**JTC 1/SC 24/WG8\_N0612**

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

**Working Group 8**

**32nd WG 8 Plenary Meeting**

**Minutes of Plenary and Other Meetings**

Beijing Institute of Technology, Beijing, China

22-26 August 2016

These minutes document the meetings of Working Group 8 that took place during the annual SC 24 meetings held at the Beijing Institute of Technology, Beijing on 22-26 August 2016

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Links to the Presentation in the WG 8 Document Register

RIEDP: Document **WG8\_N0614** in the [WG 8 Document Register](http://www.sedris.org/wg8home/document.htm)

* + - 1. Introduction

This document records the following meetings:

* WG 8 Presentation and Working Session, held on Tuesday 23 August
* WG 8 Plenary, held on Thursday 25 August

WG 8 members also attended the SC 24 Plenary meeting on Friday 26th August, following which the SC 24 Resolutions (SC24\_N3846) were issued. For information, the report on WG 8 that was sent to the Plenary is recorded in Section 4.

There was no EDCS Registry meeting, as there were no issues needing to be addressed.

Many members of WG 8 were unable to attend the meetings in Beijing, but some participated via the WebEx web-conferencing facility.

* + - 1. WG 8 Presentation and Working Session

**Tuesday 23 August 2016**

**13:00 – 15.30 Beijing**

**06:00 – 08:30 UK**

**01:00 – 03.30 USA (East Coast)**

**22:00 – 00:30 Monday/Tuesday USA (Pacific)**

**Chair: Jack Cogman**

**Introduction**

The participation in this meeting was very limited, due to the fact it was not possible for persons in the meeting room in Beijing to connect to WebEx and that the chair of the meeting was not in Beijing, but an on-line WebEx user. This was in spite of the fact that a test run the previous day had had some limited success in establishing a WebEx connection to the meeting room.

As a result, the only attendees at the meeting were those connected (remotely) to WebEx, as shown in [Appendix D](#AppendixD)

After it became apparent that it was not going to be possible to connect to the Beijing meeting room, it was decided to show the RIEDP presentation first. This was to avoid detaining Jean-Louis Gougeat for longer than necessary.

The revised Agenda is given in [Appendix A](#AppendixA).

Presentation: Update on RIEDP – Jean-Louis Gougeat (Sogitec)

RIEDP (Reuse and Interoperation of Environmental Data and Processes)

RIEDP is a SISO project, where SISO is the Simulation Interoperability Standards Organization that is a Cat. A Liaison Organization to SC 24.

RIEDP and SEDRIS are complementary, since SEDRIS defines the description, inter-relationship and location of environmental data, whereas RIEDP also defines the process by which this data is combined to generate an environmental database.

The presentation may be downloaded as Document **WG8N0614** from the [WG 8 Document Register](http://www.sedris.org/wg8home/document.htm).

Key Points of the Presentation

* Definition of M&S Interoperability and its dependence on Appropriate Standards (slide 9)
* Make use of existing Standards (slide 11)
* Overview of International Standards for environmental data (slide 14)
* Scope of RIEDP (slides 14 and 15)
* RIEDP Reference Abstract Data Model (compare with DRM) (slide 20)
* Comparison of RIEDP and SEDRIS (slide 23)

 Working Session

As it was still not possible for the people in the meeting room at the Beijing Institute of Technology to connect to WebEx, the Working Session was only able to proceed with the on-line users, as shown in [Appendix D](#AppendixD).

Welcome and Introduction

The Convenor, Jack Cogman, apologized for the minimal attendance at the meeting due to technical problems, but agreed that the Working Session still needed to be held.

 Pending Projects

All the projects listed in the agenda, [Appendix A,](#AppendixA) are awaiting NWIPs to be raised for them. When suitable funding is available, NWIPs will be balloted, which, if approved, will start the clock to complete those programmes.

**Note:** 18041-4 Ed. 3 (EDCS LB) was published at the end of May 2016, although it is shown in the standard as June 2016.

In the case of 18026 (SRM), the project had reached the DIS stage by the time it exceeded its timescale in 2014.

 Work Schedule

No discussion was required about the work programme, as currently there are no active projects. The schedule was finalized later in the meeting (see 2.2.9).

