

ETSI plugtest-4

NETCONF XLM Examples

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	<i>Issued by</i> R.SERVADIO	<i>Approved by</i> -	<i>Date</i> 24/01/2023	<i>Page</i> 1 of 34
<i>Property of Siae Microelettronica. All rights reserved.</i>	 siae microelettronica	<i>Document Number</i> ETSI-PT-4-NTCF-XML		<i>Rev.</i> 01	

INDEX

1. DOCUMENT INFORMATION	3
1.1 Scope	3
1. CUSTOMER BRIDGE	4
1.1 VLAN Inventory	4
1.2 VLAN Creation and filtering database entry addition (for C-VLAN tagged packets)	6
1.3 VLAN Creation and filtering database entry addition (for untagged packets)	7
1.4 PVID configuration.....	8
1.5 VLAN Deletion	9
2. PROVIDER BRIDGE.....	10
2.1 VLAN Inventory	10
2.2 VLAN Creation and filtering database entry addition (for SVLAN tagged packets)	13
2.3 VLAN Deletion	14
3. PROVIDER EDGE BRIDGE	15
3.1 VLAN Inventory	15
3.2 CVLAN / SVLAN mapping	18
3.3 VLAN Creation and filtering database entry addition (for C-VLAN tagged packets)	19
3.4 VLAN Creation and filtering database entry addition (for untagged packets)	21
3.5 PVID configuration.....	23
3.6 Add CVLAN registration to SVLAN (CVLAN-ID=101, SVLAN-ID=201)	24
3.7 Delete CVLAN registration to SVLAN (CVLAN-ID=101)	25
3.8 VLAN Delete	26
4. NETWORK DISCOVERY	27
4.1 Hardware and Software inventory (INV_HW_01 + INV_FW_01)	27
4.2 Microwave Carrier inventory (INV_CARRIER_01)	29
4.3 Ethernet Carrier inventory (INV_PORT_01).....	32
4.4 LLDP information (INV_NET_01).....	34

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	<i>Issued by</i> R.SERVADIO	<i>Approved by</i> -	<i>Date</i> 24/01/2023	<i>Page</i> 2 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	<i>Document Number</i> ETSI-PT-4-NTCF-XML		<i>Rev.</i> 01	

1. DOCUMENT INFORMATION

1.1 Scope

This document includes the Netconf Request XML examples for ETSI plugtest-4 with reference to:

- VLAN Management in the the following scenarios:
 - Customer Bridge
 - Provider Bridge
 - Provider Edge Bridge
- Network Discovery
 - Hardware inventory
 - Software inventory
 - Microwave carrier inventory
 - Ethernet carrier inventory
 - LLDP information

The XML examples have been captured as copy past from MG-soft netconf browser.

Some of them have been edited manually because the functionality was not already implemented on the mediator/device.

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 3 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

1. CUSTOMER BRIDGE

The examples above are referred to the following scenario:

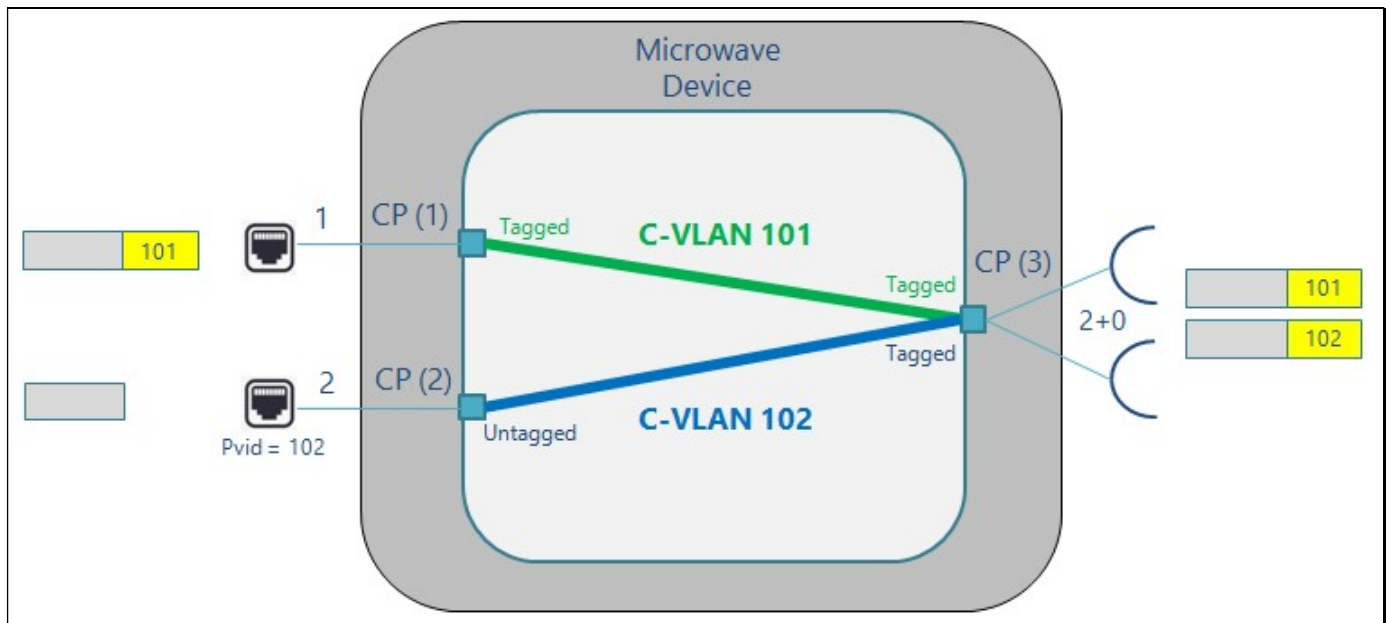


Figure 1

1.1 VLAN Inventory

REQUEST:

```
<get>
<filter type="subtree">
  <dot1q:bridges xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge"/>
</filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <bridges xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
    <bridge>
      <name>Bridge-1</name>
      <address>00-B0-AC-0D-13-4A</address>
      <bridge-type xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">dot1q:customer-vlan-bridge</bridge-type>
      <component>
        <name>Component-1</name>
        <id>1</id>
        <type xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">dot1q:c-vlan-component</type>
        <bridge-port>eth1</bridge-port>
        <bridge-port>eth2</bridge-port>
        <bridge-port>eth3</bridge-port>
        <filtering-database>
          <vlan-registration-entry>
            <database-id>1</database-id>
            <vids>101</vids>
            <entry-type>static</entry-type>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 4 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

