

P1849

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Type of Project: New IEEE Standard

PAR Request Date: 11-Feb-2015

PAR Approval Date: 26-Mar-2015

PAR Expiration Date: 31-Dec-2019

Status: PAR for a New IEEE Standard

1.1 Project Number: P1849

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for XES - eXtensible Event Stream - For Achieving Interoperability in Event Logs and Event Streams

3.1 Working Group: eXtensible Event Stream Working Group (CIS/SC/XES WG)

Contact Information for Working Group Chair

Name: Wil van der Aalst

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Computational Intelligence Society/Standards Committee (CIS/SC)

Contact Information for Sponsor Chair

Name: Bruno DiStefano

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2015

4.3 Projected Completion Date for Submittal to RevCom: 12/2016

5.1 Approximate number of people expected to be actively involved in the development of this project: 25

5.2 Scope: The standard for eXtensible Event Stream (XES) defines a grammar for a tag-based language that provides designers of information systems with a unified and extensible methodology for capturing systems' behaviors by means of event logs and event streams. This standard includes a "XML Schema" describing the structure of an XES event log/stream and a "XML Schema" describing the structure of an extension of such a log/stream. The standard includes a basic collection of "XES extension" prototypes that provide standard semantics to specific attributes as recorded in the event log/stream.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: XES (eXtensible Event Stream) is a new language exploiting the benefits offered by eXtensible Markup Language (XML) specifications and related tools to capture, copy, and analyze event logs/streams as recorded by existing information systems.

5.5 Need for the Project: Currently, there is no standardized way to export an event log or event stream from an information system. As a result, when trying to analyze a running information system, event log/stream data needs to be exported in some ad-hoc manner. Furthermore, it is often not clear which data needs to be exported for the analysis at hand. The proposed standard is meant to address both issues and to result in a more powerful analysis of event log/stream data.

5.6 Stakeholders for the Standard: Engineers and scientists developing analysis techniques based on event logs and event streams for information systems, and the business users wanting to use these techniques.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): N/A