EDCS Registry

The items submitted to the Registry and approved by the EDCS Rapporteur Group need to be checked against 18025 Edition 2, which has been published since they were submitted. It is estimated that this will require 6 weeks work for 3.5 people and will take 3 months of elapsed time.

Related Work of SISO RIEDP

The SISO project RIEDP (Reuse and Interoperation of Environmental Data and Processes), for which a presentation was given at the start of the meeting (see [section 2.1)](#Section21), is closely related to the aims and objectives of the SEDRIS standards. WG 8 members, in particular, Farid Mamaghani, Rob Cox, Roy Scrudder and Jack Cogman, have therefore supported the development of RIEDP.

Related Work of WG 9 MAR

SC 24/WG 9 is developing a MAR (Mixed and Augmented Reality) Reference Model in association with SC 29/WG 11. Farid Mamaghani and Dick Puk are involved in this work, as it is relevant not only to the work of WG 6, but also has the ability to benefit from many of the features of SEDRIS, such as;

* Experience in mixing live and virtual data
* Proven methods of co-ordinate transformation
* The ability of EDCS to represent all the properties of each object

The MAR Reference Model document has completed the CD ballot and is being prepared for DIS ballot.

Migration of WG 8 Document Register to LiveLink

In compliance with the ISO TMB (Technical Management Board) requirement that all Working Groups need to publish their documents on LiveLink, a start has been made to import WG 8 documents into the LiveLink WG 8 Folder from the WG 8 Document Register. However, very little progress has been made on this activity during the year.

At present, a comprehensive WG 8 web area exists (as a dedicated part of the SEDRIS web site), which includes the WG 8 document register. This WG 8 web area was established many years prior to LiveLink. It needs to be ascertained whether all the current pages and facilities at that web site, such as lists of meetings and new items (What’s New?), can be accommodated on LiveLink.

An action to find out from LiveLink what facilities are available was raised last year as Action 31-03 and is still open.

Status of Action Items

The current status of open actions was reported as follows;

**Action 29-01**

Requirement: Contact the ISO Geodetic Registry Network to determine the requirements for liaison membership.

Current Status: In progress. The ISO Geodetic Registry Network is managed by TC 211 and provides open source software for the management and publication of geodetic codes and parameters, such as coordinate systems and datums. It is compliant with ISO 19135, the TC 211 standard for item registration.

Information on the ISO Geodetic Register has been sent to the SEDRIS SRM Team and their reply is that it is relevant to the SRM and that it would make sense to establish a liaison. The SRM team will review the specific items about which information should be requested or where liaison work needs to be done.

**Action 30-02**

Requirement:

Inform the SC 24 Secretariat of the changes required to the ISO list of Maintenance Agencies and Registration Authorities (MA/RA).

Current Status:

Action closed. As a result of contact with Ms. Blandine Garcia and Ms. Maho Takahashi at ISO, and after numerous attempts and coordination, all changes to the MA/RA page were finally completed the previous day (22 August).

**Action 31-01**

Requirement:

Update the SC 24 registry access page to correct discrepancies and to add links

Current Status:

In progress. Ms. Blandine Garcia has informed us that the SC 24 Secretary should be able to update the registry page himself. This has not yet been confirmed, however. Blandine will also contact Jose Alcorta, who first set up the registry, to inform him of the requested amendment.

**Action 31-02**

Requirement:

Transfer all documents in the WG 8 Document Register to the WG 8 folder in ISO LiveLink and ensure the two registers are synchronized.

Current Status:

In progress.

**Action 31-03**

Requirement:

Investigate whether LiveLink has the capabilities to accommodate other web pages of the WG 8 web site, such as lists of meetings, “What’s New” page etc.

Current Status:

No action to date.

Review of the WG 8 Work Programme

EDCS LB (18041-1) was published on 27 May 2016 and so completes that project. New work item proposals (NWIPs) for the four planned projects are pending the availability of funding.

The updated WG 8 Work Programme is shown in [Appendix E](#AppendixE).

