



IEEE DASC P1076.1 Working Group
<http://www.eda.org/vhdl-ams/>

Working Group Meeting June 26, 2013

Ernst Christen
 WG Chair
christen.1858@comcast.net

Administrative Issues

- ◆ **Approval of minutes of WG meeting**
 - Meeting of May 15, 2013, available at <http://www.eda.org/vhdl-ams>
- ◆ **Review of IEEE patent policy**
 - <http://standards.ieee.org/board/pat/pat-slideset.pdf>



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 3

Agenda

- ◆ **Call to order**
- ◆ **Approval of agenda**
- ◆ **Administrative issues**
 - Minutes of May 15, 2013 meeting
 - Review of IEEE patent policy
- ◆ **Project status and updates**
 - LRM plan
 - PDE support
- ◆ **Next meeting**
- ◆ **AOB**
- ◆ **Adjourn**



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 2

Project Updates

- ◆ **LRM plan:** Alain Vachoux
- ◆ **VHPI-AMS:** David Smith
- ◆ **1076.1.1 integration:** David Smith
- ◆ **Other mandatory changes:** Ernst Christen
- ◆ **Frequency domain modeling:** Ernst Christen
- ◆ **Mixed netlists:** Ernst Christen
- ◆ **Table-driven modeling:** Joachim Haase
- ◆ **Vector/matrix operations:** Zhichao Deng
- ◆ **Partial Differential Equations:** Vipin Ahuja



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 4

LRM Plan

◆ Baselined LRM

- Clauses 1 to 7 available in protected area on the Twiki site at <http://www.eda.org/twiki/bin/view.cgi/P10761/P10761201XLRMEditing>

◆ Work plan

- Available at http://www.eda.org/twiki/pub/P10761/P01761201XWorkArea/LRM_editing_workplan.txt



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 5

1076.1.1 Integration

◆ 2 members regular (David Smith, Ernst Christen)

◆ No Progress

- Depends on baselined LRM

◆ Next steps are:

- Partition and include existing 1076.1.1 when working on new LRM.
- David to develop requirements for Dimension support.
- Review against SI language once the material is in the new LRM.



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 7

VHPI-AMS

◆ 4 members regular

- David Smith (champion), Ernst Christen, Yaseen Zaidi, Peter Ashenden

◆ No progress

◆ Next steps

- Review functions (David)
- Review Verilog VPI presentation created by Yaseen
- Review Cadence VHPI-AMS material



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 6

Other Mandatory Changes

◆ No progress

- Depends on baselined LRM

◆ Next steps

- Baselined LRM



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 8

Frequency Domain Modeling

- ◆ **4 regular members, 7 total**
 - Ernst Christen (champion), Joachim Haase, David Smith, Zhichao Deng, Subramanian Sivaramakrishnan, Brian Mulvaney, Thuy Tran
- ◆ **White paper describing all aspects related to support frequency domain modeling ready for review and approval by WG**
- ◆ **No meetings planned**



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 9

Vector/Matrix Operations

- ◆ **4 regular members of subcommittee**
 - Zhichao Deng (champion), David Bishop, Subramanian Sivaramakrishnan, Ernst Christen
- ◆ **Work is of high interest to 1076 working group**
- ◆ **Early draft of matrix_real package currently under review by subcommittee**



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 11

Table-Driven Modeling

- ◆ **Members of TDM subcommittee:**
 - Joachim Haase (champion), Ernst Christen, Arpad Muranyi, Alain Vachoux
- ◆ **Work is also of interest to 1076 working group**
- ◆ **Last meeting November 13, 2012**
 - Discussion about IBIS and CSV files
- ◆ **Next steps**
 - Investigate callback architecture to support user-written reader functions
 - Protected types vs other approaches
 - Resolve issues raised regarding Touchstone and IBIS support
- ◆ **Next phone conference of TDM subcommittee TBD**



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 10

Next Steps

- ◆ **1076.1 revision**
 - Restart dormant projects
 - Scope of PDE project
- ◆ **Next meetings (announced at www.eda.org/vhdl-ams/):**
 - Wednesday, August 14, 2013, 8 am PDT (15:00 UTC)



IEEE DASC P1076.1 WG Meeting – June 26, 2013

<http://www.eda.org/vhdl-ams/> - 12