**ISO/IEC JTC 1/SC 24/WG 8 N 0654**

**10/11-Aug-2020**

Recommendations of ISO/IEC JTC 1 / SC 24/WG 8

to

SC 24 Online Plenary Meeting, 17/18 August 2020

Resulting from the WG 8 Online Plenary Meeting on 10/11 August 2020

Part 1: Progression of Work

# Programme of Work

ISO/IEC JTC1/SC 24/WG 8 approves the programme of work and document editors described in the table below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Short Title | Reference | WG | Editor | CD/CDAM/PDTR | DIS (FCD)/ FCDAM | FDIS/FDAM/DTR | IS/  AMD/TR |
| EDCS LB to C++ | ISO/IEC 18041-5 :202x | 8 | Lee,  Puk | 12/20 | 12/21 | - | 10/22 |

The dates shown indicate the start of the ballot for the appropriate document and for IS/AMD/TR, the anticipated date.

# Authorization of Progression to CD

ISO/IEC/JTC 1/SC 24/WG 8 requests SC 24 to authorize the following documents for progression to CD upon completion of the CD text and requests that the SC 24 Secretariat issue a CD ballot as the text becomes available:

Document Title

ISO/IEC 18041-5: EDCS language bindings – Part 5 C++

# Proposed New Work Items for ISO/IEC 18041 and 18042

ISO/IEC JTC 1/SC 24/WG 8 requests SC 24 to support New Work Items currently being prepared, along with WD text, for the following standards:

**Document Title**

ISO/IEC 18042-5: SRM language bindings – Part 5 C++

ISO/IEC 18024-5: SEDRIS Part 1 language bindings – Part 5 C++

# Proposed New Work Item for ISO/IEC 18026 (SRM)

Following support from potential users, ISO/IEC JTC 1/SC 24/WG 8 requests SC 24 to support a New Work Item being raised, along with CD text, for the continuation of work for the previous, but discontinued, 18026 Ed.3 project to include enhancements, such as:

* Comprehensive and improved treatment of geodesics
* Similarity transformation templates – additional and uniform set of methods to perform datum transformations.
* Revision of informative Annex I.6 to cover all cases of error metrics.
* Improvement of the accuracy domains in the Default profile (Clause 12).
* Comprehensive treatment of rotation and orientation concepts to include rotation of vectors and orientations of objects and coordinate reference frames, and development of the corresponding API functions.

**Document Title**

ISO/IEC 18026 Ed 3 Revision

# Support for Enhancements to Existing WG 8 Work

ISO/IEC JTC 1/SC 24/WG 8 requests support for the following proposals for new work within WG8:

Whereas:

Completed work on ISO/IEC 18025 (EDCS) and the planned revision of ISO/IEC 18026 (SRM) require modification to other SEDRIS standards, including the respective language bindings;

Therefore:

ISO/IEC JTC 1/SC 24/WG 8 requests that SC 24 support New Work Items, along with CD text, to incorporate the necessary enhancements in the following existing standards:

* ISO/IEC 18023-1 Ed. 2 SEDRIS Part 1 Revision
* ISO/IEC 18023-3 Ed. 2 SEDRIS Part 3 Revision
* ISO/IEC 18024-4 Ed. 2 SEDRIS language binding—C Revision
* ISO/IEC 18042-4 Ed. 2 SRM language binding—C Revision

# Support for New WG 8 Work

ISO/IEC JTC 1/SC 24/WG 8 plans to continue its cooperative work, in conjunction with the SEDRIS Organization, OKTAL-SE, Suwon University, SISO (Simulation Interoperability Standards Organization), and others on the possibility of new work in the following areas:

* Reuse and Interoperation of Environmental Data and Processes
* Representation of material roughness for sensor simulation (C. Nissoux, OKTAL-SE)
* Representation of a dynamic sea model (C. Nissoux, OKTAL-SE)
* Representation of procedurally generated geometry and terrain (C. Nissoux, OKTAL-SE)
* Representation of Wang tiling for texture data (C. Nissoux, OKTAL-SE)
* Representation of Patches of procedurally generated geo-typical data (C. Nissoux, OKTAL-SE)
* Handling of varied and detailed metadata information for generation and processing of environmental data (F. Mamaghani. SEDRIS, C. Nissoux, OKTAL-SE)
* Guidelines and Techniques for using X3D to portray SEDRIS data (M.W. Lee, R. Puk, WG 6)
* Development of an XML encoding for SEDRIS transmittals (M.W. Lee, Suwon University)

# Request ISO/IEC 18041-4:2016 to be corrected and made Publicly Available

ISO/IEC JTC 1/SC 24/WG 8 requests the SC 24 Committee Manager to verify with ISO the validity of the published version of ISO/IEC 18041-4:2016 that was provided to him, since the top line of the index page describes the document as “the draft DIS text….”. Similar issues may exist on other pages, headers, or body text.

