

Introduction

PER HJALMAR LEHNE



Per Hjalmar Lehne is Researcher in Telenor R&I and Editor-in-Chief of *Teletronikk*

This issue of *Teletronikk*'s status section contains three articles, all related to the *International Telecommunications Union – ITU*.

Two important global events for the wireless community took place in Geneva in October – November 2007. The *ITU-R Radiocommunication Assembly – RA-07* and the *World Radiocommunication Conference – WRC-07* take place very three to four years. Both these events are important because they lay the foundations for global common use of frequencies and wireless standards. *Anne Lise Lillebø, Terje Tjelta* and *Erik Otto Evenstad* have written two comprehensive reports from these two events.

The Radio Assembly provides the necessary technical basis for the WRC. One of the important decisions that were taken on the RA-07 was to approve Mobile WiMAX as a member of the IMT-family of 3G technologies.

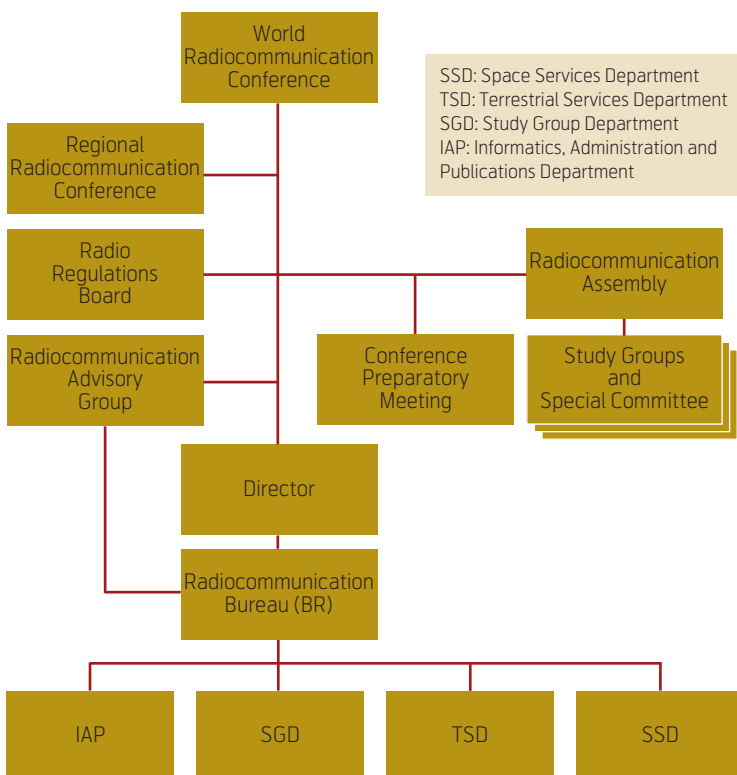
The World Radiocommunication Conference addressed the worldwide use of radio spectrum. The pressure is high for new frequencies for IMT, especially in the UHF and C-band.

The 470 – 862 MHz UHF band is currently used for terrestrial analogue broadcast services, but with the introduction of new digital technologies also here, the spectrum efficiency improves a lot. This releases a so-called “digital dividend” which is very attractive both for providing an increased amount of broadcast services and for terrestrial mobile services. The frequencies are very attractive due to the favourable properties for coverage and implementation. Parts of the UHF band were globally harmonized for IMT at WRC-07.

Other issues were on the satellite component of IMT and Fixed Satellite Services (FSS). Climate issues are of course also influencing ITU, both for Earth observation, disaster prediction and mitigation. Thus, the WRC adopted a new resolution on the use of ICT in emergency and disaster relief.

The third article is related to ITU work on Identity Management, in which the *X.500 Directory standard* is a key component. *Erik Andersen* has written about the X.500 in the context of Next Generation Networks (NGN). Readers will recall that the previous issue of *Teletronikk* (3/4.2007) was themed *Identity Management*, and we recommend reading more about the subject here.

Teletronikk has a long history in printing reports from ITU events and from different ITU study groups since 1927. Consult the web, <http://www.teletronikk.com> for an overview of reports since 1992.



The ITU-R organization

Per Hjalmar Lehne is Researcher at Telenor R&I and Editor-in-Chief of Teletronikk. He obtained his MSc from the Norwegian Institute of Science and Technology (NTH) in 1988. He has since been with Telenor R&I working with different aspects of terrestrial mobile communications. His work since 1993 has been in the area of radio propagation and access technology, especially on smart antennas for GSM and UMTS. He has participated in several RACE, ACTS and IST projects as well as COST actions in the field. His current interests are antennas and the use of MIMO technology in terrestrial mobile and wireless networks and on access network convergence.

email: per-hjalmar.lehne@telenor.com