

APRSAF-12

**Concept Paper
for
Communication Satellite Applications W.G.**

► **Main Theme**

Concentration of wisdom and enhancement of collaboration to think out new applications of communication satellites and to demonstrate their feasibility in the Asian and Pacific region through the field experiments using WINDS, Wideband InterNetworking engineering test and Demonstration Satellite

1. Subjects to be discussed and Information to be shared

>> Current Status, Schedule and Proposed Field Experiments of WINDS

- 1) What progress has been made in the WINDS program and what is the latest schedule toward the launch?
- 2) What antenna coverage and their connections does WINDS have?
- 3) What unique characteristics and functions does WINDS system have?
- 4) What air interface has been specified?
- 5) What field experiments have been proposed so far from the Asian countries?
- 6) What significance does each proposal have?
- 7) What system arrangement is required to conduct each proposed experiment?

>> Contribution to Disaster Management

- 1) How should the APRSAF collaborate against the future disaster in our region?
- 2) What lessons have we learned from the past disasters and what can the SatCom do in those learnt lessons?
- 3) How should communication satellites (SatCom) share the roles of disaster management with terrestrial communication networks?
- 4) What contributions will JAXA's SatCom projects, ETS-VIII, WINDS and QZSS, make to disaster mitigation?

>> Other Topics

- 1) Update status of JAXA's SatCom projects (ETS-VIII & QZSS) and the opportunity for Asian countries to participate in those SatCom field tests
- 2) What new SatCom programs are being or to be promoted in the Asia

Pacific region?

- 3) How can SatCom reduce the broadband access cost and contribute to bridge the digital divide? (Action item given at 11th APRSAF)

2. Confirmation of the status of action items given in 11th APRSAF

- 1) Invite attendance from commercial satellite operators and other industry participants to
 - explore methods to decrease broad band access cost and thereby overcome the digital divide
 - Consider dividing the session into applications and technology part.
- 2) Information on the ISU CONNECTS Team Project to be distributed to APRSAF members who will be asked to comment on it's applicability to the Asia Pacific region.
- 3) Establish an award recognizing the best example of enhanced rural broadband connectivity using satellite communications. The first award should be presented at APRSAF-12.
- 4) Working Group Web page to be regularly reviewed.
- 5) Form Working Group Mailing Lists for applications, basic technologies, systems and integration.
- 6) Distribute information on the status of Asia Broadband Program and call for suggestions on collaborative field projects.
- 7) Invite further proposals for i-Space applications using WINDS, ETS-VIII and QZSS; and provide regular updates on launch time frames.