



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.831

Corrigendum 1
(03/2001)

SERIES Q: SWITCHING AND SIGNALLING

Q3 interface

Fault and performance management of V5 interface
environments and associated customer profiles

Corrigendum 1

ITU-T Recommendation Q.831 – Corrigendum 1

(Formerly CCITT Recommendation)

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ITU-T Recommendation Q.831

Fault and performance management of V5 interface environments and associated customer profiles

CORRIGENDUM 1

Summary

This corrigendum corrects defects identified in ITU-T Q.831 (1997). It includes a table providing the relation between the defects and the corrections. These corrections are specified as changes to existing clauses of ITU-T Q.831 (1997).

Source

Corrigendum 1 to ITU-T Recommendation Q.831 was prepared by ITU-T Study Group 4 (2001-2004) and approved under the WTSA Resolution 1 procedure on 1 March 2001.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. 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 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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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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ITU-T Recommendation Q.831

Fault and performance management of V5 interface environments and associated customer profiles

CORRIGENDUM 1

1 Introduction

This corrigendum corrects a number of defects to ITU-T Q.831 that have previously been documented and resolved in the Q.830 series Plus Implementors' Guide Version 1.0. This corrigendum replaces the Implementors' Guide as the authoritative source. However, the defects corrected in this corrigendum will be reflected in the Implementors' Guide until this corrigendum has been published.

Additional defects and resolutions will again be recorded in the Implementors' Guide and finally be published in an additional corrigendum or a revision of ITU-T Q.831.

2 Resolved defects

This corrigendum corrects the following defects reported against ITU-T Q.831 (1997):

Defect number	Issue	Correction No.
DR-Q831-1	Inconsistency in severity of error report	4
DR-Q831-2	Misalignment in references to supporting Recs.	1, 2
DR-Q831-3	Illegal ASN.1 syntax	3
DR-Q831-4	Illegal ASN.1 syntax	3
DR-Q831-5	Illegal ASN.1 syntax	3
DR-Q831-6	Illegal register definition	3

1) Clause 6.1.1.4.2 "Bearer channel history data"

Correct the reference to ITU-T X.721 in the GDMO to read:

"ITU-T Recommendation X.721":attributeValueChange;;;

2) Clause 6.1.1.4.4 "Communication channel history data"

Correct the reference to ITU-T X.721 in the GDMO to read:

"ITU-T Recommendation X.721": attributeValueChange;;;

3) Clause 6.8 "ASN.1 defined types module"

Modify:

**Layer3PortAddress,
FROM ASN1CMLETypeModule
itu-t(0) recommendation(0) q(17) ca(824) dot(127) v5interface(5) informationModel(0)
asn1Module(2) asn1TypeModule(0)}**

to read:

```
Layer3PortAddress
FROM ASN1CMLETypeModule
{itu-t(0) recommendation(0) q(17) ca(824) dot(127) v5interface(5) informationModel(0)
asn1Module(2) asn1TypeModule(0)}
```

Modify:

bccProtocolDataLinkError	SpecificProblems ::= {{v5SpecificProblems 1}}
bccProtocolSyntaxError	SpecificProblems ::= {{v5SpecificProblems 2}}
bccProtocolTimeOutError	SpecificProblems ::= {{v5SpecificProblems 3}}
cessationOfFlagsError	SpecificProblems ::= {{v5SpecificProblems 4}}
commonControlProtocolDataLinkError	SpecificProblems ::= {{v5SpecificProblems 5}}
commonControlProtocolSyntaxError	SpecificProblems ::= {{v5SpecificProblems 6}}
commonControlProtocolTimeOutError	SpecificProblems ::= {{v5SpecificProblems 7}}
crcError	SpecificProblems ::= {{v5SpecificProblems 8}}
internalFailure	SpecificProblems ::= {{v5SpecificProblems 9}}
isdnLayer1ActivationFault	SpecificProblems ::= {{v5SpecificProblems 10}}
isdnLayer2Fault	SpecificProblems ::= {{v5SpecificProblems 11}}
isdnLayer3Fault	SpecificProblems ::= {{v5SpecificProblems 12}}
linkControlProtocolDataLinkError	SpecificProblems ::= {{v5SpecificProblems 13}}
linkControlProtocolLayer3AddressError	SpecificProblems ::= {{v5SpecificProblems 14}}
linkControlProtocolOutOfService	SpecificProblems ::= {{v5SpecificProblems 15}}
linkControlProtocolSyntaxError	SpecificProblems ::= {{v5SpecificProblems 16}}
linkControlProtocolTimeOutError	SpecificProblems ::= {{v5SpecificProblems 17}}
linkIdFailure	SpecificProblems ::= {{v5SpecificProblems 18}}
portControlProtocolError	SpecificProblems ::= {{v5SpecificProblems 19}}
portControlProtocolLayer3AddressError	SpecificProblems ::= {{v5SpecificProblems 20}}
portControlProtocolSyntaxError	SpecificProblems ::= {{v5SpecificProblems 21}}
portControlProtocolTimeOutError	SpecificProblems ::= {{v5SpecificProblems 22}}
protectionProtocolDataLinkError	SpecificProblems ::= {{v5SpecificProblems 23}}
protectionProtocolSyntaxError	SpecificProblems ::= {{v5SpecificProblems 24}}
protectionProtocolTimeOutError	SpecificProblems ::= {{v5SpecificProblems 25}}
pstnProtocolDataLinkError	SpecificProblems ::= {{v5SpecificProblems 26}}
pstnProtocolLayer3AddressError	SpecificProblems ::= {{v5SpecificProblems 27}}
pstnProtocolSyntaxError	SpecificProblems ::= {{v5SpecificProblems 28}}
pstnProtocolTimeOutError	SpecificProblems ::= {{v5SpecificProblems 29}}
v5InterfaceIdFailure	SpecificProblems ::= {{v5SpecificProblems 30}}
v5InterfaceProvisioningMismatchFailure	SpecificProblems ::= {{v5SpecificProblems 31}}
losLofAtDSLopAtNT1	SpecificProblems ::= {{v5SpecificProblems 32}}
losLofAtT	SpecificProblems ::= {{v5SpecificProblems 33}}
loopBackUnintentional	SpecificProblems ::= {{v5SpecificProblems 34}}
powerFeedingFailure	SpecificProblems ::= {{v5SpecificProblems 35}}

