

Accredited Standards Committee\*  
**NCITS, Information Technology**

<b>Doc. No.:</b>	T10/01-088r0
<b>Date:</b>	March 5, 2001
<b>Project:</b>	SDV 1378-DT
<b>Ref. Doc.:</b>	
<b>Reply to:</b>	John Lohmeyer Bill Ham

To: Membership of T10

From: John Lohmeyer, chair SDV working group  
Bill Ham, Secy SDV working group

Subject: Draft minutes of T10 SDV working group on March 05, 2001

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**Agenda**

1. Opening remarks and introductions
2. Attendance and membership
3. Approve agenda
4. Document distribution
5. Review minutes of previous meeting
6. Review old action items
7. Old Business
  - 7.1 Domain Validation Testing Methods (01-033) [Gibbons]
  - 7.2 SDV working draft review [Roberts]
8. New Business
  - 8.1 Definition of margin fields in mode pages [Ham]
  - 8.2 Definition of values in margin fields [Ham]
  - 8.3 LSI Logic Patent Position re SDV (01-059) [Lohmeyer]
  - 8.4 Is "domain" the right word for this effort? [Ham]
9. Review action items
  - 9.1 Action items from previous meetings
  - 9.2 New action items from this meeting
10. Next meetings
11. Adjourn

**Results of Meeting**

**1. Opening remarks and introductions**

John Lohmeyer led the meeting. He opened the meeting at 9:00 a.m. and thanked Paul Aloisi of Texas Instruments for hosting this meeting. Bill Ham took these minutes.

**2. Attendance and membership**

Name	S	Organization	Electronic Mail Address
Mr. Ron Roberts	P	Adaptec, Inc.	Ron_Roberts@adaptec.com
Mr. Wally Bridgewater	V	Adaptec, Inc.	wally@eng.adaptec.com
Mr. Robert C. Elliott	P	Compaq Computer Corp.	Robert.Elliott@compaq.com
Dr. William Ham	A	Compaq Computer Corp.	bill_ham@ix.netcom.com
Mr. Wayne Bellamy	V	Compaq Computer Corp.	wayne.bellamy@compaq.com
Mr. Nathan Hastad	P	General Dynamics	nathan.j.hastad@gd-is.com
Mr. John Lohmeyer	P	LSI Logic Corp.	lohmeier@t10.org
Mr. William Petty	A	LSI Logic Corp.	william.petty@lsil.com
Mr. Terry Gibbons	V	LSI Logic Corp.	terry.gibbons@lsil.com
Mr. Mark Evans	P	Quantum Corp.	mark.evans@quantum.com
Mr. Gerald Houlder	P	Seagate Technology	gerry_houlder@seagate.com
Mr. Paul D. Aloisi	P	Texas Instruments	Paul_Aloisi@ti.com
Mr. Donald R. Getty	A#	Texas Instruments	donald_getty@ti.com
Mr. Mike Kosco	V	Texas Instruments	mike@chipcraft.com
Mr. Ron Mathews	AV	UNISYS Corporation	ronald.mathews@unisys.com

15 People Present

Status Key: P - Principal  
 A,A# - Alternate  
 AV - Advisory Member  
 L - Liaison  
 V - Visitor

**3. Approve agenda**

The agenda shown above was used by agreement of the group.

**4. Document distribution**

Documents are distributed electronically by means of the T10 web site:  
[www.t10.org](http://www.t10.org).

**5. Review minutes of previous meeting**

Motion Lohmeyer/Ham that the draft minutes as modified be approved from the last meeting. Motion passed without objection.

**6. Review old action items**

The action items from the last meeting were reviewed and the status is noted in the action items section.

**7. Old Business**

### **7.1 Domain Validation Testing Methods (01-033) [Gibbons]**

Terry went through the material in 01-033r1. As a result of extensive discussions Terry is actioned to produce a new revision that incorporates the results of these discussions.

### **7.2 SDV working draft review [Roberts]**

Ron led the review of the latest document, SDV rev 03b. A number of changes were suggested and accepted. See the rev 04 for the details.

Motion Bridgewater/Ham that SDV allow the inclusion of approved receiver parameters.

Motion passes: 4 in favor, 1 opposed, 3 abstaining

Ron is actioned to create rev 04 of SDV before the next meeting.

## **8. New Business**

### **8.1 Definition of margin fields in mode pages [Ham]**

The present content of the margin fields revealed that the description of the intent of these fields were not complete. In particular the ground bias offset parameter was renamed to driver asymmetry. A similar parameter is needed for the receiver.

### **8.2 Definition of values in margin fields [Ham]**

There is a table in the present draft of SDV that contains some values for the margin fields. This table does not agree with a similar set of requirements in the draft SPI-4 document. This needs to be rationalized.

There was also an important discussion about who/where the values used are set. Of particular interest is the case when the manufacturer sets the margin adjustments all the way to one extreme thereby leaving no possible adjustments by the system implementer.

This topic is one of several relating to how SDV is intended to be used. Bill Ham called for development of a list of probable uses. Examples are: verification of design prior to shipment, diagnostic aid for systems, determination of better settings for operation in specific configurations with specific hardware. Each of these, and other uses, invites different way to use the capabilities of SDV.

This topic needs to be continued at the next meeting.

### **8.3 LSI Logic Patent Position re SDV (01-059) [Lohmeyer]**

John L presented 01-059r0 that stated the LSI Logic patent position regarding the SDV Technical Report. John noted that LSI has a U.S. patent (number 6,035,425) that bears on SDV.

#### **8.4 Is "domain" the right word for this effort? [Ham]**

The term "domain validation" does not describe the intent or content of the SDV project. The SDV now does address the entire domain so the word "domain" seems to be appropriate. The term "validation", however, is not accurate and ideally should be replaced by some term such as "evaluation", "characterization", "properties", or the like.

However, the term "domain validation" has been engrained in the vernacular and cannot easily be changed. The approach suggested was to leave the term "domain validation" in the project title and in the scope section but to not use the term "validation" in the body of the document.

### **9. Review action items**

#### **9.1 Action items from previous meetings**

Terry Gibbons to issue 01-033r1 containing a flow and other agreed modifications.  
Status: done

Ron Roberts to issue rev 04 of SDV containing the information agreed to at the January meeting.  
Status: carried over

#### **9.2 New action items from this meeting**

Terry Gibbons to produce a new revision of 01-031r1 that incorporates the results of discussions in this meeting  
Status: new

Ron Roberts create rev 04 of SDV before the next meeting that contains the changes agreed at this meeting.  
Status: new

### **10. Next meetings**

The next meeting will be on March 26 1PM to 6PM, March 27, 9-5 in Silicon valley hosted by Adaptec.

The meeting on April 30, 2001 9:00 a.m. to 5:00 p.m in Nashua, NH has been canceled.

No interim meetings are presently planned.

**11. Adjourn**

The meeting adjourned at 5:00PM on Monday March 05, 2001.