```

<port-map>
  <port-ref>1</port-ref>
  <static-vlan-registration-entries>
    <vlan-transmitted>tagged</vlan-transmitted>
    <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
  </static-vlan-registration-entries>
</port-map>
<port-map>
  <port-ref>3</port-ref>
  <static-vlan-registration-entries>
    <vlan-transmitted>tagged</vlan-transmitted>
    <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
  </static-vlan-registration-entries>
</port-map>
</vlan-registration-entry>
<vlan-registration-entry>
  <database-id>1</database-id>
  <vids>102</vids>
  <entry-type>static</entry-type>
  <port-map>
    <port-ref>2</port-ref>
    <static-vlan-registration-entries>
      <vlan-transmitted>untagged</vlan-transmitted>
      <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
    </static-vlan-registration-entries>
  </port-map>
  <port-map>
    <port-ref>3</port-ref>
    <static-vlan-registration-entries>
      <vlan-transmitted>tagged</vlan-transmitted>
      <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
    </static-vlan-registration-entries>
  </port-map>
</vlan-registration-entry>
</filtering-database>
<bridge-vlan>
  <vlan>
    <vid>101</vid>
    <name>VLAN-101</name>
    <egress-ports>eth1</egress-ports>
    <egress-ports>eth3</egress-ports>
  </vlan>
  <vlan>
    <vid>102</vid>
    <name>VLAN-102</name>
    <egress-ports>eth2</egress-ports>
    <egress-ports>eth3</egress-ports>
  </vlan>
</bridge-vlan>
</component>
</bridge>
</bridges>
</data>

```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	<i>Issued by</i> R.SERVADIO	<i>Approved by</i> -	<i>Date</i> 24/01/2023	<i>Page</i> 5 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		<i>Document Number</i> ETSI-PT-4-NTCF-XML		<i>Rev.</i> 01

1.2 VLAN Creation and filtering database entry addition (for C-VLAN tagged packets)

This section provides an XML example of VLAN creation and filtering database entry addition for the management of CVLAN tagged packets (see Figure-1 VLAN-ID=101)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <dot1q:bridges xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
        <dot1q:bridge>
          <dot1q:name>Bridge-1</dot1q:name>
          <dot1q:component>
            <dot1q:name>Component-1</dot1q:name>
            <dot1q:bridge-vlan>
              <dot1q:vlan>
                <dot1q:vid>101</dot1q:vid>
                <dot1q:name>Vlan-101</dot1q:name>
              </dot1q:vlan>
            </dot1q:bridge-vlan>
            <dot1q:filtering-database>
              <dot1q:vlan-registration-entry>
                <dot1q:database-id>1</dot1q:database-id>
                <dot1q:vids>101</dot1q:vids>
                <dot1q:entry-type>static</dot1q:entry-type>
                <dot1q:port-map>
                  <dot1q:port-ref>1</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>tagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
                <dot1q:port-map>
                  <dot1q:port-ref>3</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>tagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
              </dot1q:vlan-registration-entry>
            </dot1q:filtering-database>
          </dot1q:component>
        </dot1q:bridge>
      </dot1q:bridges>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 6 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML			Rev. 01

1.3 VLAN Creation and filtering database entry addition (for untagged packets)

This section provides an XML example of VLAN creation and filtering database entry addition for the management of untagged packets (see Figure-1 VLAN-ID=102)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <dot1q:bridges xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
        <dot1q:bridge>
          <dot1q:name>Bridge-1</dot1q:name>
          <dot1q:component>
            <dot1q:name>Component-1</dot1q:name>
            <dot1q:bridge-vlan>
              <dot1q:vlan>
                <dot1q:vid>102</dot1q:vid>
                <dot1q:name>Vlan-102</dot1q:name>
              </dot1q:vlan>
            </dot1q:bridge-vlan>
            <dot1q:filtering-database>
              <dot1q:vlan-registration-entry>
                <dot1q:database-id>1</dot1q:database-id>
                <dot1q:vids>102</dot1q:vids>
                <dot1q:entry-type>static</dot1q:entry-type>
                <dot1q:port-map>
                  <dot1q:port-ref>2</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>untagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
                <dot1q:port-map>
                  <dot1q:port-ref>3</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>tagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
              </dot1q:vlan-registration-entry>
            </dot1q:filtering-database>
          </dot1q:component>
        </dot1q:bridge>
      </dot1q:bridges>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 7 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML			Rev. 01

1.4 PVID configuration

This section provides an XML example of PVID configuration for the management of untagged packets (see Figure-1 port 2)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces"
        xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
        <interface>
          <name>2</name>
          <bridge-port xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
            <pvid>102</pvid>
          </bridge-port>
        </interface>
      </interfaces>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 8 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML			Rev. 01

1.5 VLAN Deletion

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
  </edit-config>
  <config>
    <bridges xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge"
      xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <bridge>
        <name>Bridge-1</name>
        <component>
          <name>Component-1</name>
          <filtering-database>
            <vlan-registration-entry nc:operation="delete">
              <database-id>1</database-id>
              <vids>101</vids>
              <entry-type>static</entry-type>
            </vlan-registration-entry>
          </filtering-database>
          <bridge-vlan>
            <vlan nc:operation="delete">
              <vid>101</vid>
            </vlan>
          </bridge-vlan>
        </component>
      </bridge>
    </bridges>
  </config>
</edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 9 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML			Rev. 01

2. PROVIDER BRIDGE

The examples above are referred to the following scenario:

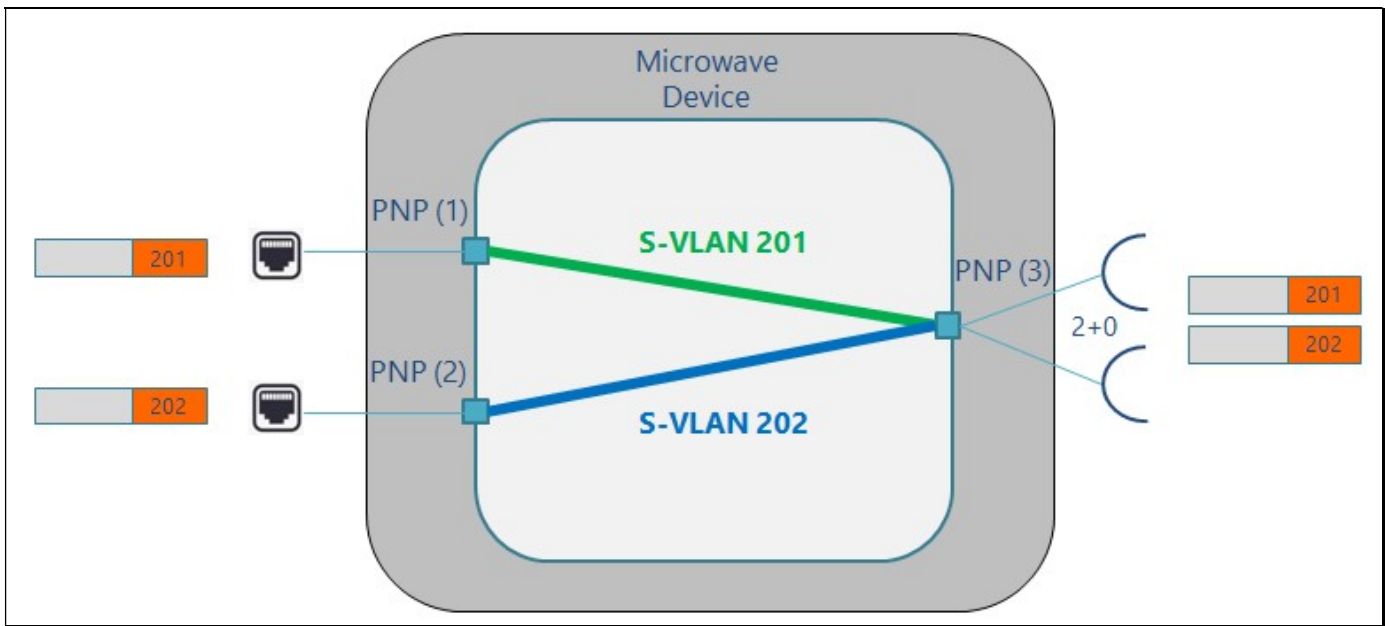


Figure 2

2.1 VLAN Inventory

REQUEST:

