



ITU-BDT Regional Network Planning Workshop with Tool Case Studies for the Arab Region

Cairo – Egypt, 16 - 27 July 2006



Advanced Program V.1

1) Seminar introduction and objectives

Background

Telecommunication networks architectures are changing to meet new requirements for a number of services/applications (Broadband, IP, Multimedia, mobile, etc.).

New generation equipment (soft switches, databases, service controllers, new protocols and interfaces, etc.) and new call/mix traffic cases are going to be introduced in the networks.

Different solutions/network architectures can be taken into account for a smooth transition from existing network infrastructures (PSTN/PLMN) towards NGN as a result of the convergence process leading to different applications/services sharing network infrastructures.

Network Planning Strategy

Considering the different solutions/network architectures that exist and the continuing evolution of telecommunication networks, each Network Planning case has to be analysed and dealt with by using more than just one planning tool. It means that maintaining and updating a unique tool is not the correct strategy to be applied for Network Planning.

Therefore, any real Network Planning case should be dealt with by using different powerful and modern tools available on the market.

Network planning activities evolve with the proper evolution of the network, the services, the technologies, the market and the regulatory environment. These evolutions imply a wider set of options to implement a network than in the past and as a consequence, the importance of careful planning and analysis for alternatives have larger impact on the network capabilities today in order to assure the needed capacities, the associated quality of service and the required investments.

Considering the initial status of the operator's network and the different solutions/network architectures that exist for the network evolution, each Network Planning case has to be analysed and dealt with by using a proper portfolio of planning tools and tool combinations.

Objectives

The workshop is addressed to network planning experts and managers from telecom operators, policy makers and regulators of developing countries and countries with economies in transition to present the Network Planning scenario and the related and appropriate Network Planning Tools needed for the development of their respective strategies for the evolution of the present network architectures and the transition to the next generation networks - NGN.

Practical case studies with the utilization of Planning Tools will be presented and developed during the Workshop by directly involving the participants.

2) Scheduling of the activities day by day

16 July 2006

Network Planning background

Network planning needs, types and processes

Network planning domains and requirements

17 July 2006

Planning tools description

STEM

MULTILINK

VPAccessmaker & Transportmaker

18-20 July 2006

Case studies and tool applications

Business Planning

- Planning tools capabilities
- Case studies for typical regional issues

Mobile planning

- Planning tools capabilities
- Case studies for typical regional issues

Note: mobile and radio planning shifting every half day (e.g. Morning STEM, Afternoon MULTILINK) and are shifting between tools in two different computer rooms

21 July 2006

Planning tools description

Participants' feedback and Q&A session

22-23 July: Holiday

24-27 July 2006

Case studies and tool applications

Fixed network planning: Access and National

- Planning tools capabilities
- Case studies for typical regional issues

27 July 2006

Reporting and closing

3) Logistic requirements and tools installation

Logistic Requirements

Conference Room with translation for the first two days (16-17 July)
Two computer rooms from 18 July. One room having 30 computers and another room having 13 computers. 1 computer each 3 Participants maximum is recommended.
One Projector in each computer room to be used by the trainers
Connection to Internet
Printing and copying facilities

Tools installation

To be done from respective tool lecturers

License files – obtained from Internet, E-mail or availability of hardware dongles in the framework of partnership agreement for training and trial between ITU and related companies