

VciAvalonInitiatorWrapper

1) Functional Description

This hardware component connects a VCI initiator to an AVALON interconnect. It can be used in conjunction with the [Vci Avalon Target Wrapper](#) component to build an AVALON interconnect. It is compliant with the BVCI protocol. (limitations ?..)

2) Component definition & usage

[source:trunk/soclib/soclib/module/network_component/vci_avalon_initiator_wrapper/caba/metadata/vci_avalon_initiator_wrapper.caba](#)

```
Uses( 'vci_avalon_initiator_wrapper', **vci_parameters, **avalon_parameters )
```

See [SoclibCc/VciParameters](#) and [SoclibCc/AvalonParameters](#)

3) CABA Implementation

CABA sources

- interface :
[source:trunk/soclib/soclib/module/network_component/vci_avalon_initiator_wrapper/caba/source/include/vci_avalon_initiator_wrapper.h](#)
- implementation :
[source:trunk/soclib/soclib/module/network_component/vci_avalon_initiator_wrapper/caba/source/src/vci_avalon_initiator_wrapper.c](#)

CABA Constructor parameters

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

CABA Ports

- `sc_in<bool> p_resetn` : Global system reset
- `sc_in<bool> p_clk` : Global system clock
- `soclib::caba::VciInitiator<vci_param> p_vci` : port from VCI initiator
- `soclib::caba::AvalonMaster<avalon_param> p_avalon` : port to Avalon Switch Fabric

4) TLM-T Implementation

There is no TLM-T implementation for this component.