IEEE 1149.4 Mixed-Signal Test Bus Working Group
Meeting Minutes

for
January 23rd, 2007

8:00 AM – 9:00 AM

Meeting Agenda:

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<th>Time</th>
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<td>8:00-9:00 AM</td>
<td>1. Review the meeting minutes for January 9th, 2007</td>
<td>All</td>
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<td>2. Update/Review the following action items:</td>
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<td></td>
<td>a. Revise Kitchen Sink example.</td>
<td>All</td>
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<td>b. Revise Straw Dog example.</td>
<td>Adam Ley</td>
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<td>c. ABSDL for STA400 chip.</td>
<td>Bambang</td>
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<td>3. Review ABSDL Draft.</td>
<td>All</td>
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<td>4. Other issues.</td>
<td>All</td>
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<tr>
<td>9:00 AM</td>
<td>Meeting adjourned</td>
<td>Bambang</td>
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Meeting Attendees:

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<th>Name</th>
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<tr>
<td>Adam Ley</td>
<td>Asset-Intertech</td>
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<tr>
<td>Heiko Ehrenberg</td>
<td>Goepel Electronics LLC</td>
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<tr>
<td>Marc Hutner</td>
<td>Teradyne</td>
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<tr>
<td>Roger Sowada</td>
<td>Honeywell</td>
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<tr>
<td>Bambang Suparjio</td>
<td>Mentor Graphics</td>
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1. Review the Meeting Minutes for January 9th, 2007
   a. Minute 2a: For Kitchen Sink example version 2, 3, Adam Ley suggested “with intest” should be removed from cells 4 and 7 comments, since in this example, not only those cells are to be used for INTEST operation.
   b. The meeting minutes for January 9th, 2007 have been approved, suggested by Heiko and seconded by Roger.

2. Update/Review on the following action items
   a. Revise Kitchen Sink example.
i. The Kitchen Sink example version 3_0 that includes the following digital differential types has been reviewed:

- Differential input with multiple capture cells.
- Differential output.
- Differential bidirectional with single capture cell.
- Differential bidirectional with multiple capture cells.

ii. All “with intest” comments need to be removed.

iii. Note: Pins/cells related to differential output will not be defined in MST_PORT_GROUPING attribute.

b. Revise Straw Dog example.

The status is still pending.

c. ABSDL for STA400 chip.

The status is still pending.

3. Review ABSDL Standard draft

The ABSDL draft version 1.9 has been reviewed. Below are the action items to update the draft.

a. Example of ABSDL for section 10.4.5.
   (Bambang)

b. Revise the following attribute MST_PORT_GROUPING rules:

i. 10.4.4.5.2d.
   In the case of the <MST twin group type> equal to Differential_Digital, each member of a <MST differential capture cell list> shall refer to a DBM cell.

ii. 10.4.4.5.2e.
   In the case of the <MST twin group type> equal to Differential_Analog, each member of a <MST differential capture cell list> shall refer to an ABM cell.

iii. 10.4.4.5.2g.
   The function of DBMs associated with the single-ended capture point of differential pins shall perform an observe-only function.

   (Adam Ley)
c. Provide a note for differential output in attribute MST_PORT_GROUPING.
   (Adam Ley)

d. Provide ABSDL introduction at the top level of section 10.4.
   (Bambang)

e. Insert differential output and bidirectional types in page 7, line 24:
   D4, D4N: out bit;
   D5, D5N: inout bit;
   (Adam Cron)

f. Insert differential output and bidirectional types in page 8, line 9 i.e. in
   attribute PORT_GROUPING.
   "Differential_Voltage ((D4, D4N)), " &
   "Differential_Voltage ((D5, D5N));
   (Adam Cron)

   The above action items should be ready by February 2\textsuperscript{nd}, 2007.

4. Other Issues

   The next meeting will be set when the action items in 3 above are ready to be
   reviewed.

5. The meeting adjourned at 9:00 AM.