IEEE 1149.1- 2011 Boundary Scan Working Group Minutes

**Date – 06/21/2011**

**Attendees**: CJ Clark, Bill Tuthill, Brian Turmelle, Carl  Barnhart,  Adam Cron, Carol Pyron, Bill Eklow, Craig Stephan,  Adam Ley, Peter Elias, Dave  Dubberke,  Josh Ferry, Ted Eaton, John Braden, Francisco Russi,

**Missing with pre-excuse** Wim Driessen, Heiko Ehrenberg, Roland Latvala ,

**Missing:** Lee Whetsel, Neil Jacobson, Mike Richetti, Ted Cleggett, Matthias Kamm, Ken Parker,


**Agenda**:

1) *11:00* Patent Slides and Rules of Etiquette
2) 11:05   BSDL discussion
    a. Register Fields
    b. Homework assignments


**Meeting Called to order at 11:00 am EST**
**Minutes**:

Review Patent Slide – Reminder sent out over email during the last week.
Review of Working Group Meeting Guidelines

*Peter Elias from JTAG Technologies has joined the Working Group*

Discussion on BSDL
**Package file example sent out in email**
Carl suggests using a "." instead of using a ":" in package statement to make it more like PDL
CJ feels that the statement is pointing out to a package file so colon seems more appropriate where the "." is more for an instance reference

Can the package name be dotted?
Left hand side of the ":" can be dotted.
Once you make the assignment in the BSDL there is no need to make a dotted statement in the PDL

Ted asks why we have 2 ways to do the same thing referring to the "using" statement
Carl- Flexibility
CJ – doesn't feel it is exactly the same thing.
Carl – The "using" statement is pointing to the package file where the group is defined.
Would it be easier to define the ireads and iwrites ,etc as just being the mnemonic

identifier and requiring another key word – a mnemonic group name – representing that field.

CJ – wouldn't want to move it into the register field statement because it would need to be used in each statement

Carl – as long as it is in the "mytdr2"

Carl – itrst, ireset are these write mnemonics or read mnemonics.

CJ – write mnemonics.

Ted – MEMD in using statement is refereeing to package file name. Dotted path refers to a package file calling out another package file.

Can I have a combination of use MEMD and : mnemonic list.? Can I have a mix to define my hierarchical path to define where my package is

CJ – no.

Ted – wants to know if it would be confusing to the industry if .1 and 1687 are doing the same thing

CJ – no.  There is overlap between .1 and the low level of 1687


Carl – is there a requirement to have multi-level hierarchy package files

CJ – well another way to do it is to require all package files pulled into the BSDL

Carl – doesn't want to do this way.

Carl – doesn't want to slow down the adoption of the standard by the tool vendors.

CJ – Doesn't feel that these changes are too difficult.  The use statement is already being parsed by tools today and would not be much effort to do multiple levels.


Adam C – is this the kind of thing that adds a lot of utility.  There is a lot of hand writing here?  If you are not handwriting the BSDL this is superfluous

CJ – agrees.  But the reason using came up was to keep having to make the text shorter. So the name doesn't need to be repeated over and over

Carol – Feels that the 2 formats are equivalent.

CJ – tells where to find the mnemonic group

Carol – doesn't have a preference either way.

Carol- doesn't understand the prefix dotted identifier

CJ – don't have good example of this but it is a good way to cut down on the size of the register

Heiko  – doesn't like the having 2 choices

Couldn't you get a lot of combinations using the dotted format having using and a prefix

CJ – would be mutually exclusive, wouldn't have both

Ted – why couldn't you have both?

CJ – prefix works on the register name and using is working on mnemonic so yes you could have both.

Carl – the register field and mnemonics are going to be defined in the same level package.  Wouldn't be defining mnemonic in package file and then defining register fields in BSDL

CJ – might not happen often but could happen

CJ doesn't want to go any further and add more capability.  Feels it is reasonable at the level that it is at.
CJ – feels the code changes for tool vendors would be straightforward.
CJ asks if these changes would be difficult for the other tool vendors in the meeting.
Heiko – not overly complex, just not comfortable with it yet

CJ – back to turning off the USING statement

Carol – limit the range of the using statement using a set of brackets
CJ – not keen to adding another set of () around the registers
Carol – using * would show that there is an empty state and no reference to a package.


CJ – thinks we were done on register_fields for the moment.  Doesn't see any more changes coming.

Ted – ESSID discussion. Where are we
Bill E – probably a homework for Bill and Mattias
CJ – floor is still open on that .  don't want to add a lot of features but it is on the table.
          Will need to see something more developed.
          Question is to see how far we can go with it.
Bill E – will take email discussion after presentation and compress it down and answer any
Carl – please come with definitions, statements, and justifications.
Bill E- main intention to have optional register to use for ESSID.  Just want to be able to have the register be option and people describe the register when using it.


Homework assignments.
          Heiko and Carol's assignments are outstanding and will be done for next week's meeting
          Bill E – work on more concrete example and definition of the ESSID register


**Meeting adjourned: 12:05** EST.

**Next Meeting**: 7/5/2011 11:00 AM EST

0 Motion Made




NOTES:

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1149.1 working group website -  http://grouper.ieee.org/groups/1149/1/


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**JOIN the meeting as GUEST – will have to ask to present**

 Meeting time: Tuesdays 11:00 AM (EST)   (Recurring)

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