Draft Recommendations for the WG 8 Plenary

The only changes to the 2015 Recommendations suggested during the Working Session were:

1. Support for New Work (2015 Recommendation 5) should give priority to the RIEDP project (see [section 2.1](#Section21))
2. Extension of Classes in the SC 24 Registry (Rec. 10) needs to be updated to correct the current situation, where only a subset of the registered classes have links to their respective sections.

It was agreed that any other changes would be discussed at the WG 8 Plenary, for which a larger attendance was expected.

**The Working Session finished at 15:15 (Beijing)**.

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* + - 1. WG 8 Plenary

**Thursday 25 August 2016**

**08:30 – 10:30 Beijing**

**01:30 – 03:30 UK**

**20:30 – 22:30 Wednesday USA (East Coast)**

**17:30 – 19:30 Wednesday USA (Pacific)**

**Chair: Jack Cogman**

Attendees joined the meeting, either face-to-face at the meeting room in Beijing or via WebEx, as shown in [Appendix D](#AppendixD).

The WG 8 Plenary Agenda is given in [Appendix B](#AppendixB).

Welcome

The Convenor, Jack Cogman, welcomed people to the meeting.

Roll Call and Introductions

Each person attending the meeting introduced herself/himself.

Minutes of the 31st WG 8 plenary meeting held in London, UK

There were no comments, so the minutes were accepted.

 Convenor’s Report and Summary of RIEDP Presentation

Convenor’s Report

Jack Cogman gave a short presentation to summarize the Convenor’s Report. This report was issued prior to the meeting as document **WG8 N0610** (SC24 N3801) and may be downloaded from the [WG 8 Document Register](http://www.sedris.org/wg8home/document.htm).

The presentation highlights points that were discussed further, later in the meeting.

Summary of RIEDP Presentation

RIEDP is a SISO project for the Reuse and Interoperation of Environmental Data and Processes. A presentation was given by Jean-Louis Gougeat from Sogitec at the Working Session on Tuesday, which described the status of RIEDP and its relevance to SEDRIS. This was attended by only four persons, due to problems with the network connection in the Beijing meeting room, so the opportunity was taken to show a summary of it to the larger attendance at this meeting.

The presentation may be downloaded as Document **WG8N0614** from the [WG 8 Document Register](http://www.sedris.org/wg8home/document.htm). For further details and relevant points about RIEDP, see [section 2.1](#Section21).

 National Body Reports

National body reports have been issued as the following SC 24 documents:

N3810 – Australia

N3822 – China

N3807 – Japan

N3804 – Korea

N3817 – UK

N3816 – USA

These documents may be obtained from the [SC 24 N-Documents List](http://isotc.iso.org/livelink/livelink?func=ll&objid=8916524&objaction=ndocslist) on LiveLink.

Verbal reports were also given by Peter Ryan for Australia and Martin Smith for the UK.

Liaison Reports

DGIWG

There was no liaison report from DGIWG, the Defence Geospatial Information Working Group.

SEDRIS

The SEDRIS liaison report has been issued as document **WG8N0613**, which may be downloaded from the [WG 8 Document Register](http://www.sedris.org/wg8home/document.htm) and as document **SC24 N3805**, which may be downloaded from the [SC 24 N-Documents List](http://isotc.iso.org/livelink/livelink?func=ll&objid=8916524&objaction=ndocslist).

TC 211

The liaison report from TC 211 has been issued as **SC24 N3839**, which may be downloaded from the [SC 24 N-Documents List](http://isotc.iso.org/livelink/livelink?func=ll&objid=8916524&objaction=ndocslist).

SISO

The SISO liaison report has been issued as document **WG8N0615**, which may be downloaded from the [WG 8 Document Register](http://www.sedris.org/wg8home/document.htm) and as document **SC24 N3806**, which may be downloaded from the [SC 24 N-Documents List](http://isotc.iso.org/livelink/livelink?func=ll&objid=8916524&objaction=ndocslist).

Other

There were no other Liaison Reports.

Editors Reports

Since the publication of 18041-4 (EDCS LB) in May/June, there are currently no active WG 8 projects, hence there were no editors reports.

