IEEE-SA Standards Board Project Authorization Request (PAR) Form (1999-Rev 1)

Note: For use with help hyperlinks offline, download guide.html and parsgn99.html into the same directory.

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1. **Sponsor Date of Request**	2. **Assigned Project Number**	3. **PAR Approval Date**
1999 Apr 14	P1450.2	26 June 1999

{Copyright release must be submitted with appropriate signatures by postal mail or FAX (1-732-562-1571)}

[X] PAR Signature Page received {IEEE Staff to check box}

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4. Project Title, Recorder and Working Group/Sponsor for this Project

Document type and title: {Place an X in only one option below}

- [X] **Standard for** {document stressing the verb "shall"}

- [ ] **Recommended Practice for** {document stressing the verb "should"}

- [ ] **Guide for** {document in which good practices are suggested}

Title: **Standard for Extensions to Standard Test Interface Language (STIL) (IEEE Std. 1450-1999) for DC Level Specification**

Name of Working Group:			STIL Extensions Working Group
Name of Official Reporter (usually the W.G. Chair) who must be IEEE/Affiliate AND Standards Association (SA) members.			Tony Taylor
Title in WG:	Chairman	IEEE/Affiliate Member #	40243923
Company:	Fluence Technology	Telephone:	831-768-9224
Address:	2661 Beach Rd., P58	FAX:	831-768-9224
City/State/Zip:	Watsonville, CA. 95076	Email:	t.taylor@ieee.org

Name of Working Group Chair (if different):			[...]
		IEEE/Affiliate Member #	[...]
Company:	[...]	Telephone:	[...]
Address:	[...]	FAX:	[...]
City/State/Zip:	[...]	Email:	[...]

Name of Sponsoring Society and Committee:	Computer Society/Test Technology

		Test Technology Standards committee	
Name of Committee Sponsor Chair:		Pat McHugh	
		IEEE/Affiliate Member #	[02712842]
Company:	[Lockheed Martin-EPI]	Telephone:	[609-338-5969]
Address:	[PO Box 14066]	FAX:	[609-338-2967]
City/State/Zip:	[Philadelphia, PA 19122]	Email:	patrick.f.mchugh@lmco.com

5. Describe This Project; *Answer each of four questions below:*

a. Update an existing PAR [NO]

   If YES, indicate PAR Number/Approval Date
   If YES, attach a cover letter indicating changes/rationale for changes.
   If YES, is this project in ballot now? []

b. Choose one from the following:

   [Yes] New Standard
   [...] Revision of existing Standard {number and year} [...]
   [...] Amendment (Supplement) to an existing standard {number and year} [...]
   [...] Corrigenda to an existing standard {number and year} [...]

c. Choose one from the following:

   [X] Full Use (5-year life cycle)
   [...] Trial Use (2-year life cycle)

d. Choose one from the following:

   [X] Individual Sponsor Balloting
   [...] Entity Sponsor Balloting

e. Fill in Target Completion Date to IEEE RevCom : Q1/2000

6. Scope of Proposed Project:

Define structures in STIL for specifying the DC conditions for a device under test. Examples of the DC conditions for device power supplies are: device power supply setup, power sequencing to the device, power supply limiting / clamping. Examples of the DC conditions for commonly used signal references are: VIL, VIH, VOL, VOH, IOL, IOH, VREF, VClampLow, VClampHi.

Define structures in STIL such that the DC conditions may be specified either globally, by pattern burst, by pattern, or by vector.

Define structures in STIL to allow specification of alternate DC levels. Examples of commonly used alternate levels are: VIHH, VIPP, VILL.

Define structures in STIL such that the DC levels and alternate levels can be selected within a period, much the same as timed format events.

7. Purpose of Proposed Project:

This effort will define constructs in STIL to specify the DC conditions necessary to execute the digital vectors on Automated

Test Equipment (ATE). This will complement the IEEE Std. 1450-1999 definition which defines structures for specification of timing and format information, but does not define the DC conditions under which this information should be applied.

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8. Intellectual Property {Answer each of the questions below}

    a. Are you aware of any patents relevant to this project?

        [No] {Yes, with detailed explanation below / No}
        [...] {Explanation}

    b. Are you aware of any copyrights relevant to this project?

        [No] {Yes, with detailed explanation below / No}
        [...] {Explanation}

    c. Are you aware of any trademarks relevant to this project?

        [No] {Yes, with detailed explanation below / No}
        [...] {Explanation}

    d. Are you aware of any registration of objects or numbers relevant to this project?

