**ISO/IEC JTC 1/SC 24 N3953**

**ISO/IEC JTC 1/SC 24/WG 8 N0617**

**SC 24/WG 8 Convener’s Report**

**for the**

**WG 8 and SC 24 Plenary Meetings, Arlington VA, USA**

**7 -11 August 2017**

This report to the 2017 SC 24 Plenary summarizes the progress of SC 24/WG 8, working in co-operation with the SEDRIS Organization, has made during the year 2016-17.

WG 8 is responsible for standards relating to the representation and interchange of environmental data. The current versions of the WG 8 Standards are unchanged from last year and are as shown in the table below;

|  |  |
| --- | --- |
| **Standard** | **Current Status** |
| ISO/IEC 9973 Procedures for registration of items | Ed. 3 published July 2013.  |
| ISO/IEC 18023-1: SEDRIS DRM and API | Ed. 1 Amd.1 Published June 2012. NWIP Planned |
| ISO/IEC 18023-2: SEDRIS Abstract Transmittal | Ed. 1. Published July 2006.  |
| ISO/IEC 18023-3: SEDRIS Binary Encoding | Ed. 1 Amd.1. Published June 2012. NWIP Planned |
| ISO/IEC 18024-4: SEDRIS Language Binding to C | Ed. 1 Amd.1. Published June 2012. NWIP Planned |
| ISO/IEC 18025: Environmental Data Coding Specification (EDCS) | Ed. 2. Published February 2014.  |
| ISO/IEC 18041-4: EDCS Language Binding to C | Ed. 3 Published May 2016. |
| ISO/IEC 18026: Spatial Reference Model (SRM) | Ed. 2. Published July 2009. NWIP Planned |
| ISO/IEC 18042-4: SRM Language Binding to C | Ed. 1 Amd. 1. Published June 2011. NWIP planned |

During 2016-17, there has been no further development of the current standards. When circumstances allow, NWIPs will be raised for those standards (see table above) that need to be revised for compatibility with Ed 2 of the EDCS and the planned Ed 3 of the SRM.

The EDCS Registry Rapporteur Group needs to re-assess the submissions for 2007-Q4, 2008-Q1, 2008-Q3, 2009-Q1, 2009-Q3 and 2011-Q1 against EDCS Ed. 2. This work is currently on hold.

The migration of WG 8 documents to Livelink has been completed from document WG8 N0593 to the current latest WG8 document. In the long term, the previous 592 documents will need to be transferred and the WG8 document folder on Livelink made compatible with the WG 8 Document Register. In order to access the WG 8 document folder, members need to be on the ISO global directory and be assigned to WG 8.

WG 8 has responsibility for the SC 24 Register of Items. Thanks to the efforts of the SEDRIS Organization, the Open Skies Digital Data Exchange Format has now been added to the BIIF Profile Section. As a result of this work, it has been found that SC 24 has the ability, through its Secretariat, to change the internal structure of the Register of Items by itself, without having to make requests to ISO Central Office. This will enable further planned changes to the register to be implemented.

There has been involvement with two other important developments, both related to SEDRIS standards. One of these relates to the WG 9 projects on MAR (Mixed and Augmented Reality), which address the combined visualization of real and virtual objects. The MAR standards provide potential application of the SEDRIS standards to the data representation and spatial referencing of environmental data.

The other development of interest is the SISO project for the Reuse and Interoperation of Environmental Data and Processes (RIEDP), which is influenced by 18023 (DRM) and which includes the use of 18025 (EDCS) and 18026 (SRM). RIEDP specifies (a) the key stages of the database generation process in modeling and simulation applications, and (b) the standardized methods for sharing of such databases from those stages. During 2016-17, the RIEDP Data Model Foundations document has progressed from Version 1.1 to 1.2, incorporating results of the formal review comments. WG 8 members have participated in the development and review of RIEDP.

There have been no formal WG 8 meetings since the 2016 Plenary in Beijing. Editors of the SRM standard, however, continue to conduct internal teleconferences on their standard.

Respectfully submitted,

Jack Cogman,

Convenor ISO/IEC JTC 1/SC 24/WG 8: Environmental Data Representation

2017-07-20