

Question 19-1/2: Strategy for migration from existing networks to next-generation networks for developing countries

1 Statement of the situation

Most of the existing switching networks, especially in developing countries, are circuit-switched based. Convergence of voice, data and video requires packet-switched networks.

Lack of resources in developing countries could lead to a delay in implementing packet-switched networks.

ITU-D can play an important role in assisting Member States and Sector Members in developing countries with the smooth evolution from existing networks to next-generation networks (NGN), taking into consideration that the standardization of these networks is embedded as a priority in the strategic plan of ITU-T.

2 Question for study

- 2.1 Trends of telecommunication networks towards NGN.
- 2.2 Examination of NGN technologies (network management, transport networks, access networks, interworking with existing networks, etc.).
- 2.3 Methodologies for planning, with taking into account the behaviour of different existing networks.
- 2.4 Migration solutions to NGN.

3 Expected output

- 3.1 Yearly progress report on NGN development.
- 3.2 A report of methodologies for planning NGN (multidimension planning process, services demand forecasting methods, traffic forecasting models, and structure and dimensioning optimization methods).
- 3.3 A set of guidelines for migration from existing networks to NGN.

4 Timing

During the next ITU-D study period, as soon as possible.

5 Proposers

All developing countries, in particular their telecommunication operators, and as a follow-up to the former Question.

6 Sources of input

- 6.1 Results of studies carried out by ITU-T study groups, in particular the Global Standards Initiative (GSI) for NGN.
- 6.2 Visions of national/regional organizations in developed countries, if any.
- 6.3 Experiences from administrations and operators of developed and developing countries in introducing NGN.
- 6.4 Experiences from telecommunication research centres and manufacturers.

7 Target audience

Target audience	Developed countries	Developing countries	Least developed countries (LDCs)
Telecom policy-makers	Yes	Yes	Yes
Telecom regulators	Yes	Yes	Yes
Service providers/operators	Yes	Yes	Yes
Manufacturers	Yes	Yes	Yes

a) Target audience

The main beneficiaries of this study will be the operators, regulators and manufactures from developing countries and LDCs.

An evolution strategy scenario will be needed by senior and middle management personnel of Member States and Sector Members.

b) Proposed methods for implementing the results

The strategy will be presented and discussed during meetings, at regional or national conferences.

The achieved results should be a basis for preparing lectures and presentations for workshops and seminars organized by ITU-D in developing countries.

8 Proposed methods of handling the Question

Within Study Group 2.

9 Coordination

Close coordination is required with the ITU-D programmes and the relevant ITU study groups.

10 Other relevant information

To be determined.