        [No] {Yes, with detailed explanation below / No}
        [...] {Explanation}

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9. Are you aware of any other standards or projects with a similar scope?

[Yes] {Yes, with detailed explanation below / No}
IEEE Std. 716-1995 (C/ATLAS) addresses test with very general
capabilities, and has not been applied to digital testing in this domain.
The issues of this PAR are not addressed by C/ATLAS.

IEEE Std. 1029.1-1998 (WAVES) has a focus on the support of VHDL
and is not of sufficiently narrow scope to address the issues of this PAR.

IEEE Std. 1445-1998 (DTIF) is constrained to a capability that does
not support the issues being addressed by this PAR.

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10. International Harmonization

Is this standard planned for adoption by another international organization?
[??] {Yes/No/?? if you don't know at this time}
If Yes: Which International Organization [...]
If Yes: Include coordination in question 13 below
If No: Explanation [...]

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11. Is this project intended to focus on <u>health, safety or environmental issues</u>?

   [No] {Yes/No/?? if you don't know at this time}
   If Yes: Explanation [...]

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12. Proposed Coordination/Recommended Method of Coordination

    a. <u>Mandatory Coordination</u>

SCC 10 (IEEE Dictionary)   by **DR** {Circulation of **DR**afts}

IEEE Staff Editorial Review by   by **DR**

SCC 14 (Quantities, Units and Letter symbols)   by **DR**

    b. <u>Coordination</u> requested by Sponsor:

1450/STIL Working Group   by Greg Maston {**CO**mmon memb}

P1500/Core Test Language Working Group   by Rohit Kapur {**LI**aison memb}

[.......................]   by [...]   {circulation of **DR**afts/**LI**aison memb/**CO**mmon memb}

[.......................]   by [...]   {circulation of **DR**afts/**LI**aison memb/**CO**mmon memb}

    c. <u>Coordination Requested by Others</u>:

      [...] {added by staff}

Additional Explanation Notes: {Item Number and Explanation}

[...]{If necessary, these can be continued on additional pages}

The <u>PAR Copyright Release and Signature Page</u> must be submitted by FAX or physical delivery before this PAR will be sent on for NesCom and Standards Board approval.

PAR Copyright Release and Signature Page

1. Sponsor Date of Request
1999 Apr 30

2. Assigned Project Number
P1450.2

3. PAR Approval Date
26 June 1999

4. Project Title: Extensions to STIL (IEEE Std. 1450-1999) for DC Level Specification

Copyright Release/Offical Reporter Signature

I hereby acknowledge my appointment as Official Reporter (usually the WG Chair) to the
STIL Extensions Working Group
In consideration of my appointment and the publication of the Standards Publication identifying me, at my
option, as an Official Reporter, I agree to avoid knowingly incorporating in the Standards Publication any
copyrighted or proprietary material of another without such other's consent and acknowledge that the
Standards Publication shall constitute a "work made for hire" as defined by the Copyright Act, and, that
as to any work defined, I agree to and do hereby transfer any right or interest I may have in the copyright
to said Standards Publication to IEEE.

Signature of Official Reporter _Tony Taylor_

Name of Official Reporter (usually the W.G. Chair) who must be an IEEE/Affiliate AND Standards
Association (SA) member. [Tony Taylor]

Title in WG:	Chairman	IEEE/Affiliate Member #	40243923
Company:	Fluence Technology	Telephone:	831-768-9224
Address:	2661 Beach Rd., P58	FAX:	831-768-9224
City/State/Zip:	Watsonville CA 95076	Email:	t.taylor@ieee.org

Sponsor Approval Signature
Submitted by:

(This MUST be the Sponsor Chair or the Sponsor's Liaison Representative to the IEEE Standards
Board) who must be an IEEE/Affiliate AND Standards Association (SA) member. If the Sponsor chair is
the submitter of the PAR by EMAIL and verifiable by his sender's Email address, this form does not need
to be signed by the sponsor. The submitter will be notified in writing when the PAR is received and when
the PAR will be considered for approval by the Standards Board. After the Standards Board meeting, the
submitter will be notified in writing of the action taken.

Signature of Submitter _Taft F. Math_

Name of Committee Sponsor Chair: Pat McHugh

Company: Lockheed MARTIN-EPI

Address: PO Box 14066

City/State/Zip: Phila, PA 19122

IEEE/Affiliate Member# 02712842

Telephone: (609) 338-5969

FAX: (609) 338-2967

Email: Patrick.f.mchugh@lmco.com

Signature by IEEE Officer: _____ Date: 26 June 1999

Title: SASB Chair