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| an Working Group | **IEEE DYSPAN-SC 1900.5** |  |
| Title | ***Meeting minutes 0273 for the P1900.5 Meetings of August 4, 2023*** |  |
| DCN | ***5-24-00-00-mins*** |  |
| Date Submitted | ***01/11/2024*** |  |
| Source(s) | ***Eric Lindahl (AMT66)*** ***email:*** ***eric@sciumo.com*** |  |
|  |  |  |
| Abstract | ***Minutes for the IEEE 1900.5 meetings held on August 4, 2023*** |  |
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**1. Administrivia**

**1.a Roll Call**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 8/4/23 | WG Status | First Name | Last Name | Affiliation |
|  | Member | Julia | Andrusenko | Rampart Communications |
| X | Member | Carlos | Caicedo | Syracuse University (Vice Chair) |
| X | Member | David | Chester | L3Harris |
|  | Member | Brent | Josefiak | L3Harris |
|  | Member | Mitch  | Kokar | VIStology & Northeastern University |
| X | 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) |
|  | Member | Timothy | Woods | ANDRO Computational Solutions, LLC |
|  | Participant | Daniel | Zahirniak | Joint Electronic Warfare Center (JEWC) |
|  | Member | Ed | Coyle | Georgia Institute of Technology |
|  | Participant | Karen  | Haigh |  |
| X | 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 | Jennifer | Santulli | IEEE |

Quorum achieved Yes

**1.b. Approval of Agenda**

Approval of Agenda from 5-23-0015-03-agen

* Mover: Dave
* Second: Reinhard
* 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**

Approval of WG minutes: 1/6/23

Missing

Approval of WG minutes: 7/7/23

Missing

**2. Status of 1900.5 Revision**

* 7/7/23
	+ Went over possible enumerations of classes of systems, actors, and components
	+ Won’t be done by December and not within a year so we will seek an extension
	+ Eric presented the C4 model for the concepts and providing visualization of them – Shastri created a UML model which we will discuss at the next ad hoc
* 8/4/23
	+ PAR Extension approved by DySPAN SC and submitted to NesCom
	+ Carlos briefed the group on the history of our standards work and identified the good material that is available and proposed a direction that the group agreed to

**3. Status of 1900.5.1**

* 7/7/23
	+ Had an ad hoc on 29 June
	+ PAR for the augmented language was uploaded on the 9th of May
	+ Continuing to work – hope to bring the PAR and working on the policy language – the interpreter and the compiler.
	+ Will write down a scope to be pushed forward with the PAR and the new draft
* 8/4/23
	+ Updated a revision PAR and will be discussed at the follow-on ad hoc.

**4. Status of 1900.5.2 Revision**

* 7/7/23
	+ CRG meeting and we are working the comments.
	+ Worked through some comments
* 8/4/23
	+ Held three CRG meetings and in those meetings
		- Updated the scanning methods
		- Added a Minimum separation distance
		- Provided informative annexes on the spherical direct and inverse problems
		- Add a better description of pointing for power maps
		- And more
	+ Expect completion by the end of September

**5. Opensource Repository**

* Lead – Eric Lindahl
* Maintainer – Carlos Caicedo, Becca Rousseau
* 7/7/23
	+ Alex and Eric will contact on the PURL status as well as support 1900.8
* 8/3/23
	+ Plan to have schemas ready in a couple of weeks.
	+ We still have not made progress using PURL

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

* Met on 18 Jul–notes follow
* Treasurer – Reinhard has received a credit card and it has been activated
* Selected updates
	+ 1900.2 – Going through a revision of the baseline standard
	+ 1900.6 – Creating a PAR to work on the baseline standard. Would bring in any amendments. Want one standard and so one document. Looking at standard 6a to manage spectrum data
	+ 1900.8 – Goal is to create a standard for collecting RF data to input into RF ML algorithms. Work focuses on the data and its associated meta data. Need to ensure all use cases are addressed.
* Updating the 1900 web site
	+ 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
* Two potential new projects
	+ DySPAN-SC will be gauging the interest to standardize CIL – was developed by the DARPA Spectrum Collaboration Challenge (SC2) – Carlos to take the lead on that
		- Sherman et al wrote a paper on VITA 49 carrying SCM – adapted CIL could carry SCMs.
		- Challenge is the CIL is just code, there is no documentation
		- May require permission from the company that did initial work
		- Not certain where it should be standardized but most likely within IEEE 1900.5 WG – may not be enough bandwidth
	+ Standards linked to the National Spectrum Consortiums (NSC): SSC’s MICCA radio control channel technology – issue is that it needs both the government and the prime contractor, SSC, to permit to be standardized – Alex is taking the lead on this activity.
		- Submitting a paper to MILCOM – describes the functions of the control channel technology and some experimentation results
* Still hoping for a face-to-face SC meeting at the DySPAN Conference in DC in May 24

**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**

* 7/7/23
	+ Carlos and John submitted a tutorial proposal on SCMs to MILCOM 23 which will occur in late October
	+ Julia – submitted proposal to MILCOM on intelligent algorithms and their applications to communications
	+ Keybridge runs CBRS SAS and a TV Whitespace database and are considering a frequency coordination system in the 6 GHz. We want to squeeze performance out of the CBRS SAS. Assignments do not scale well. Looking at alternate methods that scale better and SCM is one of them interested in the spec and data model. Wants to use SCMs as a logical data model – want to come up with equivalent CBRS solution. Answers need to match. Want to turn an n! problem into a log n problem. Aggregate interference is a big issue. Seeks channel assignment and power limitation to optimize the outcomes. Wants computational simplicity.
* 8/4/23
	+ Carlos and John will be presenting a 1900.5.2 tutorial at MILCOM 2023 an Oct 30th.
	+ John submitted an abstract to do a presentation on using standards in EMSO to AOC
	+ Consider having a booth at DySPAN 24

**8. 1900.5 meeting planning and review**

* ~~P1900.5 WG Mtg 7/7/23 0800 ET~~
* ~~P1900.5.1 Ad hoc 7/7/23 0800+ ET~~
* ~~P1900.5.2 CRG 7/7/23 1300 ET~~
* ~~P1900.5 Revision Ad-hoc 7/14/23 1330 ET~~
* ~~P1900.5.2 CRG 7/28/23 1300 ET~~
* ~~P1900.5 Revision Ad Hoc 7/28/23 1330 ET~~
* P1900.5.2 CRG 8/4/23 1300 ET
* P1900.5 WG Mtg 8/4/23 1430 ET
* P1900.5.1 Ad hoc 8/4/23 1430+ ET
* P1900.5 Revision Ad-hoc 8/11/23 1330 ET
* P1900.5.2 CRG 8/18/23 1300 ET
* P1900.5 Revision Ad-hoc 8/25/23 1330 ET
* P1900.5 WG Mtg 9/1/23 0800 ET
* P1900.5.2 CRG 9/1/23 1300 ET

**9. AoB**

* **Workshop at the FCC on AI applied to communications** [**https://www.fcc.gov/fcc-nsf-ai-workshop**](https://www.fcc.gov/fcc-nsf-ai-workshop)

Meeting adjourned at 4:15 PM ET