ISO/IEC JTC 1/SC 24
Working Group 8
29th WG 8 Plenary

Sydney, Australia
26-30 August 2013

These minutes document the meetings of Working Group 8 that took place during the annual SC 24 meetings held at Standards Australia, Sydney in the week of 26-30 August 2013.

Sections 1-13: Minutes of the meetings

1. Introduction

This document records the following meetings:
- WG 8 Working Session, held on Tuesday 27 August
- WG 8 Plenary held on Wednesday 28 August

Other meetings that WG 8 members attended included the Plenary meetings for WG6, WG 7 and WG 9 and the SC 24 Plenary.

There was no meeting of the EDCS Registry, as there were no issues needing to be discussed.

The Convenor, Jack Cogman, offered his apologies for not being present in person at these meetings, due to limitations on travel for health reasons. However, he was able to participate via web-conferencing, as did several other members of WG 8. Dick Puk and Peter Ryan kindly agreed to chair the Plenary and Working Sessions respectively, to whom thanks are given.

2. WG 8 Working Session

0915 Tuesday 27 August 2013
Acting Chair: Peter Ryan

Those present: Peter Ryan (Australia)
                        Ha-Jine Kimn (SC 24 Chairman, Korea)
                        Sang-Won Ghyme (Korea)
                        David Ronnfeldt (Australia)
                        Paul Berner (US)   - via WebEx teleconference
                        Jack Cogman (UK)   - via WebEx teleconference
                        Louis Hembree (US)   - via WebEx teleconference
                        Farid Mamaghani (US)   - via webEx teleconference
Contact and other details of the attendees are given in [Appendix B](#).

Agenda

- Results of ballots held since the 2012 Plenary in Brussels

- Issues related to the EDCS revision

- Issues related to the SRM revision

- EDCS Registry work load

- Current status of Action Items

- Review of the WG 8 work programme and revision, if necessary

- Draft recommendations to be forwarded to the WG 8 Plenary meeting

- Presentation on Sketch-based Terrain Modeling – Sang-Won Ghyme

- Demonstration of revised interface to the EDCS Registry - Farid Mamaghani

2.1   Results of Ballots

The results of ballots over the last year were summarized as:

o   The DIS for 18025 (EDCS) Ed 2 was approved in September 2012

o   The DIS for 18026 (SRM) Ed 3 was approved in October 2012

o   The DIS for 9973 (Procedure for the registration of items) Ed 3 was approved in November 2012, and ISO/IEC 9973 Ed 3 was published in July 2013.

o   The NWIP and CD for 18041-4 (EDCS Language Binding) were approved in June 2013.

2.2   Issues Related to the EDCS Revision

The EDCS Ed 2 is now in FDIS ballot with a closing date of 2013-10-16, hence the main editorial work is complete. The FDIS was submitted to ITTF for ballot on 2013-

03-11, but there was a delay in the start of the ballot due to certain normative references being updated to later editions by ITTF.

The CD for the EDCS Language Binding has been approved, but work on the DIS is currently on hold, due to delays in funding.

2.3   Issues Related to the SRM Revision

Paul Berner reported that the comments received from the DIS ballot were quite extensive. It is estimated that there are still 3-4 months work remaining in order to progress the SRM to FDIS. Since work is currently on hold due to delays in funding, it will not be possible to meet the final FDIS submission date of 2013-10-20. A request for a schedule extension therefore needs to be made.

Paul also reported that requests for new SRFs have been made.

2.4   EDCS Registry

Farid Mamaghani reported that five batches of submissions have been assessed. Four are waiting to go to ballot and the other batch has an issue that needs to be resolved with the proposer. Further work is on hold, however, due to delays in funding.

Although there has been no work on the registry submissions, work has taken place on an upgrade to the EDCS Registry Interface to make it compatible with EDCS Ed 2, when it is issued. The updated interface was demonstrated later in the meeting (See 2.9).

2.5   Current Status of Action Items

There are currently two open action items:

27-01: Laura Moore to contact the ISO Geodetic Registry Network to determine membership for liaising requirements.
27-02: Rob Cox to continue investigation of all possible copyright issues with DGIWG in relation to DFDD.

Jack Cogman agreed to make enquiries to find out the current status of these two action items.

