

Final Interoperability Test Report

FIT #: **113**
 Date: 30/11/2023
 Location: DNV, Arnhem, Netherlands
 Page 1 of 30

APPLICANT

Company: Shenzhen Kaifa Technology (Chengdu) Co., Ltd.

Address: No.99, Tianquan Rd., Hi-Tech Development Zone, Chengdu, P.R.C. (PC:611731)

DEVICE		
Device type	MA110M	
<i>Type indication on MID certificate</i>		<i>MID Certificate No.</i>
MA110M		T12100R7
<i>IDIS Specification reference</i>	<i>DNV IDIS Certification run No</i>	<i>Digital signature of the test report.</i>
Package 2 ed. 2.0	2343	COA7FE1A335F22865F55C103E118F342
<i>First certification</i>	<i>IDIS Label</i>	<i>Modular device</i>
<input type="checkbox"/>	0106	<input type="checkbox"/>
<i>General information about the device</i>		

FIRMWARE VERSIONS TESTED				<i>Final Interoperability Test No. 113</i>
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	Verdict
3	000002	010014	096011	Passed

Honeywell

Iskraemeco d.d.

Itron

Landis+Gyr AG

FIRMWARE VERSIONS HISTORY				Final Integration Test	
Firmware No.	Firmware ID1	Firmware ID2	Firmware ID3	No.	Verdict
1	000009	010032		51	Passed
2	000009	015216		86	Passed
3	000002	010014	096011	113	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	3 FW IDs, 2 Signatures
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	Not Tested	
M-Bus Results	Not Tested	
M-Bus Devices IDs	Not Tested	
M-Bus profiles	Not Tested	
M-Bus Load profiles	Not Tested	
M-Bus control logs	Not Tested	
M-Bus Disconnect log	Not Tested	
FIT Push	Passed	Power Off Push N/A
FIT Miscellaneous	Passed	
Optical Port Connectivity	Passed	
Consumer Information Interface	Not Tested	
FIT Conformance Test Report		
<pre> ***** IDIS Conformance test report 30-NOV-2023 09:45:45 iCTT2 Package 2, Edition 2.0, Revision 1 (136) Licensed to: KEMA-IDIS Cert. Tester: Tom Levels ***** ***** * Identification * ***** Manufacturer = { Name = '\Shenzhen Kaifa Technology (Chengdu) Co., Ltd.' ThreeLettersId = '\KFM' } DeviceUnderTest = { Type = '\MA110M' IDISDeviceType = 102 IDISFunctionType = [EXTENSION_D] SerialNr = 99000055 IPVersion = IPV6 DataLinkLayer = G3 ConsumerInformationPush = FALSE EUI64Address = '10E77AFFFE98B51B' } Active firmware identifier (1-0:0.2.0.255) = \000002 Active firmware identifier 1 (1-1:0.2.0.255) = \010014 Active firmware identifier 2 (1-2:0.2.0.255) = \096011 ***** </pre>		

* Summary *

```

PASSED                70
FAILED                0
DISABLED              0
INAPPLICABLE         203
INCONCLUSIVE         0
FATAL                 0
TOTAL                 273
  
```

Test Case 1 : Connect and release, 4 item(s)

```

(1) Connect Public           PASSED
(2) Release Public           PASSED
(3) Connect Management       PASSED
(4) Release Management       PASSED
  
```

Test Case 2 : Read Device IDs, 12 item(s)

Mngmt Get Device ID 1, manufacturing number 0-0:96.1.0.255 (@46)

```

(1) .logical_name           PASSED
    <Data>
      <OctetString Value="0000600100FF" />
    </Data>
(2) .value                  PASSED
    <Data>
      <OctetString Value="\99000055" />
    </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="116D2028774F77AB2C2F39E70BBDEF2D116D2028774F77AB2C2F39E70BBDEF2D116D2028774F77AB2C2F39E70B" />
    </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="\KFM1020199000055" />
    </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="\KFM1020199000055" />
            </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="\000002" />
    </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="4B51B9FA" />
    </Data>

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

```



```

</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>
<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>
<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
<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>
    <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" />