```
<get>
  <filter type="subtree">
    <dot1q:bridges xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge"/>
  </filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <bridges xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
    <bridge>
      <name>Bridge-1</name>
      <address>00-B0-AC-0D-13-4A</address>
      <bridge-type xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">dot1q:provider-bridge</bridge-type>
      <component>
        <name>Component-1</name>
        <id>1</id>
        <type xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">dot1q:s-vlan-component</type>
        <bridge-port>eth1</bridge-port>
        <bridge-port>eth2</bridge-port>
        <bridge-port>eth3</bridge-port>
        <filtering-database>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 10 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

```

<vlan-registration-entry>
  <database-id>1</database-id>
  <vids>201</vids>
  <entry-type>static</entry-type>
  <port-map>
    <port-ref>1</port-ref>
    <static-vlan-registration-entries>
      <vlan-transmitted>tagged</vlan-transmitted>
      <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
    </static-vlan-registration-entries>
  </port-map>
</port-map>
  <port-ref>3</port-ref>
  <static-vlan-registration-entries>
    <vlan-transmitted>tagged</vlan-transmitted>
    <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
  </static-vlan-registration-entries>
</port-map>
</vlan-registration-entry>
<vlan-registration-entry>
  <database-id>1</database-id>
  <vids>202</vids>
  <entry-type>static</entry-type>
  <port-map>
    <port-ref>2</port-ref>
    <static-vlan-registration-entries>
      <vlan-transmitted>tagged</vlan-transmitted>
      <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
    </static-vlan-registration-entries>
  </port-map>
  <port-ref>3</port-ref>
  <static-vlan-registration-entries>
    <vlan-transmitted>tagged</vlan-transmitted>
    <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
  </static-vlan-registration-entries>
</port-map>
</vlan-registration-entry>
</filtering-database>
<bridge-vlan>
  <vlan>
    <vid>201</vid>
    <name>VLAN-201</name>
    <egress-ports>eth1</egress-ports>
    <egress-ports>eth3</egress-ports>
  </vlan>
  <vlan>
    <vid>202</vid>
    <name>VLAN-202</name>

```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 11 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

```

    <egress-ports>eth2</egress-ports>
    <egress-ports>eth3</egress-ports>
  </vlan>
</bridge-vlan>
</component>
</bridge>
</bridges>
</data>

```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 12 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

2.2 VLAN Creation and filtering database entry addition (for SVLAN tagged packets)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <dot1q:bridges xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
        <dot1q:bridge>
          <dot1q:name>Bridge-1</dot1q:name>
          <dot1q:component>
            <dot1q:name>Component-1</dot1q:name>
            <dot1q:bridge-vlan>
              <dot1q:vlan>
                <dot1q:vid>201</dot1q:vid>
                <dot1q:name>Vlan-201</dot1q:name>
              </dot1q:vlan>
            </dot1q:bridge-vlan>
            <dot1q:filtering-database>
              <dot1q:vlan-registration-entry>
                <dot1q:database-id>1</dot1q:database-id>
                <dot1q:vids>201</dot1q:vids>
                <dot1q:entry-type>static</dot1q:entry-type>
                <dot1q:port-map>
                  <dot1q:port-ref>1</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>tagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
              </dot1q:port-map>
              <dot1q:static-vlan-registration-entries>
                <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                <dot1q:vlan-transmitted>tagged</dot1q:vlan-transmitted>
              </dot1q:static-vlan-registration-entries>
            </dot1q:port-map>
          </dot1q:vlan-registration-entry>
        </dot1q:filtering-database>
      </dot1q:component>
    </dot1q:bridge>
  </dot1q:bridges>
</config>
</edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 13 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

2.3 VLAN Deletion

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <bridges xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge"
        xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
        <bridge>
          <name>Bridge-1</name>
          <component>
            <name>Component-1</name>
            <filtering-database>
              <vlan-registration-entry nc:operation="delete">
                <database-id>1</database-id>
                <vids>201</vids>
                <entry-type>static</entry-type>
              </vlan-registration-entry>
            </filtering-database>
            <bridge-vlan>
              <vlan nc:operation="delete">
                <vid>201</vid>
              </vlan>
            </bridge-vlan>
          </component>
        </bridge>
      </bridges>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 14 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

3. PROVIDER EDGE BRIDGE

The examples above are referred to the following scenario:

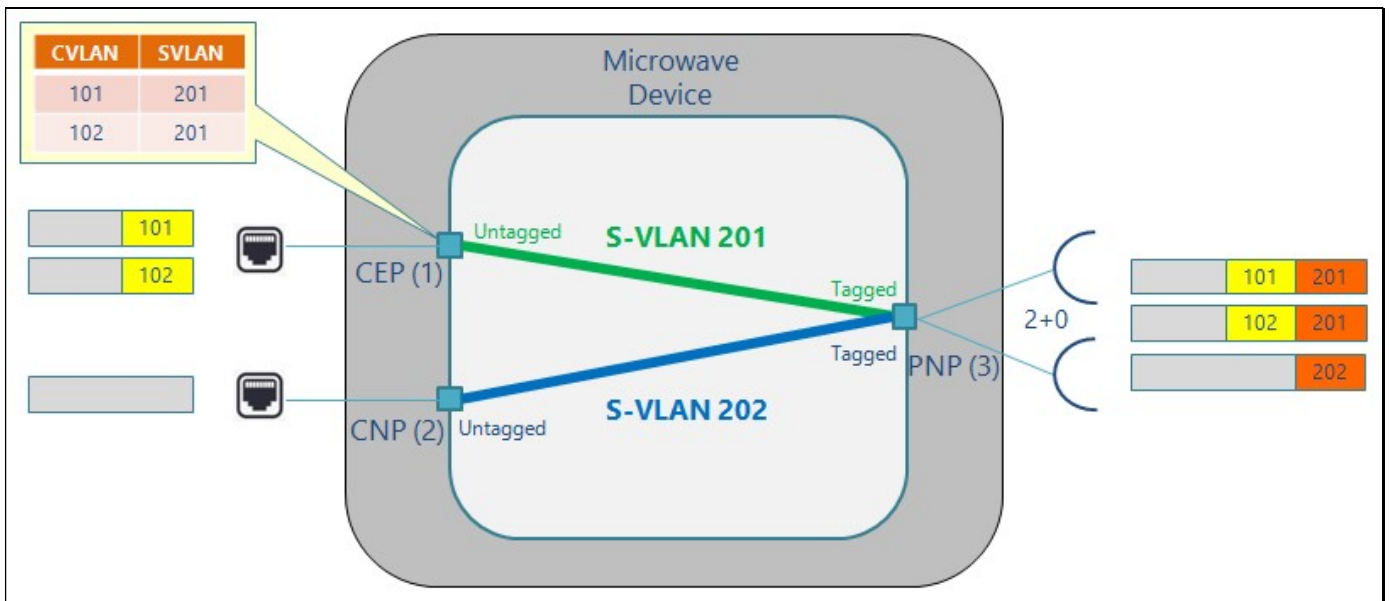


Figure 3

3.1 VLAN Inventory

REQUEST:

```
<get>
<filter type="subtree">
  <dot1q:bridges xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge"/>
</filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <bridges xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
    <bridge>
      <name>Bridge-1</name>
      <address>00-B0-AC-0D-13-4A</address>
      <bridge-type xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">dot1q:provider-edge-bridge</bridge-type>
      <component>
        <name>Component-1</name>
        <id>1</id>
        <type xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">dot1q:s-vlan-component</type>
        <ports>2</ports>
        <bridge-port>eth2</bridge-port>
        <bridge-port>eth3</bridge-port>
        <filtering-database>
          <aging-time>300</aging-time>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 15 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

```

<vlan-registration-entry>
  <database-id>1</database-id>
  <vids>201</vids>
  <entry-type>static</entry-type>
  <port-map>
    <port-ref>1</port-ref>
    <static-vlan-registration-entries>
      <vlan-transmitted>untagged</vlan-transmitted>
      <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
    </static-vlan-registration-entries>
  </port-map>
</port-map>
  <port-ref>3</port-ref>
  <static-vlan-registration-entries>
    <vlan-transmitted>tagged</vlan-transmitted>
    <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
  </static-vlan-registration-entries>
</port-map>
</vlan-registration-entry>
<vlan-registration-entry>
  <database-id>1</database-id>
  <vids>202</vids>
  <entry-type>static</entry-type>
  <port-map>
    <port-ref>2</port-ref>
    <static-vlan-registration-entries>
      <vlan-transmitted>untagged</vlan-transmitted>
      <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
    </static-vlan-registration-entries>
  </port-map>
  <port-ref>3</port-ref>
  <static-vlan-registration-entries>
    <vlan-transmitted>tagged</vlan-transmitted>
    <registrar-admin-control>fixed-new-ignored</ registrar-admin-control>
  </static-vlan-registration-entries>
</port-map>
</vlan-registration-entry>
</filtering-database>
<bridge-vlan>
  <vlan>
    <vid>201</vid>
    <name>VLAN-201</name>
    <egress-ports>eth1</egress-ports>
    <egress-ports>eth3</egress-ports>
  </vlan>
  <vlan>
    <vid>202</vid>
    <name>VLAN-202</name>

```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 16 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01


```

    <egress-ports>eth2</egress-ports>
    <egress-ports>eth3</egress-ports>
  </vlan>
</bridge-vlan>
</component>
<component>
  <name>Component-eth1</name>
  <id>2</id>
  <type xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">dot1q:c-vlan-component</type>
  <ports>1</ports>
  <bridge-port>eth1</bridge-port>
</component>
</bridge>
</bridges>
</data>

```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 17 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

3.2 CVLAN / SVLAN mapping

REQUEST:

```
<get>
<filter type="subtree">
  <if:interfaces xmlns:dot1q-pb="urn:ieee:std:802.1Q:yang:ieee802-dot1q-pb"
    xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge"
    xmlns:if="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <if:interface>
      <dot1q:bridge-port>
        <dot1q-pb:cvid-registration/>
      </dot1q:bridge-port>
    </if:interface>
  </if:interfaces>
</filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <bridge-port xmlns="urn:ieee:std:802.3:yang:dot1q">
        <cvid-registration xmlns="urn:ieee:std:802.3:yang:dot1q-pb">
          <cvid>101</cvid>
          <svid>201</svid>
          <untagged-pep>false</untagged-pep>
          <untagged-cep>false</untagged-cep>
        </cvid-registration>
        <cvid-registration xmlns="urn:ieee:std:802.3:yang:dot1q-pb">
          <cvid>102</cvid>
          <svid>201</svid>
          <untagged-pep>false</untagged-pep>
          <untagged-cep>false</untagged-cep>
        </cvid-registration>
      </bridge-port>
      <name>eth1</name>
    </interface>
  </interfaces>
</data>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 18 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