2.6   Review of WG 8 Work Programme

The WG 8 Schedule of Work was updated to reflect the reports from the editors. The revised version is shown in Appendix C.

2.7   Draft Recommendations to be Forwarded to WG 8 Plenary

The only recommendation to be identified during this Working Session was a request for a schedule extension for 18026 Ed 3 (SRM). The following text was proposed;

Whereas, ISO/IEC JTC 1/SC 24/WG 8 are endeavoring to progress 18026 to FDIS stage by the final completion date of 2013-10-20, it is clear that this deadline will not be met, due to unresolved US DoD budget issues.

Therefore, ISO/IEC JTC 1/SC 24/WG 8 requests SC 24 to ask JTC 1 for a 12-month extension of the schedule.

2.8   Presentation on Sketch-based Terrain Modeling

At the 2012 WG 8 Plenary in Brussels, Dr. Sanghyun Joo from ETRI gave a presentation on 3D Landforms for Digital Nature Rendering. The purpose of the research is to find alternative methods for defining a terrain surface. This presentation, named 'Sketch-based Terrain Modeling', was given by Sang-Won Ghyme, also from ETRI, and is a continuation of the work presented last year. The presentation is available from the WG 8 Document Register as document WG8N0582.

Five methods for generating 3D landforms were described, of which the first four were sketch-based, and the last one was Radial Basis Function (RBF)-based. For reference, a radial-based function is a real value function whose value depends only on its distance from the origin or a reference point. The five methods consisted of:

- Landform Sketching
- Terrain Synthesis
- Landform Composition
- Land-Outline Sketching
- RBF-Based Terrain Modeling

The presentation showed that all five methods for terrain modeling have both benefits and limitations. RBF-based terrain modeling was considered attractive to the researchers as it offers data compression, as well as the ability to define the terrain surface by a few formulae instead of any sketching.

Farid Mamaghani commented that the SEDRIS DRM, with either some modifications or 'as-is', may be able to accommodate either of the sketch-based or the RBF-based terrain data methods. He also emphasized that, in this case, the representation of the data is only part of the standardization. The methods for processing the data may also need to be standardized in order to ensure consistent results across systems that would use the data.

The possibility of raising a new project (NWIP) to address the standardization of this work was then discussed. Sang-Won Ghyme considered it would be at least two years before an NWIP could be raised, as there is likely to be an interruption in the research work at ETRI.

2.9   Demonstration of the Revised Interface to the EDCS Registry

Edition 2 of the EDCS will contain a number of new features that will not be visible when accessing the EDCS Registry on-line via the current web interface. In preparation for the publication of EDCS Ed 2 and in support of its new capabilities, a revision has been made to the web interface.

A demonstration of the revised interface was given by Farid Mamaghani. He showed that the interface supports the new capabilities that have been introduced into EDCS Ed 2, such as figures and profiles. An example of this was demonstrated for EC

DRAGLINE, which has two supporting figures. The browse and search capabilities have also been improved to allow, for example, the expanded ability to search across all dictionaries at once; selecting additional specific fields to search; searching not only dictionary concepts, but also other registerable items, such as profiles, figures, abbreviated terms, etc.; more customizable display of the browse or search results; and advanced search features.

The Working Session finished at 1150.

3. WG 8 Plenary

1400 Wednesday 28 August 2013

Acting Chair: Dick Puk

3.1 Welcome

The Convenor, Jack Cogman, welcomed people to the meeting and apologized that he was not able to be there in person.

3.2 Roll Call and Introductions

The list of those attending the WG 8 Plenary is given in Appendix B.

3.3 Minutes of the 28th meeting held in Brussels

The minutes of the last Plenary meeting were available only in draft form. These were displayed to the meeting and were 'talked-through' by Jack Cogman. The minutes were accepted, subject to the correction of some minor clerical errors.

Post Meeting Note: The corrected minutes were posted on the WG 8 Document Register as document WG8N0568 on 2013-09-03.

3.4 Convenor's Report

Jack Cogman stated that a Convenor's Report has already been issued as document 24n3481 / WG8N0578. The main change that has occurred since the report was issued is that the FDIS ballot for 18025 (EDCS) is now in progress, with a closing date of 2013-10-16. All NBs were encouraged to approve the ballot.

