

# Where Are We on CCI?



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# SystemC CCI 1.0 (June 13, 2018)

- This first phase addresses “Configuration”
- Feedback from 90-day public review incorporated
- Library Reference Manual (64 pages)
- Tutorial presentation
- Reference implementation
- 23 documented examples that can be built and run
- Accellera online user forum

# How to Get It

The LRM and reference implementation can be obtained from the Accellera SystemC Downloads area (<http://accellera.org/downloads/standards/systemc>):

[Home](#) » [Downloads](#) » [Accellera Standards](#) » [SystemC](#)

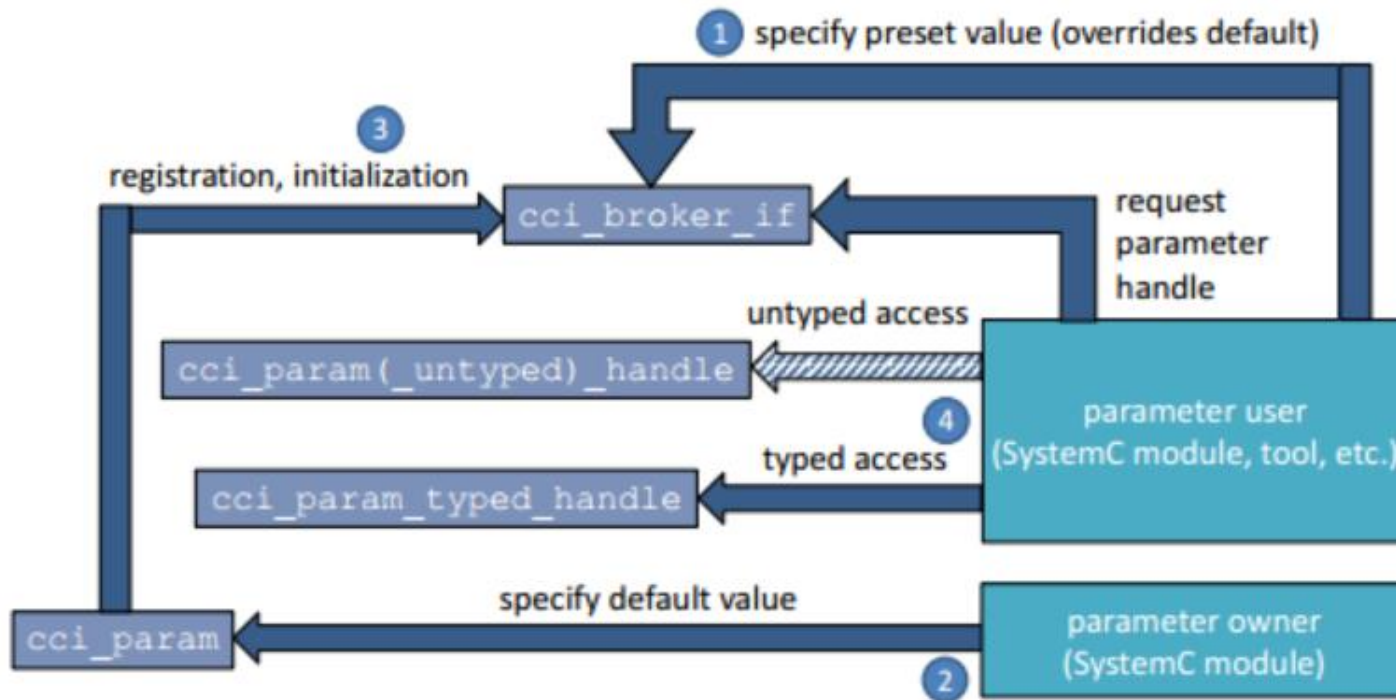
SystemC CCI 1.0	<a href="#">Configuration, Control &amp; Inspection Language Reference Manual</a>	2018-06-13
	<a href="#">CCI 1.0 Proof-of-Concept Kit</a>	2018-06-20

The user forum is available at <http://forums.accellera.org/forum/41-systemc-cci-configuration-control-inspection>

[Home](#) > [SystemC](#) > [SystemC CCI \(Configuration, Control & Inspection\)](#)

## SystemC CCI (Configuration, Control & Inspection)

# Configuration Bird's-Eye View



# Configuration Code Sample

```
SC_MODULE(simple_ip) {  
private:  
    cci::cci_param<int> int_param;  
public:  
    SC_CTOR(simple_ip) : int_param("int_param", 0)  
    {  
        int_param.set_description("...");  
        SC_THREAD(do_proc);  
    }  
    void do_proc() {  
        for(int i = 0; i < int_param; i++) {  
            ...  
        }  
    }  
};
```

Parameters are usually private members forcing brokered access

Default values must be supplied using the constructor argument

Owner reads parameter's value

# Configuration Adoption Feedback

- How many here have downloaded the kit?
- How many are using it?
- How many have plans to adopt the standard?
- How many have interest in adopting the standard?
  - What are the barriers to adoption?

# Planning for the Next Phase

- Leading candidates for the next phase of CCI, based on WG and community inputs are:
  - Checkpointing
  - Register Introspection

Both were presented and discussed at SystemC Evolution Day 2017.

- Considerations for choosing:
  - Anticipated benefit for the community (inputs welcomed today!)
  - Magnitude of the scope
  - Completeness and consistency of our understanding of the problem
    - Comprehensive requirements are even better
  - Contributions: both technology and WG member time