3.3 VLAN Creation and filtering database entry addition (for C-VLAN tagged packets)

This section provides an XML example of VLAN creation and filtering database entry addition for the management of CVLAN tagged packets (see Figure-3 SVLAN-ID=201)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <dot1q:bridges xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
        <dot1q:bridge>
          <dot1q:name>Bridge-1</dot1q:name>
          <dot1q:component>
            <dot1q:name>Component-1</dot1q:name>
            <dot1q:bridge-vlan>
              <dot1q:vlan>
                <dot1q:vid>201</dot1q:vid>
                <dot1q:name>Vlan-201</dot1q:name>
              </dot1q:vlan>
            </dot1q:bridge-vlan>
            <dot1q:filtering-database>
              <dot1q:vlan-registration-entry>
                <dot1q:database-id>1</dot1q:database-id>
                <dot1q:vids>201</dot1q:vids>
                <dot1q:entry-type>static</dot1q:entry-type>
                <dot1q:port-map>
                  <dot1q:port-ref>1</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>untagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
                <dot1q:port-map>
                  <dot1q:port-ref>3</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>tagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
              </dot1q:vlan-registration-entry>
            </dot1q:filtering-database>
          </dot1q:component>
        </dot1q:bridge>
      </dot1q:bridges>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 19 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML			Rev. 01

```
</dot1q:bridges>  
</config>  
</edit-config>  
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 20 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

3.4 VLAN Creation and filtering database entry addition (for untagged packets)

This section provides an XML example of VLAN creation and filtering database entry addition for the management of untagged packets (see Figure-3 SVLAN-ID=203)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <dot1q:bridges xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
        <dot1q:bridge>
          <dot1q:name>Bridge-1</dot1q:name>
          <dot1q:component>
            <dot1q:name>Component-1</dot1q:name>
            <dot1q:bridge-vlan>
              <dot1q:vlan>
                <dot1q:vid>203</dot1q:vid>
                <dot1q:name>Vlan-203</dot1q:name>
              </dot1q:vlan>
            </dot1q:bridge-vlan>
            <dot1q:filtering-database>
              <dot1q:vlan-registration-entry>
                <dot1q:database-id>1</dot1q:database-id>
                <dot1q:vids>203</dot1q:vids>
                <dot1q:entry-type>static</dot1q:entry-type>
                <dot1q:port-map>
                  <dot1q:port-ref>1</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>untagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
                <dot1q:port-map>
                  <dot1q:port-ref>3</dot1q:port-ref>
                  <dot1q:static-vlan-registration-entries>
                    <dot1q:registrar-admin-control>fixed-new-ignored</dot1q:registrar-admin-control>
                    <dot1q:vlan-transmitted>tagged</dot1q:vlan-transmitted>
                  </dot1q:static-vlan-registration-entries>
                </dot1q:port-map>
              </dot1q:vlan-registration-entry>
            </dot1q:filtering-database>
          </dot1q:component>
        </dot1q:bridge>
      </dot1q:bridges>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 21 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

</config>
</edit-config>
</rpc>

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 22 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

3.5 PVID configuration

This section provides an XML example of PVID configuration for the management of untagged packets (see Figure-3 port 2)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces"
        xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
        <interface>
          <name>2</name>
          <bridge-port xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
            <pvid>202</pvid>
          </bridge-port>
        </interface>
      </interfaces>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 23 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML			Rev. 01

3.6 Add CVLAN registration to SVLAN (CVLAN-ID=101, SVLAN-ID=201)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <if:interfaces xmlns:if="urn:ietf:params:xml:ns:yang:ietf-interfaces">
        <if:interface>
          <dot1q:bridge-port xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
            <dot1q-pb:cvid-registration xmlns:dot1q-pb="urn:ieee:std:802.1Q:yang:ieee802-dot1q-pb">
              <dot1q-pb:cvid>101</dot1q-pb:cvid>
              <dot1q-pb:svid>201</dot1q-pb:svid>
              <dot1q-pb:untagged-pep>false</dot1q-pb:untagged-pep>
              <dot1q-pb:untagged-cep>false</dot1q-pb:untagged-cep>
            </cvid-registration>
          </bridge-port>
          <name>eth1</name>
        </if:interface>
      </if:interfaces>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by	Approved by	Date	Page
		R.SERVADIO	-	24/01/2023	24 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML			Rev. 01

3.7 Delete CVLAN registration to SVLAN (CVLAN-ID=101)

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces"
        xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
        <interface>
          <name>eth1</name>
          <bridge-port xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
            <cvid-registration xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-pb" nc:operation="delete">
              <cvid>101</cvid>
            </cvid-registration>
          </bridge-port>
        </interface>
      </interfaces>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 25 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

3.8 VLAN Delete

REQUEST:

```
<?xml version="1.0" encoding="utf-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="">
  <edit-config>
    <target>
      <running/>
    </target>
    <config>
      <bridges xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge"
        xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
        <bridge>
          <name>Bridge-1</name>
          <component>
            <name>Component-1</name>
            <filtering-database>
              <vlan-registration-entry nc:operation="delete">
                <database-id>1</database-id>
                <vids>201</vids>
                <entry-type>static</entry-type>
              </vlan-registration-entry>
            </filtering-database>
            <bridge-vlan>
              <vlan nc:operation="delete">
                <vid>201</vid>
              </vlan>
            </bridge-vlan>
          </component>
        </bridge>
      </bridges>
    </config>
  </edit-config>
</rpc>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 26 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

4. NETWORK DISCOVERY

The examples above are referred to Network Discovery scenarios:

4.1 Hardware and Software inventory (INV_HW_01 + INV_FW_01)

Both hardware and software/firmware information are reported into the ietf-hardware module. For this reason they can be retrieved in a single query.

