

# IEEE 1149.4 Mixed-Signal Test Bus Working Group Meeting Minutes

for  
**January 23<sup>rd</sup>, 2007**

**8:00 AM – 9:00 AM**

**Meeting Agenda:**

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

**Meeting Attendees:**

Name	Company
Adam Ley	Asset-Intertech
Heiko Ehrenberg	Goepel Electronics LLC
Marc Hutner	Teradyne
Roger Sowada	Honeywell
Bambang Suparjo	Mentor Graphics

**1. Review the Meeting Minutes for January 9<sup>th</sup>, 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 9<sup>th</sup>, 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<sup>nd</sup>, 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.