# VciRingInitiatorWrapper

## 1) Functional Description

This hardware component connects a VCI initiator to a RING interconnect. It can be used in conjunction with the VciRingTargetWrapper component to build a RING interconnect. This type of interconnect is well suited for FPGA implementations.

## 2) Component definition & usage

source:trunk/soclib/soclib/module/network_component/vci_ring_initiator_wrapper/caba/metadata/vci_ring_initiator_wrapper

## 3) CABA Implementation

### CABA sources

- interface : source:trunk/soclib/soclib/module/network_component/vci_ring_initiator_wrapper/caba/source/include/vci_ring_initi
- implementation : source:trunk/soclib/soclib/module/network_component/vci_ring_initiator_wrapper/caba/source/src/vci_ring_initiator_

### CABA Constructor parameters

```
VciRingInitiatorWrapper(sc_module_name  insname,                    // instance name
                        bool            alloc_init,                 // default token owner
                        const int       &wrapper_fifo_depth,        // command and response fifo
                        const soclib::common::MappingTable &mt,     // mapping table
                        const soclib::common::IntTab &ringid,       // Global subsystem index
                        const int &srcid);                          // attached initiator index
```

### CABA Ports

- sc_in<bool> p_clk; *Global System Clock*
- sc_in<bool> p_resetn; *Global System reset*
- soclib::caba::RingIn p_ring_in; *Ring input port*
- soclib::caba::RingOut p_ring_out; *Ring output port*
- soclib::caba::VciTarget<vci_param> p_vci; *VCI target port*

## 4) TLM-T Implementation

The TLM-T implementation is not yet available.