```

PASSED

```

    <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: 24-MAY-2023 09:57:08, latest date: 30-NOV-2023 09:37:02
    Middle date: 24-OCT-2023 10:18:05
(3) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000002B" />
    </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: 18-OCT-2023 23:59:55, latest date: 15-JUN-2024 03:16:16
    Middle date: 24-OCT-2023 10:00:05
(7) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="000000C8" />
    </Data>
(8) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="000000C8" />
    </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: 24-MAY-2023 09:57:08, latest date: 30-NOV-2023 09:03:49
    Middle date: 24-OCT-2023 10:28:03
(11) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="00000022" />
    </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	Earliest date: 24-MAY-2023 09:57:08, latest date: 30-NOV-2023 09:11:42 Middle date: 24-OCT-2023 10:01:13	PASSED
(15) .entries_in_use	<Data> <DoubleLongUnsigned Value="0000000F" /> </Data>	PASSED
(16) .profile_entries	<Data> <DoubleLongUnsigned Value="000000C8" /> </Data>	PASSED
Mngmt Get Power Quality Log 0-0:99.98.4.255 (@1340)		
(17) .logical_name	<Data> <OctetString Value="0000636204FF" /> </Data>	PASSED
(18) .buffer	Earliest date: 24-MAY-2023 09:57:08, latest date: 30-NOV-2023 09:37:00 Middle date: 24-OCT-2023 10:15:36	PASSED
(19) .entries_in_use	<Data> <DoubleLongUnsigned Value="0000000C" /> </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-NOV-2023 00:00:00, latest date: 02-MAY-2024 00:00:00 Middle date: 02-APR-2024 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>	PASSED

```

        </Structure>
    </Array>
    </Data>
(4) .capture_period PASSED
    <Data>
        <DoubleLongUnsigned Value="00000000" />
    </Data>
(5) .sort_method PASSED
    <Data>
        <Enum Value="01" />
    </Data>
(6) .sort_object PASSED
    <Data>
        <Structure Qty="0004" >
            <LongUnsigned Value="0000" />
            <OctetString Value="000000000000" />
            <Integer Value="00" />
            <LongUnsigned Value="0000" />
        </Structure>
    </Data>
(7) .entries_in_use PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000A" />
    </Data>
(8) .profile_entries PASSED
    <Data>
        <DoubleLongUnsigned Value="0000000D" />
    </Data>

```

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

```

Mngmt Get M-Bus master port setup 1 0-0:24.6.0.255 (@1566)
(1) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(2) .comm_speed
INAPPLICABLE
    Object is not required according to OM and/or extensions

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
INAPPLICABLE
    Object is not required according to OM and/or extensions
(6) .mbus_port_reference
INAPPLICABLE
    Object is not required according to OM and/or extensions
(7) .capture_definition
INAPPLICABLE
    Object is not required according to OM and/or extensions
(8) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(9) .primary_address
INAPPLICABLE
    Object is not required according to OM and/or extensions
(10) .identification_number
INAPPLICABLE
    Object is not required according to OM and/or extensions
(11) .manufacturer_id
INAPPLICABLE
    Object is not required according to OM and/or extensions
(12) .version
INAPPLICABLE

```

```

    Object is not required according to OM and/or extensions
(13) .device_type
INAPPLICABLE
    Object is not required according to OM and/or extensions
(14) .access_number
INAPPLICABLE
    Object is not required according to OM and/or extensions
(15) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(16) .alarm
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus client channel 2 0-2:24.1.0.255 (@1596)
(17) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(18) .mbus_port_reference
INAPPLICABLE
    Object is not required according to OM and/or extensions
(19) .capture_definition
INAPPLICABLE
    Object is not required according to OM and/or extensions
(20) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(21) .primary_address
INAPPLICABLE
    Object is not required according to OM and/or extensions
(22) .identification_number
INAPPLICABLE
    Object is not required according to OM and/or extensions
(23) .manufacturer_id
INAPPLICABLE
    Object is not required according to OM and/or extensions
(24) .version
INAPPLICABLE
    Object is not required according to OM and/or extensions
(25) .device_type
INAPPLICABLE
    Object is not required according to OM and/or extensions
(26) .access_number
INAPPLICABLE
    Object is not required according to OM and/or extensions
(27) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(28) .alarm
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus client channel 3 0-3:24.1.0.255 (@1618)
(29) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(30) .mbus_port_reference
INAPPLICABLE
    Object is not required according to OM and/or extensions
(31) .capture_definition
INAPPLICABLE
    Object is not required according to OM and/or extensions
(32) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(33) .primary_address
INAPPLICABLE
    Object is not required according to OM and/or extensions
(34) .identification_number
INAPPLICABLE
    Object is not required according to OM and/or extensions
(35) .manufacturer_id
INAPPLICABLE

```

