Computer/Simulation Interoperability (C/SI) Sponsor Committee Progress Report

Simulation Interoperability Standards Organization (SISO) Standards Activity Committee (SAC)

Marcy Stutzman
C/SI SISO SAC Sponsor Committee
http://www.computer.org/web/standards/simulation-interoperability
https://www.sisostds/org

3 February 2016
C/SI Sponsor Committee

- C/SI is the Standards Activity Committee (SAC) of the Simulation Interoperability Standards Organization (SISO)
  - SAC membership – 12
  - SISO membership – 321 members from 21 countries

- C/SI sponsors an existing portfolio of standards
  - IEEE 1278 series – Distributed Interactive Simulation (DIS)
  - IEEE 1516 series – High Level Architecture (HLA)
  - IEEE 1730 series – Distributed Simulation Engineering and Execution Process (DSEEP)
C/SI Policies & Procedures

- Accepted by IEEE Standards Association Standards Board
  - 5 December 2015
    Computer/Simulation Interoperability (C/SI)
    Simulation Interoperability Standards Organization (SISO)
    Standards Activity Committee (SAC)
    Policies and Procedures for Standards Development

- Policies & Procedures for C/SI Working Groups to be worked in 2016
C/SI Activity Summary

- C/SI HLA Working Group
  - SISO HLA Product Development Group
- # of PARs in process YTD: 3
- # of PARs approved YTD: 0
- # of Stds sent to ballot YTD: 0
- # of Stds approved for publication YTD: 1
# C/SI Sponsored Standards

<table>
<thead>
<tr>
<th>#</th>
<th>Standard</th>
<th>Title</th>
<th>Expiration*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1278.1</td>
<td>IEEE Standard for Distributed Interactive Simulation--Application Protocols</td>
<td>12/31/2022</td>
</tr>
<tr>
<td>2</td>
<td>1278.2</td>
<td>IEEE Standard for Distributed Interactive Simulation (DIS) -- Communication Services and Profiles</td>
<td>12/31/2025</td>
</tr>
<tr>
<td>3</td>
<td>1278.3</td>
<td>IEEE Recommended Practice for Distributed Interactive Simulation - Exercise Management and Feedback</td>
<td>6/17/2020</td>
</tr>
<tr>
<td>4</td>
<td>1278.4</td>
<td>IEEE Recommended Practice for Distributed Interactive Simulation -- Verification, Validation, and Accreditation</td>
<td>6/17/2020</td>
</tr>
<tr>
<td>8</td>
<td>1516.4</td>
<td>IEEE Recommended Practice for Verification, Validation, and Accreditation of a Federation - an Overlay to the High Level Architecture Federation Development and Execution Process</td>
<td>12/31/2018</td>
</tr>
<tr>
<td>9</td>
<td>1730</td>
<td>IEEE Recommended Practice for Distributed Simulation Engineering and Execution Process (DSEEP)</td>
<td>9/30/2020</td>
</tr>
<tr>
<td>10</td>
<td>1730.1</td>
<td>IEEE Recommended Practice for Distributed Simulation Engineering and Execution Process Multi-Architecture Overlay (DMAO)</td>
<td>12/31/2023</td>
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</tbody>
</table>

*All active IEEE standards are subject to periodic review for revision within ten years of IEEE-SA Standards Board approval or transfer to inactive status.
PARs for Revision of Existing IEEE Standards

- IEEE SASB New Standards Committee currently processing PARs for revision of:
  - IEEE Std 1516.2™-2010, IEEE Standard for Modeling and Simulation High Level Architecture - Object Model Template
SISO Modeling and Simulation Seminar at ITEC 2016
16 May 2016

Seminar encompasses a broad range of modelling and simulation issues, applications, and communities that address interoperability issues and proposed solutions

http://www.itec.co.uk/
http://www.sisostds.org/
Announcing

2016 SIW
Simulation Innovation Workshop

Simulations Drive Innovation
Standards Drive Interoperability

Florida Hotel and Conference Center
Orlando, Florida

11-16 Sep 2016

http://www.sisostds.org/
BACK UP SLIDES
Additional Highlights

- SISO is an international Standards Development Organization focused on developing standards, guidance, and reference products for simulation interoperability
  - http://www.sisostds.org
- SISO has a Technical Cooperation Agreement with the NATO Modelling and Simulation Group
- SISO-sponsored IEEE Standards have been processed:
  - as NATO Standardization Agreements
  - for use by the U.S. Department of Defense in the Defense Standardization Program
  - for inclusion in the Defense Information Technology Standards Registry managed by U.S. Defense Information Systems Agency
- Individual members apply SISO-sponsored IEEE Standards in their work; develop and market implementation products; offer tutorials; and report on usage experiences at Simulation Innovation Workshops (SIWs)
Additional Highlights

- Working Groups conduct face-to-face meeting at SIWs
- Working Groups conduct virtual meetings/voting throughout the year using various Information Technology capabilities
  - SISO Discussion Forums
  - Teleconferencing & Webconferencing
- Social media sites promote SISO activities and products
  - Wikipedia: en.wikipedia.org/wiki/
  - LinkedIn: www.linkedin.com/
  - Facebook: www.facebook.com/
  - Twitter: @SISOSIW
- Defense industry-related news reports/press releases on use of SISO-sponsored IEEE Standards
- Various Modeling and Simulation-related conferences include papers addressing use of SISO-sponsored IEEE Standards
In 2014 IEEE granted Simulation Interoperability Standards Organization (SISO) (i.e., all SISO employees and members) **royalty-free permission to create Tutorials for SISO's Simulation Innovation Workshops** based on active* IEEE Standards for which SISO is the IEEE Sponsor, subject to the following conditions:

- SISO understands and agrees that it shall not change the content of the IEEE Standards contained in the Tutorials;
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*Active IEEE Standards are standards that have been approved by the IEEE Standards Association Standards Board and that have not been superseded or withdrawn.
SISO University

- SISO University is a training program for M&S practitioners offering multiple courses for SISO members, including:
  - Distributed Interactive Simulation (DIS)
  - High Level Architecture (HLA)
  - Distributed Simulation Engineering and Execution Process (DSEEP)

https://www.sisostds.org/Workshops/SISOUniversity.aspx
## SISO Standards Products

<table>
<thead>
<tr>
<th>Standard</th>
<th>Title</th>
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<tbody>
<tr>
<td>SISO-STD-002-2006</td>
<td>Standard for Link16 Simulations</td>
<td>10 Jul 2006</td>
</tr>
<tr>
<td>SISO-STD-008-2010</td>
<td>Standard for Core Manufacturing Simulation Data -UML Model</td>
<td>20 Sep 2010</td>
</tr>
<tr>
<td>SISO-STD-011-2014</td>
<td>Standard for Coalition Battle Management Language Phase 1, Version 1.0</td>
<td>14 Apr 2014</td>
</tr>
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* All active SISO standards must undergo a revision process at least every 10 years and be approved within 10 years of the publication date.