Report from the Registry Rapporteurs

EDCS Registry

The Rapporteur Group has 6 submissions of requested changes that have been assessed and approved, but are waiting to be balloted. Prior to a ballot, however, it is necessary for the submitted items to be checked for compatibility and consistency with EDCS Ed 2 and EDCS LB Ed. 3. The proposed changes also need to be checked with the submitters.

This activity is on hold, pending the availability of funding.

SRM Registry

No items have been submitted to date.

SEDRIS DRM Registry

No items have been submitted to date.

Appointment of Registry Rapporteurs

The existing Registry Rapporteurs were re-appointed, with no objections, as shown below:

EDCS: Farid Mamaghani

SRM: Paul Berner

DRM: Youngsoo Kwon (subject to agreement)

The current Rapporteur for the DRM Registry, Youngsoo Kwon, could not be consulted prior to the meeting, so Prof. Ha-Jine Kimn agreed to ask him whether he can continue as Rapporteur.

**New Action (32-01): Prof. Ha-Jine Kimn to ask Youngsoo Kwon to continue as DRM Rapporteur**.

**Post Meeting Note**: Youngsoo Kwon has told Prof. Ha-Jine Kimn that his current job with 3D Printing is demanding and does not allow him to continue as DRM Rapporteur.

At the meeting, Farid Mamaghani offered his name to be put forward as DRM Rapporteur in the event that Youngsoo was no longer able to continue. This is now accepted.

WG 8 Content of the SC 24 Business Plan for 2015-2016

Jack Cogman reported that the changes made to the draft copy of the SC 24 Business Plan with respect to WG 8 relate mainly to the current status of 18041-4 (EDCS LB), since all other WG 8 projects are on hold.

**Post Meeting note:** The usual format of the Business Plan has been replaced by a much-shortened Business Report/Plan and a Dashboard. This is a result of a decision taken at the JAG (JTC 1 Advisory Group) meeting in August and of which we were not aware at the meeting. The versions of these two documents that were submitted to JTC 1 have been published as **JTC1 N13141** and **JTC1 N13142**.

Work Schedule

The WG 8 schedule of work was updated to show the completion of 18041.4 and the status of WG 8 standards in development, as shown in [Appendix E](#AppendixE).

Recommendations to SC 24

Based on the 2015 Recommendations to SC 24, the following changes were made to produce the 2016 Recommendations to SC 24. These changes were the result of items identified in the Working Session and at this meeting.

1. Support for New Work (Recommendation 4) should give priority to the RIEDP project (see [section 2.1](#Section21))
2. The representation of digital holographic data, also identified in Recommendation 4, should be retained as it provides an application area for SEDRIS standards.
3. Recommendation 10, Extension of Classes in the SC 24 Registry, needs to be updated to correct the current situation, where only a subset of the registered classes have links to their respective sections.
4. A recommendation should be made for correction of inconsistencies found in the Liaison Organization descriptions given by ISO. The information on the LiveLink SC24 web pages, for example, is inconsistent with the definition of Liaison Organizations given in the ISO Directives.
5. Chris Body is confirmed as being willing to continue as TC 211 liaison
6. Future meetings need to identify those for the next 3 years. The 2017 Plenary will be in the Washington DC area, USA

**New Action (32-02): Request ISO to correct information given on the ISO web site that relates to Liaison Organizations.**

The final 2016 Recommendations to SC 24 may be accessed as document **WG8N0611** in the [WG 8 Document Register](http://www.sedris.org/wg8home/document.htm).

Action Items

Existing Open Items

Based on the review of the open action items in the WG 8 Working Session, the status was updated as follows;

**Action 29-01**

Requirement: Contact the ISO Geodetic Registry Network to determine the requirements for liaison membership.

Current Status: The ISO Geodetic Registry Network is managed by TC 211 and provides open source software for the management and publication of geodetic codes and parameters, such as coordinate systems and datums.

The SEDRIS SRM Team consider that the ISO Geodetic Registry Network is relevant to the SRM and that it would make sense to establish a liaison with the network. The SRM team will review the specific items about which information should be requested or where liaison work needs to be done.

Updated Status: Close this action and raise a new one for the SRM Team to review the information required and to establish some kind of liaison with Geodetic Registry Network.

**Action 30-02**

Requirement:

Inform the SC 24 Secretariat of the changes required to the ISO list of Maintenance Agencies and Registration Authorities (MA/RA).

