**ISO/IEC JTC 1/SC 24 N 3954**

**ISO/IEC JTC 1/SC 24/WG 8 N 0618**

**10-Aug-2017**

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

SC 24 Plenary Meeting, Arlington VA, USA

11 August 2017

Resulting from the WG 8 Plenary Meeting on 10 August 2017

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/PDAM/PDTR | DIS (FCD)/ FPDAM | FDIS/FDAM/DTR | IS\*/  AMD/TR |
| No active projects |  |  |  |  |  |  |  |

The dates shown indicate the start of the ballot for the appropriate document

* + - Anticipated date of IS/Amd/TR publication

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

ISO/IEC JTC 1/SC 24/WG 8 requests SC 24 to approve a New Work Item being raised, along with CD/DIS text, for the following standard that will incorporate the work already developed for the previous, but discontinued, 18026 Ed.3 project:

**Document Title**

ISO/IEC 18026 Ed 3 Revision

# Proposed New Items

Whereas:

Revision work on ISO/IEC 18025 (EDCS) and ISO/IEC 18026 (SRM) requires modification to other SEDRIS standards, including the respective language bindings, when ISO/IEC 18026 (SRM) Ed 3 has been published.

Therefore:

ISO/IEC JTC 1/SC 24/WG 8 advises SC 24 that it intends to raise New Work Items, along with CD text to incorporate the necessary enhancements to the following 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 Revision
* ISO/IEC 18042-4 Ed. 2 SRM Language Binding 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, with OKTAL-SE, Chungbuk National University, the Enterprise Data Services (US DoD) program, 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 (RIEDP)
* Representation of material roughness for sensor simulation
* Representation of a dynamic sea model
* Representation of procedurally generated geometry and terrain
* Representation of Wang tiling for texture data
* Representation of Patches of procedurally generated geo-typical data
* Handling of varied and detailed metadata information for generation and processing of environmental data
* Representation of digital holographic data content for generation and display of holographic information
* Using X3D to portray SEDRIS data

# Support to complete SRM Edition 3

ISO/IEC JTC 1/SC 24/WG 8 recognizes and wishes to highlight the increasing use of ISO/IEC 18026 (Spatial Reference Model) in various existing and emerging applications and standards. Such applications and standards will greatly benefit from the planned improvements to 18026. The users of these application and standards are encouraged and asked to participate in the work of completing those enhancements. The enhancements (which are also identified in ISO/IEC JTC 1/SC 24 N 3084) include:

* 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.

# 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

Ms. Laura Moore   
Mr. Craig Rollins

Mr. Kevin Trott

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

# Inconsistent Information relating to Liaison Organizations

To conform to the revised definition of Liaison Categories A, B, C and D given in the ISO/IEC Directives, WG 8 requests the SC 24 Secretariat to clarify the liaison categories of the current SC 24 Liaisons are correct and inform the Liaison Organizations in cases where the liaison category has changed. In addition, verify that the information given for Liaison Organizations on the ISO SC 24 web page (<https://www.iso.org/committee/45252.html>) is correct

# 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 | TC 211 | 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  Roy Scrudder | 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 | SEDRIS Language Binding Part 4 : C | **Puk**  Worley |
| 18025 | Environmental Data Coding Specification (EDCS) | **Cox,** Hembree,  Worley |
| 18026 | Spatial Reference Model (SRM) | **Berner,**  Trott |
| 18041-4 | EDCS Language Bindings, Part 4: C | **Puk**  Worley |
| 18042-4 | SRM Language Bindings, Part 4: C | **Puk**  Worley |
| 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 | 2018 | Toulouse, France (subject to an invitation from AFNOR) |
| WG 8 Working Session and Plenary | 2019 | Asia or Australasia |
| WG 8 Working Session and Plenary | 2020 | North America |
| Editing meetings | As required | Web conference |

# Thanks to Organizers

ISO/IEC JTC1/SC 24/WG 8 wishes to thank the following people and institutions for their contribution to a smooth running, pleasurable, and efficient meeting:

1. ANSI for inviting ISO/IEC JTC 1/SC 24 to meet in Arlington VA, USA
2. Virginia Tech Research Center for providing very effective WiFi and reliable WebEx connectivity
3. Mr. Bill Protzman and members of ANSI INCITS/H3 for doing a great job as meeting organizers.
4. Support from DSC Corporation for the very enjoyable dinner cruise on Wednesday evening.
5. Dr. Charles Whitlock, BSI, for the smooth operation of the Secretariat.