

IEEE 1149.10 High Speed JTAG Working Group Minutes

Date – 11/24/2014

Attendees: CJ Clark, Bill Tuthill, Brian Turmelle, Craig Stephan, Dharma Konda, Gobinathan Athimolom, Ismed Hartanto, Jon Colburn, Marc Hutner, Steve Sunter, Tapan J Chakraborty,

Absent with Excuse: Bob Gottlieb, Frans de Jong,

Not Present for $\frac{3}{4}$ of meeting:

Missing: Bill Huott, Carol Pyron, Jim Wilson, Kent Ng, Kevin Gorman, Tom Wayers, Heiko Ehrenburg, Dave Armstrong, Roger Sowada, Dwayne Burek, Zahi Abuhanmdeh, Mike Ricchetti, Saman Adham, Gurgun Harutyunyan, Teresa McLaurin, Philippe Lebourg, Josh Ferry, Adam Ley,

Agenda:

- 1) Patent Slide
- 2) 11:10: Motion to accept Clause 6 of draft V45
- 3) 11:35: Motion to accept Clause 7 of draft V45
- 4) New business for December 1st.
- 5) Motion to adjourn.

Meeting Called to order at 11:06 am EST

Minutes:

Review Patent Slide – Slide Presented to the Group.

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

Steve did a search on line and found a few references to patents that may be of question and provided these patents

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

No other responses notes.

Clause 6

Brian makes motion to accept clause 6 of draft version 45

Jon seconds

Discussion

Steve – unclear what instruction register clause 6 is referring to.. the one in Dot1 instruction register.

CJ – same as instruction register as 1149.1

Steve – not sure it is stated anywhere. Also the diagram figure 5.1 shoes TAP interface with no connection to instruction register.

If it is the same as DOT1, we have addition instructions for PEDDA, like dividing clock.

Steve – not clear in Clause 6 that when we write into register is the instruction register.

CJ – Clause 6 is dealing with packet to the HSTAP. Mention of the Instruction register would be in clause 5.

Tapan – should define what is “lane” for HSTAP

CJ – did not put clause 8 on agenda. Can put definition up for lane in the definition section section. Clause 6 is on the floor though.

Tapan –Clause 6.7 uses “lane”

CJ – Bond packet is mentioned. But it uses “lane” in description

CJ – will put lane in the definition section to describe it.

Tapan accepts that change for clause 6

Discussion closed

Vote

Bill T – Yes Dharma K – Yes Tapan C - Yes

Brian T – Yes Gobi A - Yes

Craig S – Yes Jon C - Yes

Motion passes

7/0/0

Clause 7

Brian makes motion to accept clause 7 of draft v45

Bill seconds

Discussion

No discussion

Call question

Vote

Bill T – Yes Dharma K – Yes Tapan C - Yes

Brian T – Yes Gobi A - Yes

Craig S – Yes Jon C - Yes

Motion passes

7/0/0

Clause 8

Tapan feels we should have some more time to look at clause 8 before voting on it.

CJ – could be some clean up on figures.

CJ – do we want to vote on accepting Clause 8 or wait?

Bill and Steve would like more time to review Clause 8 before a vote is cast.

Brian – formatting on clause 8 didn't follow previous format of clauses.
i.e. Example comes before rules.

CJ - OK. Formatting is different. Will make consistent with previous clauses

Jon – Some font weirdness in third paragraph around figure.

Bill makes motion to adjourn

Steve seconds.

Send New Business request to reflector

Please use reflector to review what is in the Draft.

Please send comments to reflector.

Anything that needs to be updated or you would like discussed

Motion to Adjourn: Bill

Seconded: Steve

Meeting adjourned: 11:43 am EST

Next Meeting:

Dec 1st, 2014 11:00am

Motion Summary

2 motions made

1) Accept Clause 7 of draft 45, subject to further changes

a. Passes

b. 7/0/0

2) Accept Clause 6 of draft 45, subject to further changes.

a. Passes

b. 7/0/0

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*
~~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~~

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