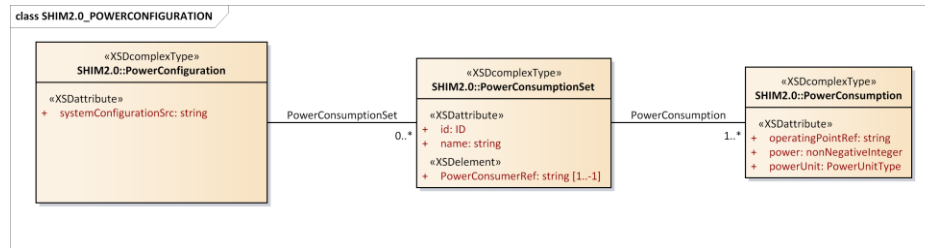


4.11 PowerConfiguration

SCHEMA



DESCRIPTION

PowerConfiguration allows to define the power consumption of one or several SHIM system components. It contains one or more *PowerConsumptionSet* elements.

This element is a root object. It is not part of the SHIM 2.0 system file and should be hosted in a separate XML file.

It has the following objects and/or attributes:

- **systemConfigurationSrc** (mandatory; type *string*): the path pointing to the related SHIM 2.0 system XML file. This path is relative to the current XML file.

EXAMPLE

```

<?xml version="1.0" encoding="UTF-8"?>
<shim:Shim
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:shim="http://www.multicore-association.org/2017/SHIM2.0/"
  xsi:schemaLocation="http://www.multicore-association.org/2017/SHIM2.0/ shim20.xsd"
  name="MySystemPower" shimVersion="2.0">
  <PowerConfiguration systemConfigurationSrc="com.vendor.mysystem.system.xml">
    <PowerConsumptionSet>
      <PowerConsumerRef>CS_CPU_CLUSTER</PowerConsumerRef>
      <PowerConsumption operatingPointRef="OP_CPU_CLUSTER_OFF"
        power="10" powerUnit="mW"/>
      <PowerConsumption operatingPointRef="OP_CPU_CLUSTER_LOWSPEED"
        power="176" powerUnit="mW"/>
      <PowerConsumption operatingPointRef="OP_CPU_CLUSTER_MAWSPEED"
        power="510" powerUnit="mW"/>
    </PowerConsumptionSet>
  </PowerConfiguration>
</shim:Shim>
  
```

4.11.1 PowerConsumptionSet

DESCRIPTION

A *PowerConsumptionSet* defines the power consumption points of one or several system components. This element contains one or more *PowerConsumption* elements that define the power consumption of their corresponding *OperatingPoint*. It also contains one or more *PowerConsumerRef* which points to the system components sharing those *PowerConsumption* definitions.

It has the following objects and/or attributes:

- **id** (mandatory; type *ID*): the id of this object.
- **name** (mandatory; type *string*): the name of this object.
- **powerConsumerRef** (mandatory; type *IDREF*): this object allows to specify the id reference of one or several system components that share the same *PowerConsumptionSet*.

EXAMPLE

See [PowerConfiguration](#).

4.11.2 PowerConsumption

DESCRIPTION

A *PowerConsumption* defines the power consumption associated to an *OperatingPoint*. It has the following objects and/or attributes:

- **id** (mandatory; type *ID*): the id of this object.
- **name** (mandatory; type *string*): the name of this object.
- **operatingPointRef** (mandatory; type *IDREF*): this object allows to specify the id reference of the *OperatingPoint* related to this power consumption definition.
- **power** (optional; type *nonNegativeInteger*): this attribute allows to specify the power consumption value.
- **powerUnit** (optional; type *PowerUnitType*): this attribute allows to specify the power units of the power attribute.

EXAMPLE

See [PowerConfiguration](#).