

Eighteenth Session of the Asia-Pacific Regional Space Agency Forum (APRSFAF-18)

CSA (Communications Satellite Application) WG activities

Proposed Outline

1. The scope /objectives of CSA WG activities

The CSA WG has been discussing many topics on satellite communication matters and has been providing good opportunities to exchange each country's status report on, in particular, digital divide issues as well as the broadband service in the Asia-Pacific region. The CSA WG should share the experiences for realizing cooperation among countries in the region, regarding applications of satellite communication for tele-education, tele-medicine and disaster management, taking into account the needs to resolve the digital divide in the region. Especially, the satellite communication played an indispensable and important role after March 11 Great East Japan Earthquake.

In consideration of the above situation and previous APRSAF-17 discussion, the outline of the CSA WG in the APRSAF-18 is as follows:

1) Sharing experiences and opportunities of the satellite communication for tele-education, tele-medicine, disaster management and mitigation in the Asia-Pacific region

Great East Japan Earthquake caused a catastrophic damage to the ground communication networks in a disaster-stricken area. On the other hand, the satellite communication networks played a major role in the restoration after the earthquake. The CSA WG should share how the satellite communication was used in the disaster scene, and the knowledge of satellite communication required in the future, learning from the recent restoration support activities.

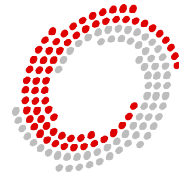
2) New applications or concepts of the satellite communication in the Asia-Pacific region

Until the previous meetings, many discussions have been made and useful information has been exchanged. Some applications were planned, demonstrated and organized to demonstrate in several countries. The WINDS satellite communications experiments, which were proposed in the APRSAF, are still continuing. Since the participants of APRSAF-17 agreed to discuss mechanisms for technology transfer with the aim of not only demonstration but also continuous use, the CSA WG will have more meaningful discussion about this issue. The CSA WG should continue these activities the regional cooperation and should aim to promote new applications or concepts of the satellite communication in the Asia-Pacific region with the active participation of satellite operators.

In addition, the CSA WG plans a joint session titled “Share the information of technical trend for ship monitoring in the Pacific region” with the Earth Observation (EO) WG. Ship monitoring has received attention from the global maritime community. A space-based automatic identification system (AIS), which is a new application of satellite communication, is reported from the CSA WG side and discussed.

3) Promotion for the activities on the Global Navigation Satellite System (GNSS) in the Asia-Pacific region

The satellite-based Positioning, Navigation and Timing (PNT) are one of the important satellite applications and is being widely used in the Asia-Pacific countries. According to the recommendation of the APRSAF-15, the Asia Oceania regional workshop on Global Navigation Satellite Systems (GNSS) has been continuously held and the “Asia Oceania Multi-GNSS Demonstration Campaign” was successfully established. The summary of the 3rd Asia Oceania Regional Workshop on the GNSS held in November will be reported, and the CSA WG will support relevant activities..



2. The result of CSA WG activities in APRSAF-17

See the attached APRSAF-17 adopted recommendations.

3. The Draft of Agenda

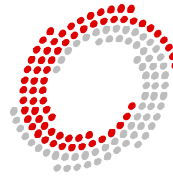
- 1) Opening of the session
- 2) Adoption of the agenda
- 3) General introduction and guidance of CSAWG
- 4) Contribution of communications satellites to Great East Japan Earthquake
- 5) Presentations of communications satellite systems and applications
 - a. Communications Satellite Systems
 - b. Current Status in Asia Pacific Region
- 6) Activity reports in the field of tele-education, tele-medicine and disaster management
 - a. Study report
 - b. Country report
 - c. General Discussion
- 7) Joint session with EO WG titled “Share the information of technical trend for ship monitoring in the Pacific region”
- 8) Report on the Multi GNSS Workshop
- 9) Other matters
- 10) Closing of the session

Appendix : Indicative schedule of work of the Communication Satellite Application Working Group