ISO/IEC JTC 1/SC 24/WG 8 requests SC 24 to approve the corrected version of ISO/IEC 18041-4:2016 and to inform ISO/IEC that the corrected 18041-4:2016 may be made publicly available, since the older version is already freely available and the current version is freely available elsewhere.

# Request Clarification on the UN Sustainable Development Goals (SDGs) required for NWIPs

ISO/IEC JTC 1/SC 24/WG 8 requests SC 24 to seek further clarification of the UN specified Sustainable Development Goals that are required to be declared when submitting a New Work Item Proposal (NWIP), in particular:

* The level of justification expected for each SDG
* Whether it applies only to new and future NWIPs, noting that some of the NWIPs may be for subsidiary standards related to already published standards

# Promoting Joint Work with TC 211

Whereas:

Continued opportunity for joint work with ISO/TC 211 (Geographic information/Geomatics) exists.

Therefore:

ISO/IEC JTC 1/SC 24/WG 8 requests SC 24 to continue the authorization of the following individuals to act as subject matter experts:

Dr. Paul Berner

Mr. Craig Rollins

Mr. Kevin Trott

plus additional subject matter experts as may be deemed appropriate for a given task, to actively participate with ISO/TC 211 spatial experts in order to promote and facilitate joint work with ISO/TC 211.

# Continuation of the Cooperation with the SEDRIS Organization

Whereas:

a) cooperation during the last year between ISO/IEC JTC 1/SC 24 and the SEDRIS Organization has been productive and to the mutual benefit of both organizations;

b) there are additional SEDRIS-related standards projects in process that emanate from the SEDRIS Organization and National Bodies, and therefore additional future work is anticipated.

Therefore:

ISO/IEC JTC 1/SC 24/WG 8 requests that SC 24 endorse the continued successful cooperation with the SEDRIS Organization in the development of additional ISO/IEC work items based on SEDRIS-based standards.

# Continuation of Cooperation with the Open Geospatial Consortium (OGC)

Whereas:

ISO/IEC JTC 1/SC 24 and OGC have mutual interest in several specific projects, where each might apply base technologies developed by or in development within the other.

Therefore:

ISO/IEC JTC 1/SC 24/WG 8 requests that SC 24 endorse the continued cooperation with OGC.

# Continuation of Cooperation with the Simulation Interoperability Standards Organization (SISO)

Whereas:

ISO/IEC JTC 1/SC 24 and SISO have mutual interest in several specific projects, where each might apply base technologies developed by or in development within the other.

Therefore:

ISO/IEC JTC 1/SC 24/WG 8 requests that SC 24 endorse the continued cooperation with SISO.

# Cooperation with ISO TC 184/SC 4/JWG 16

Whereas:

1. ISO/TC 184/SC 4/JWG 16 and ISO/IEC JTC1/SC24/WG 8 have mutual areas of common interest; and
2. there is an open invitation to ISO/IEC JTC1/SC 24 for joint participation in the work of ISO/TC 184/SC 4/JWG 16.

Therefore:

ISO/IEC JTC 1/SC 24/WG 8 endorses the cooperation and participation in the work of ISO/TC 184/SC 4/JWG 16 and requests SC 24 to invite ISO/TC 184/SC 4/JWG 16 to hold future joint meetings with ISO/IEC JTC 1/SC 24. Furthermore, ISO/IEC JTC 1/SC 24/WG 8 requests the active and on-going exchange of relevant documents and asks that ISO/TC 184/SC 4/JWG 16 develop procedures for the active participation of SC 24 technical experts in their work.