```

    Object is not required according to OM and/or extensions
(36) .version
INAPPLICABLE
    Object is not required according to OM and/or extensions
(37) .device_type
INAPPLICABLE
    Object is not required according to OM and/or extensions
(38) .access_number
INAPPLICABLE
    Object is not required according to OM and/or extensions
(39) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(40) .alarm
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus client channel 4 0-4:24.1.0.255 (@1640)
(41) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(42) .mbus_port_reference
INAPPLICABLE
    Object is not required according to OM and/or extensions
(43) .capture_definition
INAPPLICABLE
    Object is not required according to OM and/or extensions
(44) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(45) .primary_address
INAPPLICABLE
    Object is not required according to OM and/or extensions
(46) .identification_number
INAPPLICABLE
    Object is not required according to OM and/or extensions
(47) .manufacturer_id
INAPPLICABLE
    Object is not required according to OM and/or extensions
(48) .version
INAPPLICABLE
    Object is not required according to OM and/or extensions
(49) .device_type
INAPPLICABLE
    Object is not required according to OM and/or extensions
(50) .access_number
INAPPLICABLE
    Object is not required according to OM and/or extensions
(51) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(52) .alarm
INAPPLICABLE
    Object is not required according to OM and/or extensions

*****
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
INAPPLICABLE
    Object is not required according to OM and/or extensions
(2) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions
(3) .scaler_unit
INAPPLICABLE
    Object is not required according to OM and/or extensions
(4) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions

```

```

(5) .capture_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Value channel 1, instance 2 0-1:24.2.2.255 (@1670)
(6) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(7) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions
(8) .scaler_unit
INAPPLICABLE
    Object is not required according to OM and/or extensions
(9) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(10) .capture_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Value channel 2, instance 1 0-2:24.2.1.255 (@1694)
(11) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(12) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions
(13) .scaler_unit
INAPPLICABLE
    Object is not required according to OM and/or extensions
(14) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(15) .capture_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Value channel 2, instance 2 0-2:24.2.2.255 (@1702)
(16) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(17) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions
(18) .scaler_unit
INAPPLICABLE
    Object is not required according to OM and/or extensions
(19) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(20) .capture_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Value channel 3, instance 1 0-3:24.2.1.255 (@1726)
(21) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(22) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions
(23) .scaler_unit
INAPPLICABLE
    Object is not required according to OM and/or extensions
(24) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(25) .capture_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Value channel 3, instance 2 0-3:24.2.2.255 (@1734)

```



```

(26) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(27) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions
(28) .scaler_unit
INAPPLICABLE
    Object is not required according to OM and/or extensions
(29) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(30) .capture_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Value channel 4, instance 1 0-4:24.2.1.255 (@1758)
(31) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(32) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions
(33) .scaler_unit
INAPPLICABLE
    Object is not required according to OM and/or extensions
(34) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(35) .capture_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Value channel 4, instance 2 0-4:24.2.2.255 (@1766)
(36) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(37) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions
(38) .scaler_unit
INAPPLICABLE
    Object is not required according to OM and/or extensions
(39) .status
INAPPLICABLE
    Object is not required according to OM and/or extensions
(40) .capture_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

*****
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
INAPPLICABLE
    Object is not required according to OM and/or extensions
(2) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Device ID 1 channel 2 0-2:96.1.0.255 (@1794)
(3) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(4) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Device ID 1 channel 3 0-3:96.1.0.255 (@1798)
(5) .logical_name
INAPPLICABLE

```

```

    Object is not required according to OM and/or extensions
(6) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Device ID 1 channel 4 0-4:96.1.0.255 (@1802)
(7) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(8) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Device ID 2 channel 1 0-1:96.1.1.255 (@1806)
(9) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(10) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Device ID 2 channel 2 0-2:96.1.1.255 (@1810)
(11) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(12) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Device ID 2 channel 3 0-3:96.1.1.255 (@1814)
(13) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(14) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Device ID 2 channel 4 0-4:96.1.1.255 (@1818)
(15) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(16) .value
INAPPLICABLE
    Object is not required according to OM and/or extensions

