



INTERNATIONAL TELECOMMUNICATION UNION

# ITU-T

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

# V.59

**Corrigendum 1**  
(07/2001)

SERIES V: DATA COMMUNICATION OVER THE  
TELEPHONE NETWORK

Transmission quality and maintenance

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Managed objects for diagnostic information of public  
switched telephone network connected V-series  
modem DCEs

**Corrigendum 1**

ITU-T Recommendation V.59 – Corrigendum 1

(Formerly CCITT Recommendation)

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## **ITU-T Recommendation V.59**

### **Managed objects for diagnostic information of public switched telephone network connected V-series modem DCEs**

#### **CORRIGENDUM 1**

#### **Summary**

Corrigendum 1 to V.59 has various modifications for clarifications of ITU-T V.59.

#### **Source**

Corrigendum 1 to ITU-T Recommendation V.59 was prepared by ITU-T Study Group 16 (2001-2004) and approved under the WTSA Resolution 1 procedure on 29 July 2001.

## FOREWORD

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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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## ITU-T Recommendation V.59

### Managed objects for diagnostic information of public switched telephone network connected V-series modem DCEs

#### CORRIGENDUM 1

##### 1) **Clause 5 – Clarification that V.59 uses X.691 PER**

Although it is implied by the inclusion of the reference to ITU-T X.691, V.59 does not explicitly indicate which Packet Encoding Rules should be used. A clarification is essential since it defines how to encode the various data types.

The following sentence is to be added to the end of the final paragraph of clause 5 just prior to 5.1.

*[ORIGINAL TEXT]*

The presentation of the managed objects within this Recommendation complies with the specification of ASN.1 (see ITU-T X.680). The ASN.1 as defined in Annex A should be used in conjunction with the object definitions to provide a complete overview of the diagnostics.

*[END ORIGINAL]*

*[REPLACEMENT TEXT]*

The presentation of the managed objects within this Recommendation complies with the specification of ASN.1 (see ITU-T X.680). The ASN.1 as defined in Annex A should be used in conjunction with the object definitions to provide a complete overview of the diagnostics. The ASN.1 encoding in Annex A should employ the BASIC-ALIGNED version of Packed Encoding Rules (PER) according to ITU-T X.691.

*[END REPLACEMENT]*

##### 2) **Clause 6.2 – Clarify the interpretation of ASN.1 built-in definitions**

This modification further clarifies how to interpret the various built-in definitions of the ASN.1 used in ITU-T V.59, such as the types BOOLEAN, INTEGER, NULL etc.

The following paragraph replaces the one similar that is the first in 6.2:

*[ORIGINAL TEXT]*

The data types used in this Recommendation are based upon those defined in ASN.1. For types defined as an IA5 STRING (International Alphabet No. 5), the following string types are used.

*[END ORIGINAL]*

*[REPLACEMENT TEXT]*

The data types used in this Recommendation are based upon those defined in ASN.1. For details to the encoding of the ASN.1 built-in data types refer to ITU-T X.691. For types defined as an IA5 STRING (International Alphabet No. 5), the following string types are used.

*[END REPLACEMENT]*

### 3) **Clause 6.2.3 – Clarify the definition of Bit Strings**

In 6.2.3 that provides the definition of the Bit String data type, no guidance as to the ordering of the bits is given. The following text should be used to replace that of 6.2.3:

*[ORIGINAL TEXT]*

#### **6.2.3 BIT STRING**

Where BIT STRING is used to identify an object a 0 indicates non-availability or disabled, a 1 indicates availability or enabled.

*[END ORIGINAL]*

*[REPLACEMENT TEXT]*

#### **6.2.3 BIT STRING**

Where BIT STRING is used to identify an object a 0 indicates non-availability or disabled, a 1 indicates availability or enabled. Bit Strings containing multiple elements shall be displayed using bit 0 in the least significant bit position.

Example

*v42featureNegotiation{000000000001}*, where the 1 is the value of the zero-eth bit.

*[END REPLACEMENT]*

### 4) **Clause 6.8.5 – Correct typographical error in V.92 objects definition table**

In 6.8.5 for the table of V.92 modulation objects, the Tag-ID definition of the cP object is missing its last digit.

*[ORIGINAL TEXT]*

cP 0B5

*[END ORIGINAL]*

*[REPLACEMENT TEXT]*

cP 0B54

*[END REPLACEMENT]*

### 5) **Clause 6.9 – Clarification of the definition of txCarrier and rxCarrier low level objects**

The descriptions for the low level objects txCarrier and rxCarrier are vague and are not differentiated between themselves and the modulationHistory object. The intent of these objects was that the 'carrier' objects would not be a list, but rather the indicator of the modulation employed by the transmitter and receiver at the end of the connection.

The following text needs to replace that used for the descriptions of the txCarrier and rxCarrier objects (Tag-ID's 2C01 and 2C02) in 6.9 (Connection Diagnostic Object Attributes).

*[ORIGINAL TEXT]*

*Object:* txCarrier

*Tag-ID:* 01

*Description:* This object is a text string that is used in the same manner as defined in 6.4.1 and Table 13/V.250.

*Data type:* IA5STRING:simpleText

*Mandatory:* Yes

*Object:* rxCarrier

*Tag-ID:* 02

*Description:* This object performs the same function as described in txCarrier above and it uses the same definition.

*Data type:* IA5STRING:simpleText

*Mandatory:* Yes

*[END ORIGINAL]*

*[REPLACEMENT TEXT]*

*Object:* txCarrier

*Tag-ID:* 01

*Description:* This object contains the modulation last used by the transmitter in the connection and is a text string that is used in the same manner as defined in 6.4.1 and Table 13/V.250.

*Data type:* IA5STRING:simpleText

*Mandatory:* Yes

*Object:* rxCarrier

*Tag-ID:* 02

*Description:* This object performs the same function as described in txCarrier above except that it applies to the receiver and it uses the same definition.

*Data type:* IA5STRING:simpleText

*Mandatory:* Yes

*[END REPLACEMENT]*







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