

I n t e r n a t i o n a l T e l e c o m m u n i c a t i o n U n i o n

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Y.2002

(10/2009)

SERIES Y: GLOBAL INFORMATION
INFRASTRUCTURE, INTERNET PROTOCOL ASPECTS
AND NEXT-GENERATION NETWORKS

Next Generation Networks – Frameworks and functional
architecture models

Overview of ubiquitous networking and of its support in NGN

Recommendation ITU-T Y.2002

ITU-T Y-SERIES RECOMMENDATIONS

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GENERATION NETWORKS**

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For further details, please refer to the list of ITU-T Recommendations.

Recommendation ITU-T Y.2002

Overview of ubiquitous networking and of its support in NGN

Summary

Recommendation ITU-T Y.2002 provides an overview of ubiquitous networking and of its support in NGN. This Recommendation describes objectives and fundamental characteristics of ubiquitous networking and identifies capabilities required for the support of ubiquitous networking in NGN.

Source

Recommendation ITU-T Y.2002 was approved on 29 October 2009 by ITU-T Study Group 13 (2009-2012) under Recommendation ITU-T A.8 procedures.

Keywords

Next generation network (NGN), ubiquitous networking.

FOREWORD

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Recommendation ITU-T Y.2002

Overview of ubiquitous networking and of its support in NGN

1 Scope

This Recommendation provides an overview of ubiquitous networking in NGN. More specifically, this Recommendation covers the following:

- definition of ubiquitous networking;
- objectives of ubiquitous networking;
- fundamental characteristics of ubiquitous networking;
- communication types required for ubiquitous networking;
- overview of the support of ubiquitous networking in NGN in terms of high-level capabilities and corresponding high-level architectural model.

The capabilities which are required for supporting ubiquitous networking in NGN and which are identified in this Recommendation need to be mapped to NGN capabilities as defined in [ITU-T Y.2201]. This mapping is provided in Appendix I.

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

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|----------------|---|
| [ITU-T Q.1300] | Recommendation ITU-T Q.1300 (1995), <i>Telecommunication applications for switches and computers (TASC) – General overview.</i> |
| [ITU-T Y.2001] | Recommendation ITU-T Y.2001 (2004), <i>General overview of NGN.</i> |
| [ITU-T Y.2011] | Recommendation ITU-T Y.2011 (2004), <i>General principles and general reference model for Next Generation Networks.</i> |
| [ITU-T Y.2012] | Recommendation ITU-T Y.2012 (2006), <i>Functional requirements and architecture of the NGN release 1.</i> |
| [ITU-T Y.2201] | Recommendation ITU-T Y.2201 (2009), <i>Requirements and capabilities for ITU-T NGN.</i> |
| [ITU-T Y.2701] | Recommendation ITU-T Y.2701 (2007), <i>Security requirements for NGN release 1.</i> |
| [ITU-T Y.2702] | Recommendation ITU-T Y.2702 (2008), <i>Authentication and authorization requirements for NGN release 1.</i> |