*****
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
INAPPLICABLE
    Object is not required according to OM and/or extensions
(2) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(3) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions
(4) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(5) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(6) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions
(7) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(8) .profile_entries
INAPPLICABLE

```

```

    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Load profile for channel 2 0-2:24.3.0.255 (@1849)
(9) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(10) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(11) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions
(12) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(13) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(14) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions
(15) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(16) .profile_entries
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Load profile for channel 3 0-3:24.3.0.255 (@1860)
(17) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(18) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(19) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions
(20) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(21) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(22) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions
(23) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(24) .profile_entries
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Load profile for channel 4 0-4:24.3.0.255 (@1871)
(25) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(26) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(27) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions
(28) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(29) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(30) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions

```

```

(31) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(32) .profile_entries
INAPPLICABLE
    Object is not required according to OM and/or extensions

*****
Test Case 16 : Ext. M - M-Bus Control Logs, 40 item(s)
*****

Mngmt Get M-Bus Master Control log object 1 0-1:24.5.0.255 (@1941)
(1) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(2) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(3) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions
(4) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(5) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(6) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions
(7) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(8) .profile_entries
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Control log object 2 0-2:24.5.0.255 (@1952)
(9) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(10) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(11) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions
(12) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(13) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(14) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions
(15) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(16) .profile_entries
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Control log object 3 0-3:24.5.0.255 (@1963)
(17) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(18) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(19) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions

```

```

(20) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(21) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(22) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions
(23) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(24) .profile_entries
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Control log object 4 0-4:24.5.0.255 (@1974)
(25) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(26) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(27) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions
(28) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(29) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(30) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions
(31) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(32) .profile_entries
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Event Log 0-0:99.98.3.255 (@1989)
(33) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(34) .buffer
INAPPLICABLE
    Object is not required according to OM and/or extensions
(35) .capture_objects
INAPPLICABLE
    Object is not required according to OM and/or extensions
(36) .capture_period
INAPPLICABLE
    Object is not required according to OM and/or extensions
(37) .sort_method
INAPPLICABLE
    Object is not required according to OM and/or extensions
(38) .sort_object
INAPPLICABLE
    Object is not required according to OM and/or extensions
(39) .entries_in_use
INAPPLICABLE
    Object is not required according to OM and/or extensions
(40) .profile_entries
INAPPLICABLE
    Object is not required according to OM and/or extensions

```

```

*****
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
INAPPLICABLE
    Object is not required according to OM and/or extensions
(2) .output_state
INAPPLICABLE
    Object is not required according to OM and/or extensions
(3) .control_state
INAPPLICABLE
    Object is not required according to OM and/or extensions
(4) .control_mode
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Disconnect control object 2 0-2:24.4.0.255 (@1890)
(5) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(6) .output_state
INAPPLICABLE
    Object is not required according to OM and/or extensions
(7) .control_state
INAPPLICABLE
    Object is not required according to OM and/or extensions
(8) .control_mode
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Disconnect control object 3 0-3:24.4.0.255 (@1898)
(9) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(10) .output_state
INAPPLICABLE
    Object is not required according to OM and/or extensions
(11) .control_state
INAPPLICABLE
    Object is not required according to OM and/or extensions
(12) .control_mode
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Master Disconnect control object 4 0-4:24.4.0.255 (@1906)
(13) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(14) .output_state
INAPPLICABLE
    Object is not required according to OM and/or extensions
(15) .control_state
INAPPLICABLE
    Object is not required according to OM and/or extensions
(16) .control_mode
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Disconnect control scheduler 0-1:15.0.1.255 (@1914)
(17) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions
(18) .executed_script
INAPPLICABLE
    Object is not required according to OM and/or extensions
(19) .type
INAPPLICABLE
    Object is not required according to OM and/or extensions
(20) .execution_time
INAPPLICABLE
    Object is not required according to OM and/or extensions

Mngmt Get M-Bus Disconnect script table 0-1:10.0.106.255 (@1920)
(21) .logical_name
INAPPLICABLE
    Object is not required according to OM and/or extensions

```