Current Status:

Action item closed. As a result of contact with Ms. Blandine Garcia and Ms. Maho Takahashi at ISO, and after numerous attempts and coordination, all changes to the MA/RA page were finally completed the previous day (22 August).

**Action 31-01**

Requirement:

Update the SC 24 registry access page to correct discrepancies and to add links

Current Status:

In progress. Ms. Blandine Garcia has informed us that the SC 24 Secretary should be able to update the registry page himself. This has not yet been confirmed, however. Blandine will also contact Jose Alcorta, who first set up the registry, to inform him of the requested amendment.

**Action 31-02**

Requirement:

Transfer all documents in the WG 8 Document Register to the WG 8 folder in ISO LiveLink and ensure the two registers are synchronized.

Current Status:

In progress.

Updated Status: Continuing

**Action 31-03**

Requirement:

Investigate whether LiveLink has the capabilities to accommodate other web pages of the WG 8 web site, such as lists of meetings, “What’s New” page etc.

Current Status:

No action to date.

Updated Status: Continuing

New Action Items

**Action 32-01:** Prof. Ha-Jine Kimn toask Youngsoo Kwon if he is willing to continue as DRM Rapporteur.

**Action 32-02:** Request ISO to correct information about Liaison Organizations on the SC24 web site and to ensure that it reflects the revised definitions given in the current ISO Directives.

**Action 32-03:** The SRM team to review the specific items in the ISO Geodetic Registry Network about which information should be requested or where liaison work needs to be done.

The updated action list is shown in [Appendix F](#AppendixF).

Adjourn

**The Plenary meeting closed at 10:30 (Beijing)**.

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* + - 1. Report to SC 24 Plenary

**Friday 26 August 2016**

**09:30 – 13:30 Beijing**

02:30 – 06:30 UK

21:30 – 01:30 USA (East Coast)

18:30 – 22:30 Thursday USA (Pacific)

As the WG 8 Convenor was not able to attend the SC 24 plenary meeting in Beijing, the following report was sent as a summary of the current WG 8 status:

**WG 8 Report for the SC 24 Plenary 2016**

With the publication of 18041-4 (EDCS LB) in May of this year, there are no longer any active programmes within WG 8. The Working Group is still active in other areas, however; in particular:

* 18039 (MAR Reference Model) programme being developed jointly by WG 9 and SC 29/WG 11
* Re-use and Interoperability of Environmental Data and Process (RIEDP) being developed by SISO, an SC 24 Liaison Organization

The development of the MAR Reference Model is relevant to WG 8, since the SEDRIS standards provide a proven method for specifying environmental data that is applicable to both virtual and real worlds.

The RIEDP project is relevant to WG 8 in that it complements the applicability of SEDRIS standards. Whereas SEDRIS specifies the interchange of environmental data, RIEDP specifies both the interchange and generation of environmental data. The data interchange features of RIEDP are based on SEDRIS standards.

WG 8 is also active in correcting deficiencies in various ISO web sites. Some of these deficiencies affect SC 24 as well as WG 8 and include:

* Information given on the ISO MA/RA web site (Maintenance Agencies and Registration Authorities) for three WG 8 standards is inaccurate. This has been partially corrected
* The SC 24 Register is stored on LiveLink. At present, only a limited number of registration classes are active. It is required to increase this number by 3 or more classes
* The information given on the ISO site for SC 24 Liaisons is inconsistent with the information given on LiveLink. This is partly due to the change made by ISO to the definitions of the liaison categories, in particular Cat. A and Cat. C

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# Appendix A

# Working Session Agenda and Presentation

**Tuesday 23 August 2016**

**13:00 – 15.30 Beijing**

07:00 – 09:30: Europe (Central)

06:00 – 08:30: UK

01:00 – 03.30: USA (East)

22:00 – 00:30: Monday/Tuesday USA (Pacific)

**14:00 Beijing (Approx)**

**Presentation**

**Update on the SISO RIEDP project** - Jean-Louis Gougeat (Sogitec)

(RIEDP: Reuse and Interoperation of Environmental Data and Processes)

