

QUESTION ITU-R 275/4

Performance objectives of digital links in the fixed-satellite and mobile-satellite services forming elements of the Next Generation Network

(2009)

The ITU Radiocommunication Assembly,

considering

- a) that fixed-satellite and mobile-satellite systems may be part of the Next Generation Network (NGN);
- b) that an overview of the NGN is given in ITU-T Recommendations Y.2001 and Y.2011;
- c) that availability and performance criteria for transmission of NGN services and applications may have an impact on satellite link design;
- d) that new requirements for NGN protocols and applications are constantly appearing which may have an impact on satellite link design;
- e) that transmission of NGN traffic on satellite links may require performance objectives different from those contained in relevant ITU-T Recommendations and Recommendations ITU-R S.1062, ITU-R S.1420, ITU-R S.1711, ITU-R M.1475, ITU-R M.1476, ITU-R M.1636 and ITU-R M.1741;
- f) that the required system capacity and access schemes must be considered in the design and planning of NGN-based networks in the FSS and MSS,

recognizing

- a) that the FSS and MSS systems interwork with terrestrial systems;

decides that the following Questions should be studied

- 1** What are the satellite reference network architectures required to support the NGN?
- 2** What are the performance levels required of satellite links to support the various protocols running over the NGN?
- 3** What is the performance required of satellite links to support, NGN services and applications including voice, video, videotelephony and file transfer running over the NGN?
- 4** What are the needs for potential improvements to protocols within the NGN model that enhance their performance over satellite links?
- 5** What impact do NGN security provisions and related issues have on satellite link requirements?

6 What are the required system capacity and access schemes that must be considered in the design and planning of NGN-based networks in the FSS and MSS?

7 What arrangements should be made to offer the most appropriate liaison with other standards bodies recognized by the ITU-R, in accordance with Resolution ITU-R 9-3, and the ITU-T on the subject of NGN?

further decides

1 that the results of the above studies should lead to the formulation of appropriate Reports and/or Recommendations by 2012.

Category: S2