

SEDRIS Organization Report
to
ISO/IEC JTC 1/SC 24 and WG 8
SC 24 and WG 8 Plenary Meetings
Takamatsu, Japan
26 - 30 August 2019

During the past year, SEDRIS Organization has continued its contributions to both new and on-going work of SC 24 and its working groups. This report is a summary of key parts of those contributions and SEDRIS Organization's efforts.

SEDRIS Organization continued its support of the work conducted in SC 24's *Systems Integration Visualization* (SIV) Study Group, and specifically the use of SC 24 standards in Smart City and related applications. SC 24 standards will play a key role in supporting JTC 1 initiatives in Big Data, Sensors, and Smart Cities. SEDRIS Organization has been contributing to a new document (*Guidelines for Representation and Visualization of Smart Cities*) being developed by the SIV Study Group. SEDRIS Organization also supported the recent participation of SC 24 in, and presentation to, JTC 1/WG 11 (Smart Cities working group).

During recent months, the EDCS Registry Administrator (Mr. G. Wentz), EDCS Editor (Ms. M. Worley), and others in SEDRIS Organization (including Mr. W. Macchi and Mr. R. Moreland) have done significant work to update and restore the capability for downloading the Registry content, since this capability was disabled as a result of migration of registry's internal software to a new platform. When completed, the capability to download the register's content will be restored.

Through participation with Simulation Interoperability Standards Organization (SISO) efforts, SEDRIS Organization continued to make significant contributions to the development of standards in SISO's RIEDP PDG (Reuse and Interoperation of Environmental Data and Processes - Product Development Group), as well as continued support to the work of SISO's EDRS PSG (Environmental Data Representation Standards - Product Support Group) on environmental data standards. The RIEDP standardization products use the SEDRIS standards, and are highly relevant to the work of SC 24 and WG 8. The first RIEDP PDG product, the RIEDP Data Model Foundations, was recently published as the SISO Guidance Product SISO-GUIDE-007-2018. Work on the second product continues, with significant contributions, from organizations in both SEDRIS and simulation communities, in the areas of material, light, and sensor-related characteristics. Publication of this work is anticipated in 2020.

SEDRIS Organization has continued its involvement and contributions to the development and review of WG 9 documents and standards on Mixed and Augmented Reality (MAR). Despite the fact that some of the most recent WG 9 ballot items (CD or DIS) did not receive formal comments from the SEDRIS Organization, the work of WG 9 remains of great interest. It is noted that seeking the direct involvement of practitioners in industry, and ensuring the

standards focus on providing capabilities and tested solutions that will address practical and existing problems, will enhance and strengthen the work of WG 9.

The emerging work in Smart Cities and the on-going work in mixed and augmented reality are highly relevant to the existing capabilities and standards in networked modeling and simulation applications, in which live and virtual environments are combined and integrated. Experiences gained in the networked modeling and simulation domain, including the concepts and capabilities found in the suite of SEDRIS standards, are valuable assets to Smart City and MAR efforts, and will contribute to the underlying data models, architectures, and representation techniques.

The close cooperation of SEDRIS Organization and key geodesy experts at the US National Geospatial-Intelligence Agency (NGA) successfully continues on various projects and efforts of mutual interest.

After 20+ years of leading WG 8, Dr. Jack Cogman has recently announced that in 2020 he plans to step down from the role of Convenor, but has noted that he will continue his involvement in SC 24 and WG 8 activities. The standardization of the SEDRIS suite of standards would not have been possible without Jack's active leadership and participation. In addition to his role as Convenor of WG 8, Jack has also been instrumental in supporting and leading several SC 24 initiatives, including managing the SC 24 Business Plan and his recent support for the work of SIV Study Group in relation to Smart Cities. The SEDRIS Organization expresses heartfelt appreciation to Jack for his dedication and contributions to the advancement of WG 8 work, and is delighted that he will continue his participation in SC 24 and WG 8 work.

SEDRIS Organization looks forward to continued productive work with SC 24 and its working groups in developing, progressing, and promoting the SC 24 standards.

Respectfully submitted,

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SEDRIS Organization
28 August 2019