

**Date – 07/07/2014**

**Attendees:** CJ Clark, Adam Ley, Bill Tuthill, Bob Gottlieb, Brian Turmelle, Craig Stephan, Dharma Konda, Gobinathan Athimolom, Gurgen Harutyunyan, Ismed Hartanto, Josh Ferry, Jon Colburn, Marc Hutner, Tapan J Chakraborty, Teresa McLaurin,

**Absent with Excuse :** Frans de Jong, Steve Sunter,

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

**Missing:** Bill Huott, Carol Pyron, Jim Wilson, Kent Ng, Kevin Gorman, Tom Waayers, Heiko Ehrenburg,

Dave Armstrong, Roger Sowada, Dwayne Burek, Zahi Abuhanmdeh,

Mike Ricchetti, Philippe Lebourg, Saman Adham,

**Agenda:**

- 1) Patent Slide
- 2) Motion to accept Clause 6 in draft V26
  - a. V23 set for review last week. Includes changes suggested from Craig and Steve. Which became V24 and V25. Changes to 6.10.1 from Brian makes V26.
    - i. Floor open for discussion
    - ii. Vote
- 3) New Business
- 4) Adjourn

**Meeting Called to order at 11:05 am EDT**

**Minutes:**

Review Patent Slide – Slide Presented to the Group.

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

No Response

Review up updates to Clause 6

Changes made based on feedback from Steve and Craig and Brian.

Updated 7.4 to give definitions for Control Chars

Target ID is 16 bits. (Did not accept Steve's comment for target ID due to it being 2 bytes)

Reset Packet is one hot. To toggle reset on and off

Raw Packet – updated PRBS wording

Scan Packet - wording suggestions from Steve to clean up confusion.

Section 6.7 – Response Packets updated

ResetR

RawR

ScanR

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### Clause 7

Added Descriptions of control characters in section 7.4  
Tapan – all changes are in v26 for draft.  
CJ – v26 is the latest and includes changes in clause 6  
Added 6.7 – 6.11 of clause 6.

Craig makes motion to accept clause 6 in its entirety pending further editorial changes.  
Marc seconds  
Discussion:

Bob- Bit transmit direction not clear left to right MSB to LSB. We send it LSB to MSB?  
CJ – you can specify it either direction.  
Bob – in examples you are doing MSB to LSB?  
CJ – Examples are using LSB transmitted first. That is common for SERDES for instance (and other serial protocols like SPI). Figure 6-8, 6-5 are attempting to show direction bits will go out of transmitter. I'm open to change it if I have it wrong or it is 'non-conventional'. I thought I took this from another protocol, but I have not been able to find a source that confirms this.

Bob – confusing. Looks like we are trying to show that data is transmitted left to right. but we are trying to start at the right  
CJ – figures were made with the intent to show data transmitted right to left.  
Bob – its fine if it makes sense to other people.  
No one else in the group mentioned that the figures looked like data was coming out backwards from what was stated.

No further comments.

### Motion Results

#### Yes

Bill T	Craig S	Josh F
Brian T	Dharma	Jon C
Bob G.	Ismed	Marc

#### No

#### Abstain

Adam L  
Teresa M  
Gobi \*

Passes

9/0/3

\*Gobi had audio issues and could not verbally cast a vote. (Sent a private message to Brian T. indicating a “YES” vote, but at this time the chair is only recognizing votes cast verbally)

### Call for New Business

No new business

Please use reflector to review what is in the Draft.

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Please send comments to reflector.

Anything that needs to be fixed or you would like discussed

**Motion to Adjourn: Bill**  
**Seconded: Jon**  
**Meeting adjourned: 12:00 pm EDT**

**Next Meeting:**  
July 14th, 2014 11:00am

### *Motion Summary*

#### *1 motions made*

*a. Motion to except clause 6 in its entirety subject to further editorial changes.*

#### *i. Passed*

- 1. 9 Yes*
- 2. 0 No*
- 3. 3 Abstain*

### *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.*~~

### 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

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