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24 March 2003

Narayanan Ramachandran
TYX Corporation
1910 Association Drive, 2nd floor
Reston, VA 20191-1502
nr@tyx.com

Re: P1636 - Software Interface for Maintenance Information Collection and Analysis

Dear Narayanan:

I am pleased to inform you that on 20 March 2003 the IEEE-SA Standards Board approved the above referenced project until 31 December 2007. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1636.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2f under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at j.haasz@ieee.org no later than 18 June 2003.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at 732-562-6367 or by email at j.haasz@ieee.org.

Sincerely,

Jodi Haasz
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IEEE-SA Governance and Electronic Processes
Standards Activities
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PAR FORM

PAR Status: New PAR
PAR Approval Date: 2003-03-20
PAR Signature Page on File: Yes
Review of Standards Development Process: No

1. Assigned Project Number: 1636

2. Sponsor Date of Request: 2002-10-21

3. Type of Document: Standard for

4. Title of Document:

Draft: Software Interface for Maintenance Information Collection and Analysis

5. Life Cycle: Trial Use

6. Type of Project:

6a. Is this an update to an existing PAR? No

6b. The Project is a: New Standard

7. Contact Information of Working Group:

Name of Working Group: IEEE Standards Coordinating Committee 20 Diagnostic and Maintenance Control Subc

Name of Working Group Chair: Mark Kaufman

Telephone: 909-273-5725 **FAX:** 909-273-5446

Email: kaufmanma@corona.navy.mil

8. Contact Information of Official Reporter (If different than Working Group Chair)

Name of Official Reporter: (if different than WG contact) Timothy J Wilmering

Telephone: 314-234-6781 **FAX:** 314-232-8787

Email: timothy.j.wilmering@boeing.com

9. Contact Information of Sponsoring Society or Standards Coordinating Committee:

Name of Sponsoring Society and Committee: SCC20-Test and Diagnosis for Electric Systems

Name of Sponsoring Committee Chair: Narayanan Ramachandran

Telephone: 703-264-1080 **FAX:** 703-264-1090

Email: nr@tyx.com

Name of Liaison Rep. (If different than Sponsor Chair):

Telephone: **FAX:**

Email:

10. The Type of ballot is: Individual Sponsor Ballot

Expected Date of Submission for Initial Sponsor Ballot: 2005-11-01

11. Fill in Projected Completion Date for Submittal to RevCom: 2006-11-01

Explanation for Revised PAR that Completion date is being extended past the original four-year life of the PAR:

12. Scope of Proposed Project:

The scope of the Standard Software Interface for Maintenance Information Collection and Analysis (SIMICA) is an implementation independent specification for a software interface to information systems containing data pertinent to the diagnosis and maintenance of complex systems consisting of hardware, software, or any combination thereof. These interfaces will support service definitions for creating application programming interfaces (API) for the access, exchange, and analysis of historical diagnostic and maintenance information. The standard will use the information models of IEEE Std 1232-2002 - Artificial Intelligence Exchange and Service Tie to All Test Environments (AI-ESTATE) as a foundation.

13. Purpose of Proposed Project:

The purpose of the IEEE P1636 Standard Software Interface for Maintenance Information Collection and Analysis (SIMICA) is to specify a software interface for access, exchange, and analysis of product diagnostic and maintenance information. This will address the pervasive need of organizations to assess the effectiveness of diagnostics for complex systems throughout the product lifecycle. The use of formal information models will facilitate exchanging historical maintenance information between information systems and analysis tools. The models will facilitate creating open system software architectures for maturing system diagnostics.

14. Intellectual Property:

Sponsor has reviewed the IEEE patent policy with the working group? Yes

Sponsor is aware of copyrights relevant to this project? No

Sponsor is aware of trademarks relevant to this project? No

Sponsor is aware of possible registration of objects or numbers due to this project? No

15. Are you aware of other standards or projects with a similar scope? No

Similar Scope Project Information:

16. Is there potential for this standard (in part or in whole) to be submitted to an international organization for review/adoption?: Do not know

If yes, please answer the following questions:

Which International Organization/Committee?

International Contact Information?

17. Will this project focus on Health, Safety or Environmental Issues? No

18. Additional Explanatory Notes: (Item Number and Explanation)

IEEE Std 1232-2002 (AI-ESTATE) is a standard for the exchange of diagnostic design information and a specification for software services (i.e., a software interface) provided by diagnostic reasoners. The AI-ESTATE standard was developed with a strong systems orientation and is implementation and technology independent. The Diagnostic and Maintenance Control (DMC) subcommittee of IEEE SCC20 intends to apply the same approach and philosophical foundation (i.e., emphasis on formal modeling to support technology independence) to P1636 (SIMICA) but focused on diagnostic maturation. Consequently, we will utilize and expand information elements from AI-ESTATE, emphasizing a historical perspective rather than a design and implementation perspective. By emphasizing historical data, the standard will support tools and processes for improving the overall diagnostics of a system throughout the lifecycle.