With respect to the programme schedules, the final submission date for the 18026 (SRM) FDIS was noted to be 2013-10-20. This was identified as a problem and was discussed later in the meeting. (See paras. 3.8.2 and 3.12).

3.5 National Body Reports

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

N3505 – UK

N3508 – Australia

N3511 – China

N3517 – Japan

N3534 – Korea

Delegates from Korea, Japan and Australia also gave verbal reports of the SC 24 mirror groups in their own country.

3.6 Proposed NWIP on 3D Landforms for Digital Nature Rendering

Sang-Won Ghyme gave a repeat of the Sketch-based Terrain Modeling presentation that was shown during the WG 8 Working Session the day before. Refer to para. 2.8 of the Working Session minutes for further details.

Support was expressed for new work in this area, but note was taken of the fact that the work could be interrupted by funding issues. Hence, although a proposal for a New Work Item Proposal was agreed in principle, it was decided that this would probably not occur until 2 years time.

3.7 Liaison Reports

3.7.1. DGIWG

There was no report from DGIWG.

3.7.2. SEDRIS

The SEDRIS liaison report has been issued as document 24n3507 / WG8N0581 .

Farid Mamaghani summarized the work as follows:

- Since the last Plenary, work has focused on EDCS Ed 2 and SRM Ed 3.

- EDCS is now in FDIS ballot. Revised normative references added by request of ITTF.

- Significant SRM progress has been made on orientation. There is still 4-5 months calendar time of work left to complete the FDIS, however.

- Avoided raising any NWIPs, except for the EDCS LB, due to US DoD budgeting issues.

- Registry interface has been updated in readiness for EDCS Ed 2.

- Pre-release of the beta version of 4.5 SEDRIS SDK (Software Development Kit).

3.7.3. TC 211

The TC 211 liaison report, prepared by Chris Body, is issued as document 24n3489.

3.7.4. Other

There were no other liaison reports.

3.8   Editors Reports

3.8.1. 18025 (EDCS)

While funding was still available, an effort was made to complete the FDIS for 18025 EDCS, enabling it to be submitted to SC 24 Secretariat by January 2013 and to ITTF by March 2013. ITTF has commented that some of the normative references have been superseded by later versions, and have therefore recommended that they be changed.

Post Meeting Note: The FDIS ballot closed on 2013-10-16 and was approved.

3.8.2. 18026 (SRM)

Work has continued on the new clause on Orientation in the SRM, but additional work remains that requires 4-5 months calendar time to complete. Since work is currently on hold due to US DoD budget issues and lack of funding, it will not be possible to meet the FDIS final date of 2013-10-20. A request for a time-scale extension therefore needs to be made to SC 24 and hence ITTF. This may be difficult, as the project is already on a 48-month track.

If the project should be cancelled, then it would be helpful to have written evidence to show to the US funding authorities of the impacts of delayed funding.

3.8.3. 18041-4 (EDCS LB)

The CD has been approved, but work on the DIS is currently on hold due to US DoD budget issues and lack of funding.

3.9   Report from the Registry Rapporteurs

3.9.1. EDCS Registry

The Rapporteur Group has completed the assessment of 6 submissions, but they are waiting to be balloted. Due to priority being given to completing the EDCS FDIS, there has been no further work on these submissions. It is not just a simple matter of starting a ballot, however, since the submitted items need to be checked for compatibility and consistency with EDCS Ed 2.

3.9.2. SRM Registry

No items have been submitted to date.

3.9.3. SEDRIS Registry

No items have been submitted to date.

3.10   Appointment of Registry Rapporteurs

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

EDCS: Farid Mamaghani

SRM: Paul Berner

DRM: Youngsoo Kwon

Although Youngsoo Kwon was not present at the meeting, he had agreed beforehand to continue as DRM Rapporteur.

3.11 WG 8 Content of the SC 24 Business Plan for 2013-2014

Jack Cogman reported that the changes made to the draft copy of the SC 24 Business Plan with respect to WG 8 related only to the current work programme and the achievements of the past year.

The WG 8 schedule of work, as updated in the WG 8 Working Session and as shown in Appendix C, was included in both the SC 24 Business Plan and the Recommendations to SC 24 after the meeting.

3.12 Recommendations to SC 24

The following items were included in the Recommendations to SC 24:

- Authorization to progress 18026 (SRM) and 18041-4 (EDCS LB) to the next stages.

