2.255|3,' // Measurement Period 3 for Instantaneous values (@1559)
+ '0-0:20.0.0.255|19,' // IEC local port setup - IEC Optical port (@2001)
+ '0-5:25.9.0.255|40' // Push setup - On Power down (@2129)

InstanceExtraInfo = {
  LogicalName = '0-0:1.0.0.255'
  ClassId = 8
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><OctetString Value="07E6020BFF0D0000FF8000FF" /></Data>' // yyyy mm
dd dow hh mm ss
  }
}

InstanceExtraInfo = {
  // Set special days to 30 entries
  LogicalName = '0-0:11.0.0.255'
  ClassId = 11
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data>'
+ ' <Array Qty="1E" >'
+ ' <Structure Qty="03" >'
+ ' <LongUnsigned Value="0001" />'
+ ' <OctetString Value="FFFF0101FF" />'
+ ' <Unsigned Value="02" />'
+ ' </Structure>'
+ ' <Structure Qty="03" >'
+ ' <LongUnsigned Value="0002" />'
+ ' <OctetString Value="FFFF0102FF" />'
+ ' <Unsigned Value="02" />'
+ ' </Structure>'
+ ' <Structure Qty="03" >'
+ ' <LongUnsigned Value="0003" />'
+ ' <OctetString Value="FFFF0103FF" />'
+ ' <Unsigned Value="02" />'
+ ' </Structure>'
+ ' <Structure Qty="03" >'
+ ' <LongUnsigned Value="0004" />'
+ ' <OctetString Value="FFFF0104FF" />'
+ ' <Unsigned Value="02" />'

```

```

+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0005" />'
+'            <OctetString Value="FFFF0105FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0006" />'
+'            <OctetString Value="FFFF0106FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0007" />'
+'            <OctetString Value="FFFF0107FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0008" />'
+'            <OctetString Value="FFFF0108FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0009" />'
+'            <OctetString Value="FFFF0109FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="000A" />'
+'            <OctetString Value="FFFF010AFF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="000B" />'
+'            <OctetString Value="FFFF0201FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="000C" />'
+'            <OctetString Value="FFFF0202FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="000D" />'
+'            <OctetString Value="FFFF0203FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="000E" />'
+'            <OctetString Value="FFFF0204FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="000F" />'
+'            <OctetString Value="FFFF0205FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0010" />'
+'            <OctetString Value="FFFF0206FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0011" />'
+'            <OctetString Value="FFFF0207FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0012" />'
+'            <OctetString Value="FFFF0208FF" />'
+'            <Unsigned Value="02" />'
+'          </Structure>'
+'          <Structure Qty="03" >'
+'            <LongUnsigned Value="0013" />'

```

```

+'          <OctetString Value="FFFF0209FF" />'
+'          <Unsigned Value="02" />'
+'        </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0014" />'
+'        <OctetString Value="FFFF020AFF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned Value="0015" />'
+'      <OctetString Value="FFFF0301FF" />'
+'      <Unsigned Value="02" />'
+'    </Structure>'
+'  <Structure Qty="03" >'
+'    <LongUnsigned Value="0016" />'
+'    <OctetString Value="FFFF0302FF" />'
+'    <Unsigned Value="02" />'
+'  </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0017" />'
+'   <OctetString Value="FFFF0303FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0018" />'
+'   <OctetString Value="FFFF0304FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0019" />'
+'   <OctetString Value="FFFF0305FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001A" />'
+'   <OctetString Value="FFFF0306FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001B" />'
+'   <OctetString Value="FFFF0307FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001C" />'
+'   <OctetString Value="FFFF0308FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001D" />'
+'   <OctetString Value="FFFF0309FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="001E" />'
+'   <OctetString Value="FFFF030AFF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' </Array>'
+' </Data>'
}

InstanceExtraInfo = {
  // Current association (@9)
  LogicalName = '0-0:40.0.0.255'
  ClassId = 15
  AttributeExtraInfo = {
    // authentication_mechanism_name
    AttributeId = 6
    AccessRights = [GET,SET]
    SetData = '\<Data><OctetString Value="60857405080200" /></Data>'
  }
}

```

```

        MethodExtraInfo = {
            // change_HLS_secret
            MethodId = 2
            AccessRights = [ACTION]
        }
    }

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

InstanceExtraInfo = {
    // Register activation - Energy (@129)
    LogicalName = '0-0:14.0.1.255'
    ClassId = 6
    AttributeExtraInfo = {
        // register_assignment
        AttributeId = 2
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // Register activation - Maximum Demand (@135)
    LogicalName = '0-0:14.0.2.255'
    ClassId = 6
    AttributeExtraInfo = {
        // register_assignment
        AttributeId = 2
        AccessRights = [GET,SET]
    }
}

InstanceExtraInfo = {
    // Tariffication script table (@141)
    LogicalName = '0-0:10.0.100.255'
    ClassId = 9
    MethodExtraInfo = {
        // execute
        MethodId = 1
        AccessRights = [ACTION]
    }
}