**14.45 Beijing (Approx)**

**Working Session**

1. Welcome and Introductions – Jack Cogman, WG 8 Convenor
2. Pending Work Projects:
	* 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 18026 Ed. 3 SRM Revision
	* ISO/IEC 18042-4 Ed. 2 SRM Language binding Revision
3. Work Schedule
4. EDCS Registry
5. Related Work of SISO RIEDP (Reuse and Interoperation of Environmental Data and Processes)
6. Related Work of WG9 MAR
7. Migration of WG 8 Document Register to LiveLink
8. Current status of Action Items
9. Review of the WG 8 work programme and revision, if necessary
10. Draft recommendations to be forwarded to the WG 8 Plenary meeting

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**WG 8 Plenary Agenda**

**Thursday 25 August 2016**

**08:30 – 10:30 Beijing**

01:30 – 03:30 UK

20:30 – 22:30 Wednesday USA (East Coast)

17:30 – 19:30 Wednesday USA (Pacific)

1. Welcome
2. Roll call and introductions
3. Corrections to, and approval of, the minutes of the 31st meeting held in London
4. Convenor's report
5. National body reports
6. Liaison reports
* DGIWG
* SEDRIS
* SISO
* Other
1. Editor reports
* ISO/IEC 9973
* EDCS and EDCS LB
* SRM and SRM LB
* SEDRIS Parts 1, 2, and 3
* SEDRIS LB
1. Reports from the registry rapporteurs
2. Appointment of registry rapporteurs
* EDCS
* SRM
* SEDRIS
1. Summary of WG 8 content in the draft SC 24 Business Plan for 2016-17
2. Work Schedule
3. Discussion and approval of recommendations to SC 24
4. Review action items
5. Adjourn

**Appendix C - Meeting Plan**

**ISO/IEC JTC 1 SC 24 2016 MEETING PLAN**

 **At the Beijing Institute of Technology, Beijing,**

**22 – 26 August 2016**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Monday** **22 August** | **Tuesday****23 August** | **Wednesday****24 August** | **Thursday****25 August** | **Friday****26 August** |
| Start at 09:00 | Start at 08:30 | Start 09:30 |
| **Room 5** | **Room 5**WG 6Working Session09:00 – 12:00 | **Room 5** | **Room 5** | **Room 5** |
| **Room 2** | **Room 2**WG 7Working Session09:00 – 12:00 | **Room 2**WG 7Plenary08:30 – 10:00 | **Room 2**WG 8Plenary08:30 – 10.30 | **Room 2** |
| **Room 1**WG 9Working Session09.00 - 12.00 | **Room 1** | **Room 1**WG 9Plenary10.30 – 12.30 | **Room 1** | **Room 1****SC 24 Plenary**09:30 – 13:30 |
| Lunch Break 12:00 – 13:00  | Lunch Break: 12:30 – 13:30 |  |
| **Room 5** | **Room 5**WG 6Working Session13:00 – 15.30 | **Room 5**WG 6 Plenary13:30 – 15:30 | **Room 5**Drafting CommitteePrepare for Plenary13:30 – 17:00 |  |
| **Room 2** | **Room 2**WG 8Working Session13:00 – 15.30 | **Room 2** | **Room 2** |
| **Room 1**WG 9Working Session13:00 – 18:00 | **Room 1** | **Room 1** | **Room 1** |
|  | **Room 5**HoD/C and LiaisonMeeting16:00 – 18:00 | **Social Event**16:30: Chinese Show19:00: Meal |  |

