**ISO/IEC JTC 1/SC 24/WG 8 N0649**

**SC 24/WG 8 Convener’s Report**

**for the**

**WG 8 and SC 24 Plenary Meetings,**

**Held as a series of Web Meetings**

**27 July - 18 August 2020**

The progress of SC 24/WG 8 during 2019-20, in co-operation with the SEDRIS Organization, is summarized in this report.

WG 8 is responsible for standards relating to the representation and interchange of environmental data. The WG 8 Standards published and in development are as shown in the table below;

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| --- | --- |
| **Standard** | **Current Status** |
| ISO/IEC 9973 Procedures for registration of items | Ed. 3 published July 2013. |
| ISO/IEC 18023-1: SEDRIS Functional Specification (DRM and API) | Ed. 1 Amd.1 Published June 2012. |
| ISO/IEC 18023-2: SEDRIS Abstract Transmittal Format | Ed. 1. Published July 2006. |
| ISO/IEC 18023-3: SEDRIS Transmittal Format Binary Encoding | Ed. 1 Amd.1. Published June 2012. |
| ISO/IEC 18024-4: SEDRIS Language Binding to C | Ed. 1 Amd.1. Published June 2012 |
| 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 18041-5: EDCS Language Binding to C++ | In development at CD level |
| ISO/IEC 18026: Spatial Reference Model (SRM) | Ed. 2. Published July 2009. |
| ISO/IEC 18042-4: SRM Language Binding to C | Ed. 1 Amd.1. Published June 2011. |

As agreed at the 2019 Plenary in Takamatsu, Japan, work has started on the following projects:

18041-5: EDCS Language Binding to C++

18042-5: SRM language Binding to C++

18024-5: SEDRIS Language Binding to C++

Of the three, 18041-5 EDCS to C++ has been approved and was registered in June 2020.

A possible new project about an XML encoding of SEDRIS transmittals has also been discussed, but since this is not a trivial task, further discussions will be required.

WG 8 still anticipates work on 18026 (SRM) to complete the revision to Edition 3.

WG 8 has been involved with another development, which leverages the use of SEDRIS standards. The SISO project for RIEDP (Reuse and Interoperation of Environmental Data and Processes) provides two products: the RIEDP Data Model Foundations, a SISO Guidance product, and the RIEDP Detailed Features Description, a SISO Standard. Product 1, the Data Model foundations, has been completed and was released as a SISO standard in 2018. Product 2, the Detailed Features Description, is in development. Both Products use and reference the SEDRIS standards; in particular the DRM (18023-1), the SRM (18026), and the EDCS (18025) standards.

Further information on the proposed XML encoding of SEDRIS transmittals, the status of the three C++ language bindings, and the SISO RIEDP Project will be given during the on-line WG 8 Working Session on 3 August 2020.

There have been no face-to-face WG 8 meetings since the 2019 Plenary in Takamatsu, Japan. Work has continued, however, via web meetings and e-mail.

As the current WG 8 Convenor has already announced his intention to stand down and his term of office expires at the end of 2020, a call will be made for a new Convenor.

Respectfully submitted,

Jack Cogman,

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

2020-07-23

Convenor’s Footnote:

Although I announced my intention to stand down as WG 8 Convenor in Takamatsu, I have stayed on until now to support the 2020 WG 8 Plenary meeting. I will continue to support WG 8 and SC 24, but only as a minor player.

I have enjoyed the 20-21 years I have spent as Convenor and thank you all for the support you have given me during that time. I am also particularly appreciative of the retirement gift presented to me at Takamatsu last year. Thank you. JCC