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

InstanceExtraInfo = {
    // End of billing period 1 scheduler (@152)
    LogicalName = '0-0:15.0.0.255'
    ClassId = 22
    AttributeExtraInfo = {
        // type
        AttributeId = 3
        AccessRights = [GET,SET]
    }
}

```

```

InstanceExtraInfo = {
  // Disconnect control scheduler (@170)
  LogicalName = '0-0:15.0.1.255'
  ClassId = 22
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Load Mgmt - Relay control 1 (@209)
  LogicalName = '0-1:96.3.10.255'
  ClassId = 70
  AttributeExtraInfo = {
    // control_mode
    AttributeId = 4
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Load Mgmt - Relay control 2 (@217)
  LogicalName = '0-2:96.3.10.255'
  ClassId = 70
  AttributeExtraInfo = {
    // control_mode
    AttributeId = 4
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Limiter (@225)
  LogicalName = '0-0:17.0.0.255'
  ClassId = 71
  AttributeExtraInfo = {
    // actions
    AttributeId = 11
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Image transfer activation scheduler (@401)
  LogicalName = '0-0:15.0.2.255'
  ClassId = 22
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    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 = {
  LogicalName = '0-0:97.98.0.255'
  ClassId = 1
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><DoubleLongUnsigned Value = "00000000" /></Data>'
  }
}

```

```

}

InstanceExtraInfo = {
  LogicalName = '0-0:97.98.1.255'
  ClassId = 1
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><DoubleLongUnsigned Value = "00000000" /></Data>'
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:98.1.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:99.98.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:99.98.1.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:99.98.2.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:99.98.3.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:99.98.4.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:99.98.5.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

```

```

InstanceExtraInfo = {
  // Load profile with period 1 i.e. General Load Profile (@1146)
  LogicalName = '1-0:99.1.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
  AttributeExtraInfo = {
    // profile_entries
    AttributeId = 8
    AccessRights = [GET,SET]
    SetData = '\<Data><DoubleLongUnsigned Value = "00000000" /></Data>'
  }
}

InstanceExtraInfo = {
  // Load profile with period 2 i.e. Daily Values Profile (@1161)
  LogicalName = '1-0:99.2.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
  AttributeExtraInfo = {
    // profile_entries
    AttributeId = 8
    AccessRights = [GET,SET]
    SetData = '\<Data><DoubleLongUnsigned Value = "00000000" /></Data>'
  }
}

InstanceExtraInfo = {
  LogicalName = '1-0:99.97.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-1:24.3.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-2:24.3.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-3:24.3.0.255'
  ClassId = 7
  AttributeExtraInfo = {
    AttributeId = 2
    SelectiveAccessSelectors = [By_Range,By_Entry]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-4:24.3.0.255'
  ClassId = 7
  AttributeExtraInfo = {

```

```

        AttributeId = 2
        SelectiveAccessSelectors = [By_Range,By_Entry]
    }
}

InstanceExtraInfo = {
    LogicalName = '0-1:24.5.0.255'
    ClassId = 7
    AttributeExtraInfo = {
        AttributeId = 2
        SelectiveAccessSelectors = [By_Range,By_Entry]
    }
}

InstanceExtraInfo = {
    LogicalName = '0-2:24.5.0.255'
    ClassId = 7
    AttributeExtraInfo = {
        AttributeId = 2
        SelectiveAccessSelectors = [By_Range,By_Entry]
    }
}

InstanceExtraInfo = {
    LogicalName = '0-3:24.5.0.255'
    ClassId = 7
    AttributeExtraInfo = {
        AttributeId = 2
        SelectiveAccessSelectors = [By_Range,By_Entry]
    }
}

InstanceExtraInfo = {
    LogicalName = '0-4:24.5.0.255'
    ClassId = 7
    AttributeExtraInfo = {
        AttributeId = 2
        SelectiveAccessSelectors = [By_Range,By_Entry]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 1 (@1574)
    LogicalName = '0-1:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // capture
        MethodId = 3
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // reset_alarm
        MethodId = 4
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // data_send
        MethodId = 6
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 2 (@1596)
    LogicalName = '0-2:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // capture

```



```

        MethodId = 3
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // reset_alarm
        MethodId = 4
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // data_send
        MethodId = 6
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 3 (@1618)
    LogicalName = '0-3:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // capture
        MethodId = 3
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // reset_alarm
        MethodId = 4
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // data_send
        MethodId = 6
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {
    // M-Bus client channel 4 (@1640)
    LogicalName = '0-4:24.1.0.255'
    ClassId = 72
    MethodExtraInfo = {
        // capture
        MethodId = 3
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // reset_alarm
        MethodId = 4
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // synchronize_clock
        MethodId = 5
        AccessRights = [ACTION]
    }
    MethodExtraInfo = {
        // data_send
        MethodId = 6
        AccessRights = [ACTION]
    }
}

