

## **Report of the ITU Regional Workshop for CIS on Advanced Satellite Communications Technologies**

***Yerevan, Republic of Armenia 17-19 September 2014***

The ITU Regional Workshop for CIS was organized by the Telecommunication Development Bureau (BDT) in close collaboration with the Radiocommunication Bureau (BR) and the Ministry of Transport and Communication of the Republic of Armenia and took place from 17 to 19 September 2014 in Yerevan. The Workshop was attended by over 50 representatives of the communication administrations, regulators, ICT related scientific and research institutions and universities and ITU-D and ITU-R Sector Members from 6 countries (Republic of Armenia, Republic of Belarus, Kyrgyz Republic, Russian Federation, Republic of Tajikistan, Ukraine and France), as well as by representatives of the international organizations, Intersputnik and Evtelsat. Also, 4 representatives of ITU took part in the event, including BR Director, Mr. Francois Rancy, who arrived in Yerevan at the invitation of the Communication Administration of Armenia.



At the opening ceremony, the greeting speeches were delivered by Deputy Minister of Transport and Communications of the Republic of Armenia, Mr. Gagik Tadevosyan, Head of the Staff of the Ministry, Mr. Gagik Grigoryan, as well as by the BR Director, Mr. Francois Rancy and Head of ITU Area Office for CIS, Mr. Orozobek Kaiykov.

The event was conducted in 5 Sessions, during which 20 presentations were delivered. The workshop covered the issues of technical and regulatory framework of creation of the satellite communication system; principles of shared use of frequency bandwidths by space and terrestrial radiocommunication services; Ka-band communication satellites; systems of mobile communication, using non-synchronistic satellites; satellite broadcasting systems (receipt of television and sound programmes, hybrid systems); global navigation satellite systems; satellite meteorology; satellite radiomonitoring and others.



The workshop agenda contained the issues of international legal framework for development of satellite radiocommunication systems, especially the activities of the ITU Radio Regulatory Board (RRB) presented by **Mr. Viktor Strelets**, Member, ITU Radio Regulatory Board; Practical use of spectrum/orbit resource for creation of satellite systems of

radiocommunication for fixed and mobile satellite communication, satellite broadcasting, satellite radionavigation, space scientific research, satellite radiomonitoring. Also, thanks to presentation of **Mr. Albert Nalbandyan**, Advisor to the Minister of Transport and Communication of the Republic of Armenia, the workshop participants got acquainted with WRC-15 preparations relevant to the space radiocommunication services.



The Workshop was concluded by the roundtable chaired by Mr. Albert Nalbandyan, which elaborated following conclusion:

- *The workshop was very topical, while information presented at the workshop can be used by its participants in their professional activities, as well as in preparation for WCR-14;*
- *The event was conducted at a very high scientific and research level, the presentations had practical value;*
- *The results of the research carried out by the communication administrations and the ITU, which were presented at the workshop, create a basis for practical deployment of space systems;*
- *Space communication systems are very topical and much in demand for the economic development of the CIS countries;*
- *Use of space technologies furthers bridging digital divide;*
- *The Ka-band satellite systems have high penetration capability and are an efficient means for improvement quality of service in underpopulated countries and areas, as well as in remote areas;*

The workshop participants noted:

- *necessity to continue elaboration of the methods to improve efficiency of the limited frequency and orbit resource;*
- *necessity to improve international regulatory framework aimed at:*
  - *More efficient use of spectrum and satellite orbits at international level;*
  - *Geostationary orbit load backoff;*
  - *Provision of equal access to orbital frequency resource;*
- *Capability to deploy national satellite communication systems through implementation of joint projects between several communication providers, including international organizations (Intersputnik), which possess own orbital and frequency resource and relevant experience;*

- *Necessity to elaborate regulatory guideline related to use of picot and nano satellites in radiocommunication systems;*
- *Importance interference control in satellite networks, including elaboration of ITU-R recommendations, as well as ITU-R activities aimed at combining the capabilities of national radiomonitoring systems and elaboration of international register of satellite networks interference;*
- *Necessity of active participation of the CIS communication administrations in preparation for VCR-15 and AP-15.*

At the closure ceremony, the thank-you speeches were delivered by Mr. Gagik Tadevosyan and Mr. Gagik Grigoryan. The event was evaluated as a very successful.



The participants expressed gratitude to the ITU, and in particular, to the Area Office for the CIS, for organization of the workshop. Also gratitude was expressed to the Communication Administration of Armenia for excellent organization and hosting the event. Special thanks were expressed to a row of speakers for their interesting and topical presentations.

The ITU, in their turn, express gratitude to all the participants and to the host, the Communication Administration of Armenia.