XES Standard

Felix Mannhardt, Eric Verbeek
Standardization Process

1. Find Sponsor: July 13\textsuperscript{th}, 2014
   – Webinar on XES: June 20\textsuperscript{th}, 2014
Standardization Process

1. Find Sponsor: July 13\textsuperscript{th}, 2014 ✓

2. Initiating the Project
   - Sponsor submits PAR: February 11\textsuperscript{th}, 2015
   - IEEE SA accepts PAR: March 26\textsuperscript{th}, 2015
Active Project

[Image of the project page]

**P1849 – Standard for XES - eXtensible Event Stream - For Achieving Interoperability in Event Logs and Event Streams**

- **Working Group:** IEEE P1849 - eXtensible Event Stream Working Group
- **Sponsor:** G10 - Standards Committee

**Get Involved In The Development Of This Standard**

- Contact the IEEE-SA Liaison: Michael Kostecke

**Related Materials**

- Approved RA

**Standards Help**

IEEE-SA Standards Development Services are provided to expedite the approval for RA. Click here to learn more.

**Dates**

- **July 13, 2014**
- **March 26, 2015**

**URL**

https://standards.ieee.org/develop/project/1849.html
Project Scope

• Defines a grammar for event logs and event streams
• Includes two XML Schema’s
  – XES event log/stream
  – Extension of such a log/stream
• Includes basic extensions
Standardization Process

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Standardization Process

1. Find Sponsor: July 13th, 2014 ✓
2. Initiating the Project ✓
3. Working Group Operations
   – Form Working Group: August 22nd, 2015
Working Group

Wil van der Aalst
Christian Günther
Eric Verbeek

Michael zur Muehlen
Zbigniew Paszkiewicz
Hajo Reijers
Alexander Rinke
Anne Rozinat
Pnina Soffer
Minseok Song
Keith Swenson
Walter Vanherle
Lijie Wen
Moe Wynn
Standardization Process

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2. Initiating the Project ✓

3. Working Group Operations
   - Form Working Group: August 22\textsuperscript{nd}, 2015
1. Find Sponsor: July 13th, 2014 ✓
2. Initiating the Project ✓
3. Working Group Operations
   - Form Working Group: August 22nd, 2015 ✓
   - Policies & Procedures: In progress
Policies & Procedures

• Formal document
  – Submitted, waiting for approval from sponsor
• Chair, Vice Chair, Secretary, no Treasurer
  – Wil van der Aalst, Christian Günther, Eric Verbeek
• Chair appoints other officers
• Membership is open
• Two-thirds majority
Standardization Process

1. Find Sponsor: July 13\textsuperscript{th}, 2014 ✓

2. Initiating the Project ✓

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   - Form Working Group: August 22\textsuperscript{nd}, 2015 ✓
   - Policies & Procedures: In progress
Standardization Process

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3. Working Group Operations ✗
4. Draft Development
   – In progress, Revision 7

Metadata Structure

Stream events

Event

Trace

Log

Attribute

Extension

Trace classifier

<declares>

0..n

0..n

0..n

0..n

0..n

0..n

0..n

<defines>

1..n

<contains>

0..n

<contains>

0..n

<contains>

0..n

<contains>

0..n

<contains>

0..n

<contains>

0..n

<contains>

0..n

0..n

<defines>

0..n

<orders>

list

Value

URI

Key

prefix

name

ID

xs:double

xs:boolean

xs:long

xs:dateTime

xs:string
XML Serialization
Lifecycle Extension

BPAF transactional model
Planning

- September 2015
- October 2015
- November 2015
- December 2015
- ...
- December 2016

- 1st comment round
- 2nd comment round
- Approval round
- First draft Proposal
- ...
- Accepted Proposal
Standardization Process

1. Find Sponsor: July 13th, 2014 ✓
2. Initiating the Project ✓
3. Working Group Operations ✗
4. Draft Development
   – In progress, Revision 7
Standardization Process

1. Find Sponsor: July 13th, 2014 ✓
2. Initiating the Project ✓
3. Working Group Operations ☑
4. Draft Development ☑
5. Sponsor Balloting
   – Expected December 2015
6. Final Approval & Publication
7. Maintaining the Standard
XES Tools

- AProMore
- Celonis
- Disco
- Lean Document Prod.
- ProM
- minit
- QPR
- RapidProM
- Rialto PI
- YAWL
- Any more?
XES Extensions

- Concept
- Lifecycle
- Organizational
- Time
- Semantic
- ID
- Cost
- Alignment
- Any more?

- Standard
- Moe Wynn
- Felix Mannhardt
- Any more?
XES Usage

Event Logs
- 3TU.Datacentrum
- BPI Challenge logs
- Any more?

Advanced Tools
- Dotted Chart
- Inductive Miner
- Data Aware Miner
- Data Aware Replayer
- Any more?