InstanceExtraInfo = {

```

```

// M-Bus Disconnect control scheduler (@1914)
LogicalName = '0-1:15.0.1.255'
ClassId = 22
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Push script table (@2139)
  LogicalName = '0-0:10.0.108.255'
  ClassId = 9
  AttributeExtraInfo = {
    // scripts
    AttributeId = 2
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Push action scheduler - Interval_1 (@2144)
  LogicalName = '0-1:15.0.4.255'
  ClassId = 22
  AttributeExtraInfo = {
    // executed_script
    AttributeId = 2
    AccessRights = [GET,SET]
  }
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Push action scheduler - Interval_2 (@2150)
  LogicalName = '0-2:15.0.4.255'
  ClassId = 22
  AttributeExtraInfo = {
    // executed_script
    AttributeId = 2
    AccessRights = [GET,SET]
  }
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Push action scheduler - Interval_3 (@2156)
  LogicalName = '0-3:15.0.4.255'
  ClassId = 22
  AttributeExtraInfo = {
    // executed_script
    AttributeId = 2
    AccessRights = [GET,SET]
  }
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  // Push action scheduler - Consumer Information
  LogicalName = '0-4:15.0.4.255'
  ClassId = 22

```

```

AttributeExtraInfo = {
  // executed_script
  AttributeId = 2
  AccessRights = [GET,SET]
}
AttributeExtraInfo = {
  // type
  AttributeId = 3
  AccessRights = [GET,SET]
}
}

InstanceExtraInfo = {
  // Auto connect (@2163)
  LogicalName = '0-0:2.1.0.255'
  ClassId = 29
  AttributeExtraInfo = {
    // destination_list
    AttributeId = 6
    AccessRights = [GET,SET]
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:96.13.0.255'
  ClassId = 1
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><OctetString Value="49534B5241454D45434F" /></Data>'
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:20.0.0.255'
  ClassId = 19
  AttributeExtraInfo = {
    AttributeId = 7
    SetData = '\<Data><OctetString Value="3132333435363738" /></Data>'
  }
  AttributeExtraInfo = {
    AttributeId = 8
    SetData = '\<Data><OctetString Value="3132333435363738" /></Data>'
  }
  AttributeExtraInfo = {
    AttributeId = 9
    SetData = '\<Data><OctetString Value="3132333435363738" /></Data>'
  }
}

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

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

```

```

ImageTransfer = {
  ImageIdentifier = '49534B2D494D472D434F4D2D49534B00'
  ImageFileName = '\ISK551E_Application.bin'
  Timeout = 120000
}

PushTimeout = 180000
MinInterWPDUFramesDelay = 200
ProfilePeriodsQty = 6
CaptureDelay = 10000
ClipCallDuration = 20000

AutoConnect = {
  Repetitions = 0
  RepetitionDelay = 0
}

PushSetup = {
  NumberOfRetries = 1
  RepetitionDelay = 30
}

WakeUpDelay = 30000
DisconnectToSendSMSDelay = 10000
DataNotificationToDisconnectDelay = 4000
}

LocalSecurityElements = {
  Public = {
    ContextName = LONG_NAMES
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }
  Management = {
    ContextName = LONG_NAMES_WITH_CIPHERING
    MechanismName = HIGH_LEVEL_SECURITY_GMAC
    Policy = AUTHENTICATION_AND_ENCRYPTION
    Password = '\12345678'
  }
  PreEstablished = {
    Policy = AUTHENTICATION_AND_ENCRYPTION
    ServerMaxReceivePduSize = 1224
    CipheringStyle = GENERAL
  }
}

RemoteSecurityElements = {
  Public = {
    ContextName = LONG_NAMES
    MechanismName = LOWEST_LEVEL_SECURITY
    Policy = NO_SECURITY
  }
  Management = {
    ContextName = LONG_NAMES_WITH_CIPHERING
    MechanismName = HIGH_LEVEL_SECURITY_GMAC
    Policy = AUTHENTICATION_AND_ENCRYPTION
    Password = '\12345678'
  }
  PreEstablished = {
    Policy = AUTHENTICATION_AND_ENCRYPTION
    ServerMaxReceivePduSize = 1224
    CipheringStyle = GENERAL
  }
}

SMSSecurityElements = {
  PreEstablished = {
    Policy = AUTHENTICATION_AND_ENCRYPTION
    ServerMaxReceivePDUSize = 138
    CipheringStyle = GENERAL
  }
}

```

```

}

HDLCPProfile = {
  PhysicalLayer = {
    OpeningMode = MODE_E
    HdlcBaud = 9600
  }
  DataLinkLayer = {
    InactivityTimeout = 30000
    InterFrameTimeout = 100
    ResponseTimeout = 5000
    DISCToNDMTimeout = 5000
    AddressingSchemes = [TWO_BYTES_ADDRESSING]
    ServerLowerMACAddress = 17
  }
}

// Mandatory parameters of the 'Remote' TCP Profile
TCPProfile = {
  ServerTCPPort = 4059
  ResponseTimeout = 120000
  ConnectTimeout = 180000
  DisconnectToConnectDelay = 60000
}

G3PLCProfile = {
  ResponseTimeout = 30000
  ConnectTimeout = 10000
  UDPPort = 61616
  PSK = "AB10341145111BC3C12DE8FF11142204"
}

// 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:       49534B667134753D
Run number:             1760

```