

IEEE 1149.10 High Speed JTAG Working Group Minutes

Date – 11/02/2015

Attendees: CJ Clark, Adam Ley, Bill Tuthill, Brian Turmelle, Craig Stephan, Dharma Konda, Gobinathan Athimolom, JF Cote, Jon Colburn, Josh Ferry, Mike Ricchetti, Steve Sunter, Tapan J Chakraborty,

Absent with Excuse: Bob Gottlieb, Saman Adham,

Missing: Bill Huott, Carol Pyron, Jim Wilson, Kent Ng, Kevin Gorman, Tom Wayers, Heiko Ehrenburg, Dave Armstrong, Roger Sowada, Zahi Abuhanmdeh, Teresa McLaurin, Philippe Lebourg, Gurgen Harutyunyan, Frans de Jong, John Braden, Dwayne Burek, Marc Hutner, Ismed Hartanto,

Agenda:

- 1) Patent Slides
- 2) Review of PDL Clause 9 additions
- 3) New Business
- 4) Adjourn

Meeting Called to order at 11:04 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 PDL Clause 9

Updated PDL examples is 9.1.3

iConfig Command

Mostly Updated Formatting

iTarget Command

Updated Formatting

iReset10 Command

Added link to 6.4.2c (rule for reset packet)

iRaw Command

Updated formatting for rules.

iBond

Updated Formatting

Separating out description rules and examples

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Standardized PDL procedures was pushed down to the bottom of the section.

CJ – Any feedback?

JF – Looks like choosing iTarget followed with an integer might be difficult with a future standard. May have problem targeting something other than PEDDA in a future standard. Works in pure context of DOT10, but might be hard to identify a different target in a future standard.

CJ - could add another key word. But should work in the context of the version of the standard

JF – Could do that. But couldn't have two versions working together.

CJ – can consider adding an extra key word.

CJ – would want to do it on iConfig as well?

JF – would do the same. They are general names, without a context you are not very future proof.

CJ – does anyone object to adding an extra parameter?

Craig – maybe iTarget10? Like iReset10?

JF –yes.. That would be a consistent way.

CJ – doesn't matter. Purely editorial.

Josh – doesn't have a preference.

Tapan – iTarget10 would be more consistent.

Josh – if we do it for one maybe we should do it for all.

JF – and would be self-documenting. And would be a clear distinction from DOT1 commands.

Compliance Verification

Adam – sounds like a guided reading of the standard, sounds informative.

CJ - wanted it to be a little more formal than what we have in DOT1

CJ – should consider is the presence of the enable procedure. We might want to add the types of enabling to make the HSTAP compliant. At the moment the only thing that tells you that you have to enable the HSTAP is that you have the 1149.1 TAP and you have the procedures. If someone forgot the procedures you don't know if they forgot or if you don't need them. Might want an attribute in the HSTAP to indicate whether the TAP is necessary to enable compliance.

Compliance enable character and pins.. Pins already have an attribute. So you know for sure this is required for enabling compliance.

Call for any more New Business

No more new Business

JF requested to get added to the distribution list.

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Motion to Adjourn – Josh
Seconded – Tapan

Meeting adjourned: 11:35 am EST

Next Meeting:

November 2nd 2015 11:00am

Motion Summary

0 motions 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*~~

~~*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.

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2015

Monday, November 02,

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

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