|  |  |  |
| --- | --- | --- |
| Working Group | **IEEE DYSPAN-SC 1900.5** |  |
| Title | ***Meeting minutes 0273 for the P1900.5 Meetings of July 12, 2024*** |  |
| DCN | ***5-24-0024-00-mins*** |  |
| Date Submitted | ***10/31/2024*** |  |
| Source(s) | ***Eric Lindahl (AMT66)*** ***email:*** ***eric@sciumo.com*** |  |
|  |  |  |
| Abstract | ***Minutes for the IEEE 1900.5 meetings held on July 12, 2024*** |  |
|  |  |  |
| Notice | This document has been prepared to assist the IEEE DYSPAN-SC. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |  |
| Release | The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE’s name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE’s sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that IEEE DYSPAN SC may make this contribution public. |  |
| Patent Policy | The contributor is familiar with IEEE patent policy, as outlined in [Section 6.3 of the IEEE-SA Standards Board Operations Manual](http://standards.ieee.org/guides/opman/sect6.html#_blank) <<http://standards.ieee.org/guides/opman/sect6.html#6.3>> and in *Understanding Patent Issues During IEEE Standards Development* <<http://standards.ieee.org/board/pat/guide.html>>. |  |

**1. Administrivia**

**1.a Roll Call**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 7/12/24 | WG Status | First Name | Last Name | Affiliation |
| X | Member | Julia | Andrusenko | Rampart Communications |
| X | Member | Carlos | Caicedo | Syracuse University (Vice Chair) |
|  | Participant | David | Chester | L3Harris |
|  | Member | Brent | Josefiak | L3Harris |
|  | Participant | Mitch  | Kokar | VIStology & Northeastern University |
|  | Member | Alex | Lackpour | Drexel University |
| X | Member | Eric | Lindahl | AMT66 |
| X | Member | Reinhard | Schrage | SchrageConsult |
|  | Member | Kael | Stilp | MITRE |
| X | Member | John  | Stine | MITRE (Chair) |
|  | Participant | Timothy | Woods | ANDRO Computational Solutions, LLC |
|  | Participant | Daniel | Zahirniak | Joint Electromagnetic Warfare Center (JEWC) |
|  | Participant | Ed | Coyle | Georgia Institute of Technology |
|  | Participant | Karen  | Haigh |  |
|  | Member | Shastri | Jayram | University of Johannesburg |
|  | Participant | Sean | Furman | ANDRO Computational Solutions, LLC |
|  | Participant | Joel | Johnson | L3Harris |
|  | Participant | Chad | Lau | L3Harris |
|  | Participant | Jakub | Moskal | Vistology |
|  | Participant | Becca | Rousseau | MITRE |
|  | Member | Tony | Rennier | Foundry Inc. |
|  | Participant | Mark | Silvius | SSC |
|  | Participant | Jesse | Caulfield | Keybridge Wireless |
|  | Observer | Dalisa | Gonzalez | IEEE |
|  | Participant | Yanji | Chen | Google |
|  | Member | Mohin | Ahmed | HRL |
|  | Participant | Rajesh  | Krishan | Self |
|  | Participant | Benjamin | Rolf | Blind Creek Associates (BCA) |
|  | Participant | Jxiaxang | Tang | University of Minnesota |

Quorum achieved: No (6 members required)

**1.b. Approval of Agenda**

1. Administrivia
	1. Roll Call / Quorum Check
	2. Approve Agenda
	3. Copyright Slides
	4. Patent Slides
	5. Approval of recent minutes
2. Status on 1900.5 Revision
3. Status on 1900.5.1
4. Status on 1900.5.2 Revision
5. Opensource Repository Status
6. Review of other 1900 activities (1900.1, Leadership meeting etc.)
7. Website discussion
8. 1900.5 Marketing Opportunities
9. 1900.5 Meeting Planning and Review
10. AoB

Approval of Agenda from 5-24-0013-00-agen

* Mover: Eric

Second: Carlos

Vote: UC

**1.c. Copyright slides**

Copyright policy slides were presented. No comments came forward.

**1.d. Patent slides / Notes on status**

Patent related slides were presented. No issues came forward

**1.e. Approval of recent minutes**

* Motion to approve February 2 2024 WG Minutes contained in Doc #:
* Mover:
* Second:
* Vote:
* Motion to approve April 5 2024 WG Minutes contained in Doc #:
* Mover:
* Second:
* Vote:

**2. Status of 1900.5 Revision**

* 4/5/24
	+ Held one meeting in March – clarified how to proceed with examples of the hierarchical architecture should be applied
* 6/7/24
	+ Had no meetings in May but plan an ad hoc next week. Material was posted on iMeet
* 7/12/24
	+ Had a meeting late June and there is material that needs to be collected and provided on iMeet.