```

(22) .scripts
INAPPLICABLE
    Object is not required according to OM and/or extensions

*****
Test Case 18 : FIT Push, 3 item(s)
*****
    (1) Push on installation                                     PASSED
    (2) Push on alarm                                         PASSED
    (3) Push on power down
INAPPLICABLE
    Push setup on power down not available

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

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

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

Manufacturer =
{
    Name = '\Shenzhen Kaifa Technology (Chengdu) Co., Ltd.'
    ThreeLettersId = '\KFM'
}

DeviceUnderTest =
{
    Type = '\MA110M'
    IDISDeviceType = 102
    IDISFunctionType = [Extension_D]
    SerialNr = 99000055
    IPVersion = IPv6
    DataLinkLayer = G3
    ConsumerInformationPush = FALSE
    EUI64Address = "10E77AFFFE98B51B"
}

TestOptions =
{
    PushDestination = '\[fe80:0:0:0:781d:ff:fe00:0]:61616'
}

// Mandatory 'ObjectModel' structure
// *****
// It defines the current values of the optional elements of the object model.
// These are the optional objects, the optional access rights of attributes and/or
// methods. Also, default values for writing attributes can also be defined here.

ObjectModel =
{
    // Optional objects implemented
    OptionalObjects = '\
        + '1-0:0.9.1.255|1,' // Local Time (@86)
        + '1-0:0.9.2.255|1,' // Local Date (@90)
        + '1-1:0.2.0.255|1,' // Active firmware identifier 1 (@420)
        + '1-1:0.2.8.255|1,' // Active firmware signature 1 (@424)
        + '1-2:0.2.0.255|1,' // Active firmware identifier 2 (@428)
        + '1-2:0.2.8.255|1,' // Active firmware signature 2 (@432)
        + '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)
+ '1-0:1.5.0.255|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)
+ '1-0:14.7.0.255|3,' // Instantaneous net frequency; any phase (@1450)
+ '1-0:9.7.0.255|3,' // Instantaneous apparent import power (+VA) (@1486)
+ '1-0:10.7.0.255|3,' // Instantaneous apparent export power (-VA) (@1492)
+ '1-0:13.7.0.255|3,' // Instantaneous Power factor (+A/+VA) (@1537)
+ '0-0:20.0.0.255|19' // IEC local port setup - IEC Optical port (@2001)

```

```

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

```

```

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

```

```

InstanceExtraInfo = {
  // End of billing period 1 scheduler (@152)
  LogicalName = '0-0:15.0.0.255'
  ClassId = 22
  AttributeExtraInfo = {
    // type
    AttributeId = 3
    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 (@388)
    LogicalName = '0-0:44.0.0.255'
    ClassId = 18
    AttributeExtraInfo = {
        // image_block_size
        AttributeId = 2
        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 = {
    // Auto connect (@2163)
    LogicalName = '0-0:2.1.0.255'
    ClassId = 29
    AttributeExtraInfo = {
        // destination_list
        AttributeId = 6
        AccessRights = [GET,SET]
    }
}

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 = {
    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 = '0-0:97.98.2.255'
  ClassId = 1
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><DoubleLongUnsigned Value="00000000" /></Data>'
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:97.98.20.255'
  ClassId = 1
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><DoubleLongUnsigned Value="00000000" /></Data>'
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:97.98.21.255'
  ClassId = 1
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><DoubleLongUnsigned Value="00000000" /></Data>'
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:97.97.0.255'
  ClassId = 1
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><DoubleLongUnsigned Value="00000000" /></Data>'
  }
}

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

InstanceExtraInfo = {
  // G3-PLC MAC Setup (@2217)
  LogicalName = '0-0:29.1.0.255'
  ClassId = 91
  AttributeExtraInfo = {
    // mac_key_table
    AttributeId = 5
    SetData = '\<Data>'
+   <Array Qty="01" >'
+   <Structure Qty="02" >'
+     <Unsigned Value="00" />'
+     <OctetString Value="000102030405060708090A0B0C0D0E0F" />'
+   </Structure>'
+ </Array>'
+ </Data>'
  }
}