# Proposed Convenor for WG 8

Whereas:

The current WG 8 Convenor, Jack Cogman, announced at the 2019 WG 8 Plenary that he will be standing down from the position,

Therefore:

ISO/IEC JTC 1/SC 24/WG 8 recommends that Farid Mamaghani be appointed as Acting Convenor, pending the identification of a person to accept the position for a 3-year period.

# Part 2: Liaison

# External Liaison Officers

ISO/IEC JTC1/SC 24/WG 8 recommends the appointment of the following external liaison officers:

|  |  |  |
| --- | --- | --- |
| **Representative** | **Liaison to** | **Topic** |
| Richard Puk | SEDRIS Organization | SEDRIS technology |
| Chris Body | ISO/TC 211/WG 6 | SEDRIS technology |
| Kevin Trott | OGC | SEDRIS technology |
| Rob Cox | Digital Geographic Information Working Group (DGIWG) | SEDRIS technology |
| Louis Hembree | International Hydrographic Organization (IHO) | SEDRIS technology |
| Craig Rollins  Paul Berner  Kevin Trott | International Astronomical Union/International Association of Geodesy (IAU/IAG) Working Group on Cartographic Coordinates and Rotational Elements of the Planets and Satellites | Spatial referencing |
| Tim Gifford  Paul Foley TBD | Simulation Interoperability Standards Organization (SISO) | SEDRIS technology |
| Jack Cogman | NATO Modelling and Simulation Group (NMSG) | SEDRIS technology |
| Craig Rollins  Paul Berner  Farid Mamaghani | ISO Geodetic Registry Network | Spatial referencing |

Part 3: Administration

# Appointment of Editors

ISO/IEC JTC1/SC 24/WG 8 recommends the following;

|  |  |  |
| --- | --- | --- |
| **Document No.** | **Document Title** | **Editor** |
| 18023-1 | SEDRIS Functional Specification | **Puk,** Mamaghani**,** Worley |
| 18023-2 | SEDRIS Transmittal Format | **Puk** |
| 18023-3 | SEDRIS Transmittal Format – Binary Encoding | **Puk** |
| 18024-4  18024-5 | SEDRIS Language Binding Part 4 : C  SEDRIS Language Binding Part 4 : C++ | **Puk**  Worley  **Lee**  Puk |
| 18025 | Environmental Data Coding Specification (EDCS) | **Cox,** Hembree,  Worley |
| 18026 | Spatial Reference Model (SRM) | **Berner,**  Trott |
| 18041-4  18041-5 | EDCS Language Bindings, Part 4: C  EDCS Language Bindings, Part 4: C++ | **Puk**  Worley  **Lee**  Puk |
| 18042-4  18042-5 | SRM Language Bindings, Part 4: C  SRM Language Bindings, Part 4: C++ | **Puk**  Worley  **Lee**  Puk |
| 9973 | Procedure for registration of items | **Puk,**  Mamaghani |

# Appointment of Rapporteurs for Sections of the SC 24 Register

ISO/IEC JTC 1/SC 24/WG 8 re-appoints Dr. Paul Berner to be the Rapporteur for the SRM.

ISO/IEC JTC 1/SC 24/WG 8 re-appoints Mr. Farid Mamaghani as the Rapporteur for the DRM.

ISO/IEC JTC 1/SC 24/WG 8 re-appoints Mr. Farid Mamaghani to be the Rapporteur for the EDCS.

# Future Meetings

ISO/IEC JTC1/SC 24/WG 8 informs SC 24 it has not planned any face-to-face meetings as a Working Group before next year’s SC 24 Plenary. However, communication within the Working Group will continue by means of e-mail, telephone and web-meetings.

|  |  |  |
| --- | --- | --- |
| Meeting | Date | Venue |
| WG 8 Working Session and Plenary | 2021 | Melbourne, FL, USA |
| WG 8 Working Session and Plenary | 2022 | Sydney, Australia |
| WG 8 Working Session and Plenary | 2023 | Europe |
| Editing meetings | As required | Web conference |

# Thanks to Organizers

ISO/IEC JTC1/SC 24/WG 8 wishes to thank the following people for organising the meeting;

* Bill Protzman, Farid Mamaghani and Jason Smith for their work in preparing the timetable that was initially for a face-to-face meeting in Melbourne, USA and was then changed to a series of on-line meetings, due to Covid-19 pandemic
* Dr. Charles Whitlock, BSI, for the smooth operation of the Secretariat.