

Date – 01/18/2016

Attendees: CJ Clark, Adam Ley, Bill Tuthill, Brian Turmelle, Craig Stephan, Dharma Konda, Gobinathan Athimolom, Gurgen Harutyunyan, Heiko Ehrenburg, JF Cote, Jon Colburn, Mike Ricchetti, Steve Sunter, Josh Ferry, Marc Hutner, Tapan J Chakraborty, Dwayne Burek,

Absent with Excuse: Bob Gottlieb,

Missing: Bill Huott, Carol Pyron, Jim Wilson, Kent Ng, Kevin Gorman, Tom Wayers, Dave Armstrong, Roger Sowada, Zahi Abuhanmdeh, Teresa McLaurin, Philippe Lebourg, John Braden, Saman Adham, Ismed Hartanto , Frans de Jong,

Agenda:

- 1) Patent Slides
- 2) Comments on draft V80/V81 light.
 - a. Is there a motion to accept Draft 81?
 - b. (this draft incorporates the changes voted on prior to the holiday for removing c-e pins. And has some editorial fix-up submitted by Craig in v81).
- 3) Let's step through draft v82. WG needs to decide on areas which one could call "user-defined verification".
- 4) Discuss Recommendation/Figure with b-s register and P1149.10
- 5) New Business
- 6) Adjourn

Meeting Called to order at 11:05 am EST

Minutes:

Review Patent Slide – Slides Presented to the Group.

Solicited input from anybody who is aware of patents that might read on our standard.

No responses noted.

Review of Draft v80/81.

No one commented on any issues or problems.

Craig makes a motion to accept draft v81 pending any future editorial modifications

Bill Seconds

No discussion

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Yes - 9

Bill T	Gobinatihan A	Mike R
Brian T	Gurgen H	Tapan C
Dharma K	Jon C	Craig S

No – 0

Abstain -2

Marc H	Steve S
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Motion passes. 9 yes. 2 abstain

Review of Draft v82

Discussion about parallel scan chains of different lengths. May need some clarification about the length differing from chain to chain.

Decompression:

Do we need to attribute? Need a key word with scan channel association to say that this scan group is using decompression mode. And these steps for verification would work? An Attribute that says over-shift valid? Assumes that there is an over-shift mechanism. Editor will add some clarification in response to differing scan lengths

Motion to Adjourn – Steve

Seconded – Tapan

Meeting adjourned: 11:57am EST

Next Meeting:

January 25th 2016 11:00am

Motion Summary

0 motion made

Action Items

~~*Bill Tuthill—10-21-2013—Add minutes and Attendance spreadsheet to the website.*~~

~~*CJ—11-11-2013—Reach out to ATE industry and Probe Industry to get update on future of ATE equipment to see which data speeds and protocols they are heading towards.*~~

~~*Philippe—Look into alternative method to create control information (pause, start, terminate, etc.) rather than using K characters in packet.*~~

~~*Bob—create a case study to show use of Attributes*~~

~~*Frans—will start some block diagrams of a simple use case to help illustrate the current architecture*~~

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***Dwayne—present to the group his ideas for a simplified scheme—Direct Interface.
Adam—invite someone from IEEE to speak on IEEE benefits of standardization at
WG meeting***

Call for Essential Patent notes

Adam Ley 12/1/2014

PN, TTL, AN

7348796, METHOD AND SYSTEM FOR NETWORK-ON-CHIP AND OTHER INTEGRATED CIRCUIT
ARCHITECTURES, DAFCA INC.

Steve Sunter 11/17/2014

1. US 7610532 "Serializer/de-serializer bus controller interface" Avago, granted 2009
2. US 7739567 "Utilizing serializer-deserializer transmit and receive pads for parallel scan test data" Avago, granted 2010
3. US 8543876 "Method and apparatus for serial scan test data delivery" Altera, granted 2014

NOTES:

1149.10 working group website - <http://grouper.ieee.org/groups/1149/10/>

Here is the WebEx conference link.

<https://meetings.webex.com/collabs/meetings/join?uuid=MAG12PB7HN5W24AM2EOKIOM9KS-KERT>

You can use VOIP on your computer or dial-in using the phone number below.

Audio Connection

+1-415-655-0001

Access code: 194 196 960