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MULTIMEDIA SIGNALS

IPCablecom

Specifications for authentication in preferential telecommunications over IPCablecom2 networks

Recommendation ITU-T J.262



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Recommendation ITU-T J.262

Specifications for authentication in preferential telecommunications over IPCom networks

Summary

Recommendation ITU-T J.262 is one of a series of Recommendations to enable support for preferential telecommunication services over IPCom networks. It defines the specifications for authentication in preferential telecommunications over IPCom networks. These specifications satisfy the requirements defined in Recommendation ITU-T J.260. The essential aspects of preferential telecommunications over IPCom can be grouped into two areas: prioritization and authentication. This Recommendation defines specifications for authentication only. Authentication must be utilized to prevent unauthorized use of premium services and for emergency services in IPCom that may require preferential treatment (e.g., telecommunications for disaster relief and the emergency telecommunications service).

User authentication is necessary to determine whether to authorize a request for preferential telecommunication services. This Recommendation covers only authentication and does not address which services the authenticated user is authorized to use.

Source

Recommendation ITU-T J.262 was approved on 30 October 2009 by ITU-T Study Group 9 (2009-2012) under the WTSA Resolution 1 procedure.

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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Introduction

Emergency and disaster communications for authorized users play a vital role in the health, safety, and welfare of people in all countries. The common thread to facilitate emergency/disaster operations is the utility of assured capabilities for user-friendly preferential telecommunication services that may be realized by technical solutions and/or administrative policy. The IPCablecom infrastructure offers an important resource for assured emergency/disaster telecommunications.

Emergency and disaster situations can impact telecommunication infrastructures. Typical impacts may include congestion overload and the need to re-deploy or extend communications capabilities beyond that covered by existing infrastructures. Even when telecommunication infrastructures are not damaged by these situations, demand for telecommunication resources soar during such events. Therefore, priority mechanisms are needed so that limited bandwidth resources can be allocated to authorized emergency workers during emergency and disaster situations.

Generally, when preferential or prioritized treatment telecommunication capabilities are offered, users of the service will be authenticated and authorized. Whether authentication and authorization are required or not, as well as implementation aspects, such as databases for personal identification numbers (PIN), are national decisions. However, without authentication and authorization, preferential treatment capabilities may be subject to abuse by non-authorized individuals.

This Recommendation defines specifications stemming from the requirements of Recommendation ITU-T J.260 for mechanisms to provide authentication in IPCablecom2 networks in support of preferential telecommunication services that need or benefit from preferential treatment.

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