- Schedule Advisement to request a 12-month extension for the FDIS submission date for 18026 (SRM)

- Proposed new work items for 18023 (SEDRIS) Parts 1 and 3, 18024-4 (SEDRIS LB) and 18042-4 (SRM LB) to make them compatible with EDCS Ed 2 and SRM Ed 3.

- Support for new work by the Korean National Body on 3D Landforms.

The 2013 Recommendations to SC 24 may be accessed as document WG8N0579 in the WG 8 document register.

3.13 Action Items

No new action items were raised as a direct result of this meeting.

Following on from the Working Session, Jack Cogman reported that there has been no progress on either of the two actions. However, action 27-01 (contacting the ISO Geodetic Registry Network to determine the requirements for liaison membership) was assigned to Laura Moore and, as Laura is primarily a WG 7 member, J. Cogman agreed to take it over as a new action 29-01.

Rob Cox has reported that action 27-02 (investigation of possible copyright issues with DGIWG) is continuing.

The updated action list is shown in Appendix D.

The Plenary meeting closed at 1600.

Appendix A
Agendas and Meeting Plan

A.1 WG 8 Working Session

Tuesday 27 August 2013

Acting Chair: Peter Ryan

0915 – 1030 (Approx.): WG 8 Working Session

- Results of ballots held since the 2012 Plenary in Brussels
- Issues related to the EDCS revision
- Issues related to the SRM revision
- EDCS Registry work load
- Current status of Action Items
- Review of the WG 8 work programme and revision, if necessary
- Draft recommendations to be forwarded to the WG 8 Plenary meeting

1100 (Approx.): 3D Landforms for Digital Nature Rendering

- A presentation on 3D Landforms will be given by Sang-Won Ghyme from Korea. A presentation on this topic was given at the last Plenary in Brussels by Dr. Joo. This presentation will show how the work has progressed and whether one or more New Work Item Proposals should be raised to address it.

1130 (Approx): Demonstration of Prototype Registry Website for EDCS Edition 2

- In anticipation of the release of Edition 2 of the EDCS, a revised interface to the EDCS Registry has been prepared. This will be demonstrated using a web browser.

A.2 WG 8 Plenary

Wednesday 28 August 1330 – 1600

Acting Chair: Dick Puk

1. Welcome

2. Roll call and introductions

3. Corrections to, and approval of, the minutes of the 28th meeting held in Brussels

4. Convenor's report

5. National body reports

6. Proposed New Work Item for the standardization of 3D Landforms for Digital Nature Rendering

7. Liaison reports

   - DGIWG

   - SEDRIS

   - TC 211

   - Other

8. Editor reports

   - EDCS

   - SRM

   - SRM LB

   - SEDRIS

   - SEDRIS LB

9. Report from the registry rapporteurs

   - EDCS

   - SRM

   - SEDRIS

10. Appointment of registry rapporteurs

   - EDCS

   - SRM

   - SEDRIS

11. Summary of WG 8 content in the draft SC 24 Business Plan for 2013-2014

12. Discussion and approval of Recommendations to SC 24

13. Review action items

14. Adjourn

A.2 WG 8 Plenary

A.3 Meeting Plan

	Monday 26 August	Tuesday 27 August	Wednesday 28 August	Thursday 29 August	Friday 30 August
0830	**WG9 - Rm 1/2/3** Working Session 0930 - 1230	**Arrival - Opening** 0900 - 0915am			**SC24 Rm 1/2/3** Plenary 0930 - 1330
		WG6 - Rm 9 Working Session 0915-1230	**WG7 Rm 1/2/3** Plenary 0900 - 1100	**WG6 Rm 1/2/3** Plenary 0900 - 1130	
		WG7 - Rm 1/2/3 Working Session 0915 - 1130 Drafting (I) 1130 - 1230			
		WG8 - Rm 8 0915 -1230 Working Session 3D Landforms Registry Interface			
1230 -1330	**Lunch**				
1800	**WG9 - Rm 1/2/3** Working Session 1330-1630	**WG6 - Rm 9** Working Session 1330-1600	**WG8 Rm 8** Plenary 1330-1600	**HOD/C Rm 1/2/3** Drafting Committee for Plenary 1330 - 1800	
		WG7 - Rm 1/2/3 Drafting (II) 1330-1500	**WG9 - Rm 1/2/3** Plenary 1600-1800		
		HOD/C and Liaison meeting Rm 1/2/3 1600 - 1800			

