

# HalfGatewayTarget

## 1) Functional Description

This hardware component is a subcomponent of the dedicated interface : RingGateway. It handles outgoing responses and incoming commands from and to the ring interconnect 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);                             // command 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.