Morning Break: 10:00 – 10:30

Afternoon Break: 15:00 – 15:30

Meeting Plan Updated: 15 July 2016

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**Appendix D**

**List of Attendees**

|  |  |  |  |
| --- | --- | --- | --- |
| **NB/LO + Name** | **Affiliation** | **E-Mail** | **Attendance at Meetings** |
| **WG 8 Presentation and Working Session**  | **WG 8 Plenary** | **SC 24 Plenary** |
| **Face-to-Face/****WebEx** | **Face-to-Face\*/ WebEx** | **Face-to-Face\*/ WebEx** |
| **SC 24 Officers** |  |  |  |  |  |
| Myeong Won Lee | SC 24 Chair, Suwon University | mwlee@suwon.ac.kr |  | Face-to-Face | Face-to-Face |
| Charles Whitlock | SC 24 Secretary, BSI | charles.whitlock@bsigroup.com |  | Face-to-Face | Face-to-Face |
| **Australia** |  |  |  |  |  |
| Peter Ryan | DSTO Australia | peter.ryan@dsto.defence.gov.au |  | Face-to-Face | Face-to-Face |
| **China** |  |  |  |  |  |
| Cong Wang | CESI | wangcong@cesi.cn |  | Face-to-Face | Face-to-Face |
| Jianwei Qiu  |  | qiujw@sohu.com |  |  |  |
| Qi Xiaoqiang |  | xiaoqiang.qi@noitom.com |  |  |  |
| Wang Lu |  | luwang\_hcivr@sdu.edu.cn |  | Face-to-Face | Face-to-Face |
| Yongtian Wang |  | wyt@bit.edu.cn |  |  | Face-to-Face |
| **Korea** |  |  |  |  |  |
| Yun Koo Chung | WG 7 Convenor, ETRI | ykchung99@gmail.com |  |  | Face-to-Face |
| Choi, Jung-Ju |  | jungju@ajou.ac.kr |  |  |  |
| Gerard Kim | WG 9 Convenor | gjkim@korea.ac.kr |  |  | Face-to-Face |
| Hyeongseob Kim |  | seob85@korea.kr |  | Face-to-Face | Face-to-Face |
| Ha-Jine Kimn | Former SC 24 Chair | hjkimn@ajou.ac.kr |  | WebEx | WebEx |
| Jingyo Song | Suwon University | sjk123@korea.kr |  | Face-to-Face | Face-to-Face |
| Woontack Woo | KAIST University | wwoo@gist.ac.kr |  |  | Face-to-Face |
| Byounghyun Yoo | Korea Institute of Science and Technology (KIST) | yoo@byoo.net |  |  | Face-to-Face |
| Kwan-Hee Yoo | Chungbuk University | khyoo@chungbuk.ac.kr |  | Face-to-Face | Face-to-Face |
| **Japan** |  |  |  |  |  |
| Masaki Aono | Toyohashi University of Technology | aono@tut.jp |  | Face-to-Face | Face-to-Face |
| Takeshi Kurata | AIST | t.kurata@aist.go.jp |  |  | Face-to-Face |
| **UK** |  |  |  |  |  |
| Jack Cogman | WG 8 Convenor | jack.cogman@datasim.net | WebEx | WebEx | WebEx |
| Martin Smith | UK HoD | msmith1@talktalk.net |  |  | Face-to-Face |
| **US** |  |  |  |  |  |
| Larry Beck | Vencore | michael.l.beck@vencore.com |  |  | Face-to-Face |
| Laura Moore | Independent | lamwismar@gmail.com |  | Face-to-Face | Face-to-Face |
| Bill Protzman | DCS Corp., US HoD | wprotzman@dcscorp.com |  |  |  |
| Dick Puk | WG 6 Convenor | puk@igraphics.com |  | Face-to-Face | Face-to-Face |
| Jason Smith | Exelis, Inc. | jason.smith@exelisinc.com |  |  | Face-to-Face |
| **SEDRIS** |  |  |  |  |  |
| Tim Gifford | WG 8 Secretary | tgifford@cfl.rr.com | WebEx | WebEx |  |
| Farid Mamaghani | SEDRIS Organization | farid@sedris.org | WebEx | WebEx | WebEx |
| **SISO** |  |  |  |  |  |
| Jean-Louis Gougeat | Sogitec, SISO RIEDP Chair | jlgougeat@sogitec.fr | WebEx |  |  |

* The persons attending ‘Face-to-Face’ have been obtained from the attendance list given in SC24\_N3812 Meetings in Beijing 2016.