23-Jul-2013 Version 2 (+Format changes 14-Nov-2013)

Appendix B
List of Attendees

Name	National Body	E-mail	Working Session	WG 8 Plenary
Ha-Jine Kimn	Chairman SC 24, Korea	hjkimn@ajou.ac.kr	√	√
Dick Puk	US/UK	puk@igraphics.com		√
Martin Smith	UK	msmith1@talktalk.net		√
Peter Ryan	Australia	peter.ryan@dsto.defence.gov.au	√	√
David Ronnfeldt	Australia	david.ronnfeldt2@defence.gov.au	√	√
Doug Stapleton	Australia	dougstap@aus.ibm.com		√
Jie Hou	Australia	jie.hou@defence.gov.au		√
Masaki Aono	Japan	aono@tut.jp		√
Myeong Won Lee	Korea	mwlee@suwon.ac.kr		√
Hyokwang Lee	Korea	adpc92@gmail.com		√
Kwan-Hee Yoo	Korea	khyoo@chungbuk.ac.kr		√
Yun Koo Chung	Korea	ykchung@etri.re.kr		√
Sang-Won Ghyme	Korea	ghyme@etri.re.kr	√	√
Jack Cogman	UK	jack.cogman@datasim.net	WebEx	WebEx
Farid Mamaghani	US	farid@halcyon.com	WebEx	WebEx
Paul Berner	US	berner@consultant.com	WebEx	WebEx
Louis Hembree	US	hembree@razzolink.com	WebEx	WebEx

Appendix C
WG 8 Schedule of Work

Standard	NWIP	CD PDAM PDTR	DIS (FCD) FPDAM	FDIS FDAM DTR	IS/TR
EDCS (18025) Edition 2	Approved Oct 08	PDAM Approved Aug 11	DIS Approved Sep 12	FDIS Ballot to 16 Oct 13	Jan 14
SRM (18026) Edition 2 Revision	Approved Feb 09	CD Approved with negative comment res. Aug 11	DIS Approved Oct 12	FDIS Sep 14	Mar 15
SEDRIS Pt 1 (18023-1) Amendment 1	Approved Sep 09	PDAM Sep 09	FPDAM Approved 16 Jun 11	FDAM Approved 18 Apr 12	Amd 1 Published May 12
SEDRIS Pt 3 (18023-3) Amendment 1	Approved Sep 09	PDAM Sep 09	FPDAM Approved 16 Jun 11	FDAM Approved 18 Apr 12	Amd 1 Published May 12
SEDRIS LB (18024-4) Amendment 1	Approved Sep 09	PDAM Sep 09	FPDAM Approved 16 Jun 11	FDAM Approved 18 Apr 12	Amd 1 Published May 12
Procedures for registration of items (9973) Edition 3	NWIP Approved 9 Mar 12	CD Approved 9 Mar 12	DIS Approved 14 Nov 12		Ed 3:2013 July 2013
EDCS LB (18041-4) Ed 3	NWIP Approved 14 Jun 13	CD Approved 14 Jun 13	DIS May 14	FDIS Oct 14	Apr 15

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:	Preliminary Draft Amendment
FPDAM:	Final Preliminary Draft Amendment
FDAM:	Final Draft Amendment
PDTR:	Preliminary Draft Technical Report
DTR:	Draft Technical Report
TR:	Technical Report

Appendix D
Action Items

Action Items
ISO/IEC JTC 1/SC 24/WG 8
Meeting #29, Sydney, Australia 28 Aug 2013

No.	Action Item	Assigned to	Due	Done	Comment
27-01	Contact the ISO Geodetic Registry Network to determine membership for liaising requirements.	L. Moore	30-Nov-11	28-Aug-13	No contact made, but advised that the Registry is run by TC 211. Closed 28-Aug-2013 and replaced by new action 29-01
27-02	Continue investigation of all possible copyright issues with DGIWG DFDD.	R. Cox	31-Dec-11		28-Aug-2013: Action continuing
29-01	Contact the ISO Geodetic Registry Network to determine the requirements for liaison membership.	J. Cogman	31-Dec-13		