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**ITU-T**

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STANDARDIZATION SECTOR  
OF ITU

**D.286**

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SERIES D: GENERAL TARIFF PRINCIPLES

General tariff principles – Charging and accounting  
principles for intelligent network supported services

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**Charging and accounting principles for the  
global virtual network service**

ITU-T Recommendation D.286

(Previously CCITT Recommendation)

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## **ITU-T RECOMMENDATION D.286**

### **CHARGING AND ACCOUNTING PRINCIPLES FOR THE GLOBAL VIRTUAL NETWORK SERVICE**

#### **Source**

ITU-T Recommendation D.285 was prepared by ITU-T Study Group 3 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 1st of July 1996.

## FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

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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## **Recommendation D.286**

### **CHARGING AND ACCOUNTING PRINCIPLES FOR THE GLOBAL VIRTUAL NETWORK SERVICE**

*(Geneva, 1996)*

#### **1 Preamble**

This Recommendation covers general principles for charging, accounting, billing and settlements procedures for the provision of a set of Global Virtual Network Service (GVNS) features as defined in Recommendation F.16.

#### **2 Scope of Recommendation**

The Global Virtual Network Service (GVNS) is a multi-network international service which provides private network functions to users at geographically dispersed international locations while minimizing the need for dedicated network resources. It may be offered to customers over the PSTN or ISDN.

The Global Virtual Network Service is a feature-rich communications service. It provides the functions typically associated with the private networks, but utilizing the public switched network(s). The customer's network configuration is defined per the customer's direction using customer-specific service information resident in multiple networks. The network configurations may be administered by the customer directly, by the GVNS participating service provider, and/or by the GVNS coordinator.

#### **3 General**

**3.1** Charging arrangements should be flexible to enable the provision of a full range of service capabilities. The participating service provider may choose to offer a special GVNS call charge as part of the service, e.g. lower per call charges and/or volume discounts.

**3.2** GVNS customers will subscribe with the GVNS provider(s) for national and/or international services.

**3.3** GVNS users may be located in one or more networks and may interwork with private network resources.

**3.4** GVNS may be also accessed by remote locations not identified as a part of the GVNS in the service provisions, provided that identification, validation and authorization procedures are complied with.

**3.5** The participating network service providers should collect and store the data related to GVNS calls for charging, billing, accounting and settlement purposes.

**3.6** GVNS provision and operation, including billing, settlements and reimbursements may be done under the provisions of One Stop Shopping (see Recommendation F.14 ), or under other special arrangements which may be bilaterally or multilaterally agreed.

**3.7** In developing charging and accounting arrangements for GVNS, account should be taken of the relevant features that are necessary to provide the service. Those related to IN may be found in Recommendation D.285.

## **4 Charging**

### **4.1 General**

Charging for GVNS is a national matter.

### **4.2 Subscription/service initiation**

GVNS subscription charges cover the subscription to, and establishment of GVNS. These subscription charges may be in the form of an initial non-recurring charge, a recurring charge or both.

### **4.3 Access to GVNS**

#### **4.3.1 International dedicated access to GVNS**

Charges for international dedicated access to GVNS should be based on the leased circuit charging principles applicable to the specific access type. Such access would be subject to the regulatory provisions established nationally (see Recommendations D.1 and D.3).

#### **4.3.2 International switched and remote access to GVNS**

Charges for international switched and remote access calls to GVNS should be based on the relevant tariffs for comparable calls made in a non-GVNS environment.

### **4.4 GVNS utilization for international calls**

#### **4.4.1 On-net calls as defined in Recommendation F.16**

Charging for on-net calls is based on the GVNS tariff of the appropriate GVNS service provider.

#### **4.4.2 Off-net calls as defined in Recommendation F.16**

Charging for off-net calls should be based on the relevant tariffs for comparable calls in a non-GVNS environment.

### **4.5 Charges related to other service features such as:**

- customized announcements;
- configuration management;
- performance monitoring;
- supplementary services; and
- variation of configuration, e.g. activation of new location/stations, and registration and configuration setting on per customer's direction,

are for further study.

## **5 Accounting**

### **5.1 Subscription/service initiation**

International accounting is not applicable to GVNS subscription charges.



## **5.2 Access to GVNS**

### **5.2.1 General**

There is no international accounting for domestic dedicated, switched, or remote access to GVNS.

### **5.2.2 International dedicated access to GVNS**

Since dedicated access is provided on a leased circuit basis, there is no international accounting for GVNS calls on a dedicated access.

### **5.2.3 International switched and remote access to GVNS**

International switched or remote access traffic to GVNS is accounted as though it were to a non-GVNS destination.

## **5.3 GVNS utilization for international calls**

### **5.3.1 On-net calls**

The accounting rate(s) for the on-net traffic should be bilaterally agreed between the GVNS providers concerned.

### **5.3.2 Off-net calls**

Off-net calls should be accounted as calls in a non-GVNS environment.

## **5.4 Accounting for related other service features such as:**

- customized announcements;
- configuration management;
- performance monitoring; and
- supplementary services,

is for further study.

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