InstanceExtraInfo = {
  LogicalName = '0-0:1.0.0.255'
  ClassId = 8
  AttributeExtraInfo = {
    AttributeId = 2
    SetData = '\<Data><OctetString Value="07E70B1EFF10000FF8000FF" /></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="001E" />'
+       <OctetString Value="FFFF0101FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="001D" />'
+       <OctetString Value="FFFF0102FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="001C" />'
+       <OctetString Value="FFFF0103FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="001B" />'
+       <OctetString Value="FFFF0104FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="001A" />'
+       <OctetString Value="FFFF0105FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="0019" />'
+       <OctetString Value="FFFF0106FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="0018" />'
+       <OctetString Value="FFFF0107FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="0017" />'
+       <OctetString Value="FFFF0108FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="0016" />'
+       <OctetString Value="FFFF0109FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="0015" />'
+       <OctetString Value="FFFF010AFF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="0014" />'
+       <OctetString Value="FFFF0201FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="0013" />'
+       <OctetString Value="FFFF0202FF" />'
+       <Unsigned Value="02" />'
+     </Structure>'
+     <Structure Qty="03" >'
+       <LongUnsigned Value="0012" />'
+       <OctetString Value="FFFF0203FF" />'

```

```

+'          <Unsigned Value="02" />'
+'        </Structure>'
+'      <Structure Qty="03" >'
+'        <LongUnsigned Value="0011" />'
+'        <OctetString Value="FFFF0204FF" />'
+'        <Unsigned Value="02" />'
+'      </Structure>'
+'    <Structure Qty="03" >'
+'      <LongUnsigned Value="0010" />'
+'      <OctetString Value="FFFF0205FF" />'
+'      <Unsigned Value="02" />'
+'    </Structure>'
+'  <Structure Qty="03" >'
+'    <LongUnsigned Value="000F" />'
+'    <OctetString Value="FFFF0206FF" />'
+'    <Unsigned Value="02" />'
+'  </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="000E" />'
+'   <OctetString Value="FFFF0207FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="000D" />'
+'   <OctetString Value="FFFF0208FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="000C" />'
+'   <OctetString Value="FFFF0209FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="000B" />'
+'   <OctetString Value="FFFF020AFF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="000A" />'
+'   <OctetString Value="FFFF0301FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0009" />'
+'   <OctetString Value="FFFF0302FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0008" />'
+'   <OctetString Value="FFFF0303FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0007" />'
+'   <OctetString Value="FFFF0304FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0006" />'
+'   <OctetString Value="FFFF0305FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0005" />'
+'   <OctetString Value="FFFF0306FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'
+'   <LongUnsigned Value="0004" />'
+'   <OctetString Value="FFFF0307FF" />'
+'   <Unsigned Value="02" />'
+' </Structure>'
+' <Structure Qty="03" >'

```



```

Management = {
    ContextName = LONG_NAMES_WITH_CIPHERING
    MechanismName = HIGH_LEVEL_SECURITY_GMAC
    Policy = AUTHENTICATION_AND_ENCRYPTION
    Password = '\12345678'
}
PreEstablished = {
    Policy = AUTHENTICATION_AND_ENCRYPTION
    ServerMaxReceivePduSize = 1224
    CipherringStyle = GENERAL
}
}

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

HDLCPprofile = {

    PhysicalLayer = {
        OpeningMode = DIRECT_HDLC
        HdlcBaud = 9600
    }
    DataLinkLayer = {
        InactivityTimeout          = 120000
        InterFrameTimeout          = 100
        ResponseTimeout            = 5000
        DISCToNDMTimeout          = 120000
        AddressingSchemes          = [TWO_BYTES_ADDRESSING]
        ServerLowerMACAddress     = 0x11
    }

    UIFrameDelay = 2000
    UIFrameLength = 126
}

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

// Mandatory parameters of the 'Remote' G3-PLC profile
G3PLCProfile = {
    FrequencyBand = CENELEC_A
    ResponseTimeout = 60000
    UDPPort = 61616
    ConnectTimeout = 10000
    PSK = "00112233445566778899AABBCCDDEEFF"
}

// END CTI_Template

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

TestMode:                G3-PLC
Test Plan Signature:     BFC18D5882976F2087BC007B67CDC246
Object Model:            IDIS-S02-002 - object model Pack2 Ed2.0 - V2.29 (20200831)-FIT MBUS
Tests G350 (CorrectedAndValve status).xlsx
DUT system title:       4B464D6615E69EF7
Run number:              2343

```