**2. Status of 1900.5 Revision PAR Strategy**

None

**3. Status of 1900.5.1**

* 3/1
	+ Ad hoc scheduled to follow this meeting
* 4/5/24
	+ Work has progressed on the development of the 1900.5.1 revisions
* 6/7/24
	+ Ad hoc meeting on 31 May 24. Working on the new material – how to express Policy or Protocol in the standard and then how to represent policy in the policy language. It would be expressed in the context of a spectrum highway.
* 7/12/24
	+ Ad hoc after this WG meeting

**4. Status of 1900.5.2 Revision**

* 3/1/24
	+ Standard submitted to MEC (Mandatory Editorial Compliance) on 17 Feb
	+ Invitation to join the ballot was sent out and closes on 22 Mar 24
* 4/5/24
	+ Ballot pool has been formed ~54 members
	+ Expect the first ballot to start before the next WG meeting
* 6/7/24
	+ Ballot is open and will close on 19 Jun 24
* 7/12/24
	+ Ballot was extended until the required return rate was achieved
	+ Standard approved at 94% but there are 25 comments

Must identify the comment resolution group (CRG)

* + CRG
		- John Stine
		- Eric Lindahl
		- Carlos Caicedo-Bastidas
		- Reinhard Schrage
		- Kael Stilp
		- Becca Rousseau
	+ Next CRG meeting 1300 19 July

**5. Opensource Repository**

* Lead – Eric Lindahl
* Maintainer – Carlos Caicedo, Becca Rousseau
* 3/1/24
	+ Will attempt a meeting with IEEE Josh Gay and invite Becca to the meeting.
	+ Will post after balloting as PURL requires final approval
* 4/5/24
	+ Same
* 6/7/24
	+ Same
* 7/12/24
	+ Same

**6. Review of other DySPAN-SC activities**

* Met on 18 June
* Treasurer – $46,355 in the account
* Selected updates
	+ 1900.1 – Francesco stepped down as the WG chair. Reinhard is interacting with the member to instigate activity in the body
	+ 1900.2 – WG chair has resigned – Eric finds the standard useful and might take on leadership as the chair. Sees a need to connect this work to the SCMs of IEEE 1900.5.2
	+ 1900.6 – Still need to kick off the work. Have a tentative PAR. Primary goal of their revision is to refresh the use cases and then linking the data model to those use cases. The current baseline standard is no longer active. More of a housekeeping effort
	+ 1900.8 – Continue to discuss the semantic data model. They are avoiding the development of a file format or an API. They are developing another approach to have a file that provides a way to access the standardized concepts. 1900.8 uses and annotation file and it annotates the data set. The work is turning into a software engineering task. We have a test case. We are using Croissant – the open source library that Google provides and is being used on ML websites. Open data. Com is one of them. Hugging face is another. We want to use this framework for ML data . There are some things they have to accommodate but now showstoppers. We could do this for the next three months to figure it out and then to write it up.
* Updating the 1900 web site – not much work has been done
* Each workgroup has been tasked with updating their specific content
* The Secretary’s (Alex Lackpour’s) role is to update our web site. Recommended reviewing and editing our website as a word document and he would then make changes based on the word document to the web page
* Funds are available to support publishing and promotion
* Potential new projects – Oliver encouraged our engagement with the IMT 2030 New Standards Initiative for 6G - IMT towards 2030 and beyond (itu.int)
* DySPAN 2025 will be in London – Consider a face-to-face there

**7. Website**

* [IEEE 1900.5 | DySPAN Standards Committee](https://sagroups.ieee.org/dyspan/ieee-1900-5/)
* [Word version on iMeet](https://ieee-sa.imeetcentral.com/p1900-5/folder/WzIwLDE3MDgwNzczXQ/WzIsODQ4NjE5NjFd/) – volunteers to update
	+ Images: Authors
	+ Scope: John
	+ 1900.5R: Eric
	+ 1900.5.1 & 1900.5.1R: Reinhard
	+ 1900.5.2 & 1900.5.2R: John Stine

**8. 1900.5 Marketing Opportunities**

* 4/5/24
	+ IEEE 1900.5.2 Tutorial at DySPAN 24 at 3:30 – 5:00 PM 13 May 24
	+ DySPAN poster covers aspects of SCMs and spectrum sharing contracts – spectrum access agreements
	+ NRDZ meetings can be found at <https://spectrumweek.org/agenda/>
* 6/7/24
	+ Successful tutorial at DySPAN 24 – A lot of awareness exist on IEEE 1900.5.2
	+ Received very positive feedback about Eric’s work using LLM with SCMs
* 7/12/24
	+ Eric wrote an abstract for AOC that includes SCM as part of the discussion (application of SCMs for humanitarian assistance.)
	+ Tutorial submission for MILCOM
	+ Association of Old Crows (AOC) Webinar on 22 Aug showing the use of SCMs for managing EMBM
	+ Carlos has a paper for TPRC – Spectrum economics and sharing with SCMs – a case study in the 6 GHz band

**9. 1900.5 meeting planning and review**

* P1900.5 WG Mtg 6/7/24 1430 ET
* P1900.5 Revision Ad-hoc 6/28/24 1330 ET
* P1900.5 WG Mtg 7/12/24 0800 ET
* P1900.5.1 Revision Ad-hoc 7/12/24 0800 ET
* P1900.5.2 Revision CRG 7/19/24 1300 ET
* P1900.5 Revision Ad-hoc 7/26/24 1330 ET
* P1900.5.2 Revision CRG 8/2/24 1300 ET
* P1900.5 WG Mtg 8/2/24 1430 ET
* P1900.5.1 Revision Ad-hoc 8/2/24 1430 ET

**10. AoB**

* None

Meeting adjourned