



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

**Working Group Meeting
September 9, 2015**

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Agenda

- ◆ **Call to order**
- ◆ **Approval of agenda**
- ◆ **Administrative issues**
 - Minutes of August 12, 2015 meeting
 - Review of IEEE patent policy
 - Approval process for LCSs
- ◆ **Project discussions**
 - Approval of LCSs LCS 201x-03, 201x-04, 201x-06
 - Analysis of LCSs 201x-01, 201x-02, 201x-05
 - Review of LCSs 201x-07, 201x-08, 201x-09, 201x-10
 - LRM status
- ◆ **Next meeting**
- ◆ **AOB**
- ◆ **Adjourn**

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Administrative Issues

- ◆ **Approval of minutes of WG meeting**
 - Meeting of August 12, 2015, available at <http://www.eda.org/vhdl-ams/>
- ◆ **Review of IEEE patent policy**
 - <http://standards.ieee.org/board/pat/pat-slideset.pdf>
- ◆ **Coordination with P1076**
 - No progress
- ◆ **Handling of copyrighted material**
 - No progress

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LCS Process 1 (Adapted from June 11, 2014)

1. **LCS author**
 1. Claim LCS number by entering LCS title and author in the table at <http://www.eda.org/twiki/bin/view.cgi/P10761/P10761201XLCSS>. Set status to "In progress"
 2. Download LCS template, create document: tracking/status information, summary, description, proposed LRM changes
 3. Upload document, create hyperlink, update status and date
2. **WG assigns reviewer**
3. **Reviewer**
 1. Study LCS, write analysis in corresponding section
 - Is the topic adequately covered in the LRM text?
 - Are there other places in the LRM affected by the topic?
 - It's OK to make changes in existing text if *Tracked*
 2. Upload review comments, update review status, notify author
 - To be done also if there are no changes/comments

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LCS Process 2 (Adapted from June 11, 2014)

4. **LCS author**
 1. Respond to review comments
 2. Possible iteration with reviewer
5. **WG approves LCS**
6. **LRM Editor updates LRM**



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Mandatory Changes: LCS Status

LCS	Title	LRM Clauses	Status
201x-01	External names	8.7	Submitted
201x-02	Simulation cycle	14.7.5	Submitted
201x-03	Architecture statements	3.3.3, 11, 14.5.3	Revised
201x-04	Types and natures	5	Revised
201x-05	Expressions	9	Submitted
201x-06	Sequential statements	10	Revised
201x-07	Specifications	7	Submitted
201x-08	Scope and visibility	12	Submitted
201x-09	Design units and their analysis	13	Submitted
201x-10	Lexical elements	15	Submitted



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Mandatory Changes: Per LRM Clause

Clause	Title	Status
3	Design entities and configurations	Partially covered in 201x-03
4	Subprograms and packages	To do, likely easy
5	Types and natures	201x-04
6	Declarations	To do, complex: genericity
7	Specifications	201x-07
8	Names	201x-01
9	Expressions	201x-05
10	Sequential statements	201x-06
11	Architecture statements	201x-03
12	Scope and visibility	201x-08
13	Design units and their analysis	201x-09
14	Elaboration and execution	Partially covered in 201x-02
15	Lexical elements	201x-10
16	Predefined language environment	To do: A'Element handling?
17-23	VHPI	To do, easy
24	Standard tool directives	To do, easy
Annexes		TBD



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Project Discussion: Other

- ♦ **Table-driven modeling**
 - Status
- ♦ **Vector/Matrix operations**
 - Status
- ♦ **Frequency domain modeling**
 - Needs review and approval
- ♦ **IEEE Std 1076.1.1 integration**
 - Needs analysis
- ♦ **Minor enhancements**
 - Not started



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Baseline P1076.1-201x LRM Status

- ◆ **Baseline LRM with all tags on Twiki site**
 - Now correctly identified as BL0.1
- ◆ **Clause 5 updated**
 - Fixed tag errors in sections 5.3.2.2 and 5.3.2.3
- ◆ **Clause 9 (LCS 201x-05)**
 - 9.4.3: P1076.1-2007 tag changed to P1076.1-2007-deleted
- ◆ **Clause 10 (LCS 201x-06)**
 - 10.5.2.1: same text in notes 4 and 5
 - After the examples in P1076-2002
 - Moved there in P1076.1-2007 and P1076-2008
 - Proposal to keep a single untagged note
 - 10.6.2.1: condition tags
 - Text tagged as P1076.1-2007 should be tagged as P1076.1-2007-deleted
 - Text tagged as P1076-2002 will exist in P1076-2008 and P1076.1-201x, so no need to duplicate the text with different tags



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LRM Update

- ◆ **Observation**
 - Update requests for LRM come from different directions
 - Consolidation, errata, new material
 - To avoid confusion, changes should be coordinated
- ◆ **Proposal for LRM updates**
 - Create Baseline LRM done
 - Apply Mandatory Changes in progress
 - Handle Errata
 - Include new functionality
 - TDM, VMO, FDM, 1076.1.1 integration, minor updates
 - Create new numbered draft after completion of each step



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Project Planning – Reminder

- ◆ **Completion of projects:** **Q1 2016**
 - Based on current data
- ◆ **Completion of LRM and other documents:** **Q2 2016**
 - Packages, UML
- ◆ **First ballot:** **Q3 2016**
- ◆ **Second ballot:** **Q2 2017**
- ◆ **RevCom:** **Q3 2017**
- ◆ **Expiration of extended PAR:** **Dec.31, 2017**
 - 2 year extension



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Next Steps

- ◆ **Technical work**
 - Mandatory Changes completion
 - Errata, based on IRs
 - Integration of IEEE Std 1076.1.1
 - New functionality projects: TDM, VMO, FDM, other
- ◆ **Administrative**
 - Handling of copyrighted material
 - Officer elections
 - P&P revision
- ◆ **Next meetings (announced at www.eda.org/vhdl-ams/):**
 - Wednesday, October 14, 2015, 8:00 am PDT (15:00 UTC)
 - Wednesday, November 11, 2015, 8:00 am PST (16:00 UTC)



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