REQUEST:

```
<get>
  <filter type="subtree">
    <hw:hardware xmlns:hw="urn:ietf:params:xml:ns:yang:ietf-hardware"/>
  </filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <hardware xmlns="urn:ietf:params:xml:ns:yang:ietf-hardware">
    <component>
      <name>1</name>
      <class xmlns:iana-hw="urn:ietf:params:xml:ns:yang:iana-hardware">ianahw:chassis</class>
      <physical-index>1</physical-index>
      <description>DESCRIPTION-1</description>
      <parent-rel-pos>0</parent-rel-pos>
      <hardware-rev>001</hardware-rev>
      <firmware-rev>FW1</firmware-rev>
      <software-rev>SW1</software-rev>
      <serial-num>1111111111</serial-num>
      <mfg-name>MFG-NAME-1</mfg-name>
      <model-name>MODLE-NAME-2</model-name>
      <is-fru>true</is-fru>
    </component>
    <component>
      <name>2</name>
      <class xmlns:iana-hw="urn:ietf:params:xml:ns:yang:iana-hardware">ianahw:module</class>
      <physical-index>2</physical-index>
      <description> DESCRIPTION-2</description>
      <parent>1</parent>
      <parent-rel-pos>1</parent-rel-pos>
      <hardware-rev>002</hardware-rev>
      <firmware-rev>FW2</firmware-rev>
      <software-rev>SW2</software-rev>
      <serial-num>2222222222</serial-num>
      <mfg-name>MFG-NAME-2</mfg-name>
      <model-name>MODLE-NAME-2</model-name>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 27 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

```
<is-fru>true</is-fru>
</component>
...
...
</hardware>
</data>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 28 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

4.2 Microwave Carrier inventory (INV_CARRIER_01)

REQUEST (Radio Link Terminal):

```
<get>
  <filter type="subtree">
    <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
      <interface>
        <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:microwaveRadioLinkTerminal</type>
      </interface>
    </interfaces>
  </filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <name>rlt1</name>
      <description>RLT 1</description>
      <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:microwaveRadioLinkTerminal</type>
      <enabled>true</enabled>
      <link-up-down-trap-enable>enabled</link-up-down-trap-enable>
      <admin-status>up</admin-status>
      <oper-status>up</oper-status>
      <if-index>1</if-index>
      <speed>123456789000</speed>
      <mode xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link"
        xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:two-plus-zero</mode>
      <carrier-terminations xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">ct1</carrier-terminations>
      <carrier-terminations xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">ct2</carrier-terminations>
    </interface>
  </interfaces>
</data>
```

REQUEST (Carrier Termination):

```
<get>
  <filter type="subtree">
    <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
      <interface>
        <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:microwaveCarrierTermination</type>
      </interface>
    </interfaces>
  </filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 29 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	

```

xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
<interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
  <interface>
    <name>ct1</name>
    <description>CT 1</description>
    <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:microwaveCarrierTermination</type>
    <enabled>true</enabled>
    <link-up-down-trap-enable>enabled</link-up-down-trap-enable>
    <admin-status>up</admin-status>
    <oper-status>up</oper-status>
    <if-index>2</if-index>
    <speed>123456000</speed>
    <carrier-id xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">A</carrier-id>
    <tx-enabled xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">true</tx-enabled>
    <tx-oper-status xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">on</tx-oper-status>
    <tx-frequency xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">12000000</tx-frequency>
    <duplex-distance xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">1000000</duplex-distance>
    <actual-rx-frequency xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">13000000</actual-rx-frequency>
    <actual-duplex-distance xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">1000000</actual-duplex-distance>
    <channel-separation xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">56000</channel-separation>
    <rtpc xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">
      <maximum-nominal-power>11.0</maximum-nominal-power>
    </rtpc>
    <actual-transmitted-level xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">11.0</actual-transmitted-level>
    <actual-received-level xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">-46.0</actual-received-level>
    <single xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">
      <selected-cm xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-64</selected-cm>
    </single>
    <actual-tx-cm xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link"
      xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-64</actual-tx-cm>
    <actual-snr xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">35.9</actual-snr>
    <if-loop xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">disabled</if-loop>
    <rf-loop xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">disabled</rf-loop>
    <capabilities xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">
      <available-min-acm xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-4-strong</available-min-acm>
      <available-max-acm xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-2048</available-max-acm>
    </capabilities>
  </interface>
  <interface>
    <name>ct2</name>
    <description>CT 2</description>
    <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:microwaveCarrierTermination</type>
    <enabled>true</enabled>
    <link-up-down-trap-enable>enabled</link-up-down-trap-enable>
    <admin-status>up</admin-status>
    <oper-status>up</oper-status>
    <if-index>3</if-index>
    <speed>123456000</speed>

```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	<i>Issued by</i> R.SERVADIO	<i>Approved by</i> -	<i>Date</i> 24/01/2023	<i>Page</i> 30 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	<i>Document Number</i> ETSI-PT-4-NTCF-XML			<i>Rev.</i> 01

