```
system SensorPedalPosition
  features
  -- Input ports for subcomponent
      mech_pedal_pos : in data port Base_Types::Boolean;
      elec_pedal_pos : in data port Base_Types::Boolean;

  -- Behavioral contracts for subcomponent
  annex agree {**
    guarantee "Mechanical and electrical pedal position agree" :
      true -> (mech_pedal_position = elec_pedal_position;
  };
end SensorPedalPosition;
```