VciPiInitiatorWrapper

1) Functional Description

This hardware component is a VCI/PIBUS protocol converter for a VCI initiator. It behaves as an intitiator on the PIBUS interface, and behaves as a target on the VCI interface. It can be used by a VCI initiator to interface a PIBUS based system on chip.

2) Component definition & usage

source:trunk/soclib/soclib/module/network_component/vci_pi_initiator_wrapper/caba/metadata/vci_pi_initiator_wrapper.sd?

```
Uses( 'vci_pi_initiator_wrapper', **vci_parameters)
```

See SoclibCc/VciParameters

3) CABA Implementation

CABA sources

- interface : source:trunk/soclib/soclib/module/network_component/vci_pi_initiator_wrapper/caba/source/include/vci_pi_initiator
- implementation : source:trunk/soclib/soclib/module/network_component/vci_pi_initiator_wrapper/caba/source/src/vci_pi_initiator_wra

CABA Constructor parameters

```
VciPiInitiatorWrapper( sc_module_name name);   //  Instance Name
```

CABA Ports

- sc_in<bool> **p_resetn** : Global system reset
- sc_in<bool> **p_clk** : Global system clock
- sc_in<bool> **p_gnt** : bus grant port (from the PIBUS contrioller)
- sc_out<bool> **p_req** : bus request port (to the PIBUS controller)
- soclib::caba::VciTarget<vci_param> **p_vci** : The VCI port
- soclib::caba::PibusInitiator **p_pi** : The PIBUS port

4) TLM-T Implementation

There is no TLM-T implementation for this component.