

HalfGatewayTarget

1) Functional Description

This hardware component is a subcomponent of RingGateway. It handles outgoing responses and incoming commands to and from the ring to which it is attached.

2) Component definition & usage

source:trunk/soclib/soclib/module/network_component/half_gateway_target/caba/metadata/half_gateway_target.sd

3) CABA implementation

CABA sources

- interface :
source:trunk/soclib/soclib/module/network_component/half_gateway_target/caba/source/include/half_gateway_target.h
- implementation :
source:trunk/soclib/soclib/module/network_component/half_gateway_target/caba/source/src/half_gateway_target.cpp

CABA Constructor parameters

```
HalfGatewayInitiator(sc_module_name      insname,           // instance name
                     bool                 alloc_target,      // default target token owner
                     const int             &cmd_fifo_depth, // command fifo depth
                     const soclib::common::MappingTable &mt, // mapping table
                     const soclib::common::IntTab &ringid,  // global subsystem index
                     bool local);                          // routing parameter
```

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::GateTarget p_gate_target; *Port to gate initiator*

4) TLMT implementation

The TLM-T implementation is not available yet.