(6 - 7 December 2011, Singapore)

Co-Chairs: Dr. ONG Jin Teong (C2N Pte. Ltd., Singapore)
Mr. Hiroki Kohata (Japan Aerospace Exploration Agency, Japan)

<i>Date</i>	<i>Time</i>	<i>Agenda Item(s)</i>	
<Day 1> 6 December, Tuesday	09:00- 09:05	1.	Opening of the session • Remarks by the Co-Chairs
	09:05- 09:10	2.	Adoption of the agenda
	09:15- 09:45	3.	General introduction and guidance of CSAWG • Self Introduction • Review of the last CSAWG at Melbourne
	09:45- 11:00	4.	Contribution of communications satellites to Great East Japan Earthquake - JAXA, Japan - NICT, Japan - Sky Perfect JSAT, Japan
	11:00- 11:15	<i>Coffee Break</i>	
	11:15- 11:40	4.	Contribution of communications satellites to Great East Japan Earthquake - LASCOS, Japan
	11:40- 12:30	5-a.	Presentations of communications satellite systems and applications • Communications Satellite Systems - Turksat Uydu Hab: As., Turkey - Singapore (TBD)
	12:30- 13:30	<i>Lunch</i>	
	13:30- 15:00	5-b.	Presentations of communications satellite systems and applications • Current Status in Asia Pacific Region - ICTPA, Mongolia - Office of the Government, Lao PDR - MELCO, Japan - NEC, Japan
	15:00- 15:15	<i>Coffee/tea break</i>	
	15:15- 16:05	6-a.	Activity reports in the field of tele-education, tele-medicine and disaster management Current Status in Asia Pacific Region • Study report - ITB, Indonesia - ARIB, Japan
16:05- 17:00	6-b.	Activity reports in the field of tele-education, tele-medicine and disaster management Current Status in Asia Pacific Region • Country report - ANGKASA, Malaysia - Debre Berhan University, Ethiopia	
<Day 2> 7 December, Wednesday	09:00- 09:30	Opening of the session • Report of the Day 1 discussion • Self introduction for new participants	



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<i>Date</i>	<i>Time</i>	<i>Agenda Item(s)</i>	
	9:30- 12:00	9.	<p>Joint session with EO WG titled “Share the information of technical trend for ship monitoring in the Pacific region”</p> <ul style="list-style-type: none"> • Introduction of sea ship monitoring in Europe and America cases (JAXA/SAPC) • Report of sea-ship monitoring in Asian region <ol style="list-style-type: none"> a) The result of ALOS collaborative investigation (Dr. Motofumi Arii, Mitsubishi Space Software Co., Ltd., Japan) b) AIS by SDS4 mission (JAXA, CSA WG) c) LAPAN-A2: Indonesian Near-Equatorial Surveillance Satellite: (Prof. Hardhienata/Mr. Suhermanto, LAPAN, Indonesia) d) Research and potential applications of nano-satellite for ship traffic monitoring in Viet Nam: (Mr. Tri Dinh Quoc, FSpace Laboratory - FPT University, Vietnam) e) Resourcesat-2 (COMDEV)/AIS by ISRO (ISRO) f) Commercial case (Exact Earth, Canada) • Discussion & Conclusion(Tentative)
	12:00- 13:00	<i>Lunch</i>	
	13:00 - 14:30	6-b	<p>Activity reports in the field of tele-education, tele-medicine and disaster management Current Status in Asia Pacific Region</p> <ul style="list-style-type: none"> • Country report <ul style="list-style-type: none"> - AGI, Singapore - Ministry of Post and Telecommunication, Lao PDR - ETRI, Korea
	14:30- 14:45	<i>Coffee/tea break</i>	
	14:45- 15:35	8.	<p>Report on the Multi GNSS Workshop</p> <ul style="list-style-type: none"> - ETRI, Korea - JAXA, Japan
	15:35- 16:50	10.	Concluding Session
	16:50 - 17:00	Closing of the session	