```

<carrier-id xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">A</carrier-id>
<tx-enabled xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">true</tx-enabled>
<tx-oper-status xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">on</tx-oper-status>
<tx-frequency xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">14000000</tx-frequency>
<duplex-distance xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">1000000</duplex-distance>
<actual-rx-frequency xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">15000000</actual-rx-frequency>
<actual-duplex-distance xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">1000000</actual-duplex-distance>
<channel-separation xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">56000</channel-separation>
<atpc xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">
  <maximum-nominal-power>21.0</maximum-nominal-power>
  <atpc-lower-threshold>-60.0</atpc-lower-threshold>
  <atpc-upper-threshold>-40.0</atpc-upper-threshold>
</atpc>
<actual-transmitted-level xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">18.0</actual-transmitted-level>
<actual-received-level xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">-37.0</actual-received-level>
<adaptive xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">
  <selected-min-acm xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-4-strong</selected-min-acm>
  <selected-max-acm xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-2048</selected-max-acm>
</adaptive>
<actual-tx-cm xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link"
  xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-2048</actual-tx-cm>
<actual-snr xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">40.8</actual-snr>
<if-loop xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">disabled</if-loop>
<rf-loop xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">disabled</rf-loop>
<capabilities xmlns="urn:ietf:params:xml:ns:yang:ietf-microwave-radio-link">
  <available-min-acm xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-4-strong</available-min-acm>
  <available-max-acm xmlns:mw-types="urn:ietf:params:xml:ns:yang:ietf-microwave-types">mw-types:qam-2048</available-max-acm>
</capabilities>
</interface>
</interfaces>
</data>

```

REQUEST (Radio Link Terminal + Carrier Termination):

As alternative to the previous two requests the same data can be retrieved with the following single request:

```

<get>
<filter type="subtree">
  <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <type xmlns:ianaif="urn:ietf:params:xml:ns:yang:iana-if-type">ianaif:microwaveCarrierTermination</type>
    </interface>
    <interface>
      <type xmlns:ianaif="urn:ietf:params:xml:ns:yang:iana-if-type">ianaif:microwaveRadioLinkTerminal</type>
    </interface>
  </interfaces>
</filter>
</get>

```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	<i>Issued by</i> R.SERVADIO	<i>Approved by</i> -	<i>Date</i> 24/01/2023	<i>Page</i> 31 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	<i>Document Number</i> ETSI-PT-4-NTCF-XML			<i>Rev.</i> 01

4.3 Ethernet Carrier inventory (INV_PORT_01)

REQUEST:

```
<get>
<filter type="subtree">
  <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <type xmlns:ianaif="urn:ietf:params:xml:ns:yang:iana-if-type">ianaif:ethernetCsmacd</type>
    </interface>
  </interfaces>
</filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <name>eth1</name>
      <description>ETH-1</description>
      <type xmlns:ianaif="urn:ietf:params:xml:ns:yang:iana-if-type">ianaif:ethernetCsmacd</type>
      <enabled>false</enabled>
      <link-up-down-trap-enable>enabled</link-up-down-trap-enable>
      <admin-status>down</admin-status>
      <oper-status>down</oper-status>
      <if-index>1</if-index>
      <phys-address/>
      <speed>1000000000</speed>
      <ethernet xmlns="urn:ieee:std:802.3:yang:ieee802-ethernet-interface">
        <auto-negotiation>
          <enable>true</enable>
        </auto-negotiation>
        <duplex>full</duplex>
        <flow-control>
          <force-flow-control>false</force-flow-control>
        </flow-control>
        <frame-limit-slow-protocol>10</frame-limit-slow-protocol>
      </ethernet>
      <bridge-port xmlns="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">
        <bridge-name>Bridge-1</bridge-name>
        <component-name>Component-1</component-name>
        <port-type xmlns:dot1q="urn:ieee:std:802.1Q:yang:ieee802-dot1q-bridge">dot1q:c-vlan-bridge-port</port-type>
        <pvid>1</pvid>
        <default-priority>0</default-priority>
        <acceptable-frame>admit-all-frames</acceptable-frame>
        <enable-ingress-filtering>false</enable-ingress-filtering>
        <port-number>1</port-number>
      </bridge-port>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 32 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML			Rev. 01


```
</interface>
...
...
</interfaces>
</data>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 33 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica		Document Number ETSI-PT-4-NTCF-XML		Rev. 01

4.4 LLDP information (INV_NET_01)

REQUEST:

```
<get>
  <filter type="subtree">
    <lldp xmlns:lldp="urn:ieee:std:802.1AB:yang:ieee802-dot1ab-lldp"/>
  </filter>
</get>
```

RESPONSE:

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
  <lldp xmlns="urn:ieee:std:802.1AB:yang:ieee802-dot1ab-lldp">
    <local-system-data>
      <chassis-id-subtype>mac-address</chassis-id-subtype>
      <chassis-id>00-B0-AC-0D-13-4A</chassis-id>
    </local-system-data>
    <port>
      <name>eth1</name>
      <dest-mac-address>01-80-C2-00-00-0E</dest-mac-address>
      <admin-status>tx-and-rx</admin-status>
      <port-id-subtype>interface-alias</port-id-subtype>
      <port-id>Gi0/1</port-id>
      <remote-systems-data>
        <time-mark>339282700</time-mark>
        <remote-index>2</remote-index>
        <chassis-id-subtype>mac-address</chassis-id-subtype>
        <chassis-id>00-B0-AC-0D-14-09</chassis-id>
        <port-id-subtype>interface-alias</port-id-subtype>
        <port-id>Gi0/1</port-id>
      </remote-systems-data>
    </port>
    ...
    ...
  </lldp>
</data>
```

SPEC DOC	ETSI PLUGTEST-4 NETCONF XML	Issued by R.SERVADIO	Approved by -	Date 24/01/2023	Page 34 of 34
Property of Siae Microelettronica. All rights reserved.	 siae microelettronica	Document Number ETSI-PT-4-NTCF-XML		Rev. 01	