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**Appendix E**

**Status of WG 8 Standards Development**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Standard** | **NWIP** | **CD****PDAM****PDTR** | **DIS (FCD)****FPDAM** | **FDIS****FDAM****DTR** | **IS/TR** |
| **EDCS LB (18041-4) Edition 3** | **NWIP Approved 14 Jun 13** | **CD Approved 14 Jun 13** | **DIS****Approved** **15 Nov 15** | **FDIS** **-** | **IS** **Published 27 May 16** |
| **SRM (18026) Edition 3** | **NWIP to continue****Ed. 3, cancelled in 2014** |  |  |  |  |
| **SEDRIS Pt 1 (18023-1) Ed. 1 Amendment 2** | **NWIP when SRM Ed 3 published** |  |  |  |  |
| **SEDRIS Pt 3 (18023-3) Ed. 1 Amendment 2** | **NWIP when SRM Ed 3 published** |  |  |  |  |
| **SEDRIS LB (18024-4) Ed. 1 Amendment 2** | **NWIP when SRM Ed 3 published** |  |  |  |  |
| **SRM LB (184042-4) Ed. 1 Amendment 2** | **NWIP when SRM Ed 3 published** |  |  |  |  |

**NWIP:** New Work Item Proposal

**CD:** Committee Draft

**DIS:** Draft International Standard

**FCD:** Final Committee Draft

**FDIS:** Final Draft International Standard

**IS:** International Standard

**PDAM:** PreliminaryDraft Amendment

**FPDAM:** Final Preliminary Draft Amendment

**FDAM:** Final Draft Amendment

**PDTR:** Preliminary Draft Technical Report

**DTR:** Draft Technical Report

**TR:** Technical Report

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**Appendix F**

**Action Items**

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

**Meeting #32, Beijing, China. 25 Aug 2016**

**Shaded areas indicate action items that have been closed since last year**

| No. | Action Item | Assigned to | Due | Done | Comment |
| --- | --- | --- | --- | --- | --- |
| 29-01 | Contact the ISO Geodetic Registry Network to determine the requirements for liaison membership. | J. Cogman | Aug 2015 | Aug 2016 | 21-Aug-2015: Contact TC 211 to obtain further information and then decide whether to close.26-Aug-2015: Continuing. Send further information about the Registry Network to the SEDRIS SRM Team.25-Aug-2016: Action completed, as information obtained and considered relevant. New action (32-03) raised to establish further contact.Closed |
| 30-02 | Inform the SC 24 Secretariat of the changes required to the ISO list of Maintenance Agencies and Registration Authorities. | J. Cogman | 30-Nov-14 | Aug 2016 | 26-Aug-2015: Continuing. (Related changes raised as 31-01).25-Aug-2016: Action completed.Closed |
| 31-01 | Update the SC 24 registry access page to correct discrepancies and to add links | F. Mamaghani,J.Cogman | April 2016 |  | 25-Aug-2016: Contact has been made with Ms. Blandine Garcia and Ms. Maho Takahashi at ISO, but no changes have yet been implemented.In Progress. |
| 31-02 | Transfer all documents in the WG 8 Document Register to the WG 8 folder in ISO LiveLink and ensure the two registers are synchronized. | J.CogmanG. Wentz | March 2016 |  | 25-Aug-2016: Continuing.In Progress |
| 31-03 | Investigate whether LiveLink has the capabilities to accommodate other web pages of the WG 8 web site, such as lists of meetings, “What’s New” page etc. | J.Cogman | March 2016 |  | 25-Aug-2016: Continuing.In Progress |
| 32-01 | Ask Youngsoo Kwon if he is willing to continue as DRM Rapporteur | Ha-Jine Kimn | Dec 2016 | Oct 2016 | 31-Oct-2016: Prof. Kimn has asked Mr. Kwon and, because of his current job, can no longer continue as the DRM Rapporteur.Closed |
| 32-02 | Request ISO to correct information about Liaison Organizations on the SC24 web-site, to reflect the revised definitions given in the current ISO Directives. | F. Mamaghani,J.Cogman | April 2017 |  | 25-Aug-2016: Contact has already been made with Ms. Blandine Garcia and Ms. Maho Takahashi at ISO, but no changes have yet been implemented.In Progress. |
| 32-03 | The SRM team to review the specific items in the ISO Geodetic Registry Network about which information should be requested or where liaison work needs to be done. | P.BernerF.MamaghaniK.TrottW. Macchi | April 2017 |  |  |

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