

Accellera Systems Initiative SystemC Standards Update

Mike Meredith | NASCUG 18, June 6, 2012




Accellera and OSCI Merge



- **To provide design and verification standards required by systems, semiconductor, IP and design tool companies**
- **To collaborate with the design community and deliver standards that lower the cost to design commercial EDA, IC and embedded system solutions**

IEEE 1666 SystemC Downloads

IEEE STANDARDS ASSOCIATION 

IEEE Standard for Standard SystemC® Language Reference Manual

IEEE Computer Society

Sponsored by the
Design Automation Standards Committee

IEEE
3 Park Avenue
New York, NY 10016-5997
USA

9 January 2012

IEEE Std 1666™-2011
(Revision of
IEEE Std 1666-2005)

- 47,165 downloads of IEEE1666-2005 through January 2012
- 5,158 downloads of IEEE1666-2011 from January 11 through **March 31-get update**

<http://standards.ieee.org/getieee/1666/download/1666-2011.pdf>

Working Group Activity

■ **SystemC Verification Working Group**

- New energy, meeting monthly
- Near term goals
 - SCV library updated for modern compilers, IEEE-1666 2011 compatibility
- Next goals now being determined
 - Join the group and give the benefit of your experience and requirements

■ **SystemC Synthesis Working Group**

- Working to finalize initial synthesizable subset
- Good agreement on almost all issues

- **Configuration, Control and Inspection Working Group**

- Public configuration requirements review complete
- Working on configuration standard 1.0

Working Group Activity

- **SystemC Analog / Mixed Signal Working Group**
 - SystemC AMS 2.0 draft standard public review complete
 - Preparing the final standard document
 - Aiming for approval and release by the end of this year
- **SystemC Language Working Group**
 - SystemC 2.3 draft library public review complete
 - Compatible with IEEE 1666-2011 SystemC standard
 - Preparing the final library release
 - Aiming for approval and release THIS MONTH!

All Accellera Systems Members Can Participate!

Corporate Members



Associate Members



Join A Working Group And Contribute!

The screenshot shows the Accellera Systems Initiative website. The Accellera logo is at the top left. Below it, the text 'SYSTEMS INITIATIVE' is visible. A navigation bar contains several menu items: ABOUT US, TECHNICAL ACTIVITIES, DOWNLOADS, COMMUNITY, NEWS & EVENTS, FORUMS, and WORKSPACE. The 'TECHNICAL ACTIVITIES' menu is expanded, showing sub-items: Overview, Technical Committees, IEEE Activities, Acronyms and Definitions, and SystemC Synthesis. The 'SystemC Synthesis' sub-item is selected, and the page content is for the 'SystemC Synthesis Working Group (SWG)'. The page has a left sidebar with a list of technical committees, including 'SystemC Synthesis'. The main content area has a title 'SystemC Synthesis Working Group (SWG)' and a sub-section 'Charter'. The charter text states: 'This group is responsible for the definition of a synthesizable subset of SystemC. Chair: Andres Takach, Mentor Graphics Vice-Chair: Michael Meredith, Forte Design Systems'. Below this is a 'Background' section with text: 'In August 2009, this group released the Synthesis Subset Draft 1.3 standard synthesis subset draft for public review. The draft features several technical updates. Supported language constructs are now established, and a chapter on processes, clocks, and resets has been added. The draft also includes a discussion on abstraction levels that puts the concepts of the synthesizable subset in the context of the abstraction levels defined for TLM. Public review of the draft is now closed. The draft is available for [download here](#).' Below the background is a section 'Join this Working Group' with text: 'If you are an employee of a member company and would like to join this working group, [click here](#) (requires login) and click Join Group. WG participation requires right of entry by the group chair.' To the right of the main content is a 'QUICK LINKS' box with two links: 'Download SystemC Synthesizable Subset Draft 1.3' and 'Group working area'. A Google Custom Search box is located at the top right of the page.