to read:

bccProtocolDataLinkError	SpecificProblems ::= {oi : {v5SpecificProblems 1}}
bccProtocolSyntaxError	SpecificProblems ::= {oi : {v5SpecificProblems 2}}
bccProtocolTimeOutError	SpecificProblems ::= {oi : {v5SpecificProblems 3}}
cessationOfFlagsError	SpecificProblems ::= {oi : {v5SpecificProblems 4}}
commonControlProtocolDataLinkError	SpecificProblems ::= {oi : {v5SpecificProblems 5}}
commonControlProtocolSyntaxError	SpecificProblems ::= {oi : {v5SpecificProblems 6}}
commonControlProtocolTimeOutError	SpecificProblems ::= {oi : {v5SpecificProblems 7}}
crcError	SpecificProblems ::= {oi : {v5SpecificProblems 8}}
internalFailure	SpecificProblems ::= {oi : {v5SpecificProblems 9}}
isdnLayer1ActivationFault	SpecificProblems ::= {oi : {v5SpecificProblems 10}}
isdnLayer2Fault	SpecificProblems ::= {oi : {v5SpecificProblems 11}}
isdnLayer3Fault	SpecificProblems ::= {oi : {v5SpecificProblems 12}}
linkControlProtocolDataLinkError	SpecificProblems ::= {oi : {v5SpecificProblems 13}}
linkControlProtocolLayer3AddressError	SpecificProblems ::= {oi : {v5SpecificProblems 14}}
linkControlProtocolOutOfService	SpecificProblems ::= {oi : {v5SpecificProblems 15}}
linkControlProtocolSyntaxError	SpecificProblems ::= {oi : {v5SpecificProblems 16}}
linkControlProtocolTimeOutError	SpecificProblems ::= {oi : {v5SpecificProblems 17}}

linkIdFailure	SpecificProblems ::= {oi : {v5SpecificProblems 18}}
portControlProtocolError	SpecificProblems ::= {oi : {v5SpecificProblems 19}}
portControlProtocolLayer3AddressError	SpecificProblems ::= {oi : {v5SpecificProblems 20}}
portControlProtocolSyntaxError	SpecificProblems ::= {oi : {v5SpecificProblems 21}}
portControlProtocolTimeOutError	SpecificProblems ::= {oi : {v5SpecificProblems 22}}
protectionProtocolDataLinkError	SpecificProblems ::= {oi : {v5SpecificProblems 23}}
protectionProtocolSyntaxError	SpecificProblems ::= {oi : {v5SpecificProblems 24}}
protectionProtocolTimeOutError	SpecificProblems ::= {oi : {v5SpecificProblems 25}}
pstnProtocolDataLinkError	SpecificProblems ::= {oi : {v5SpecificProblems 26}}
pstnProtocolLayer3AddressError	SpecificProblems ::= {oi : {v5SpecificProblems 27}}
pstnProtocolSyntaxError	SpecificProblems ::= {oi : {v5SpecificProblems 28}}
pstnProtocolTimeOutError	SpecificProblems ::= {oi : {v5SpecificProblems 29}}
v5InterfaceIdFailure	SpecificProblems ::= {oi : {v5SpecificProblems 30}}
v5InterfaceProvisioningMismatchFailure	SpecificProblems ::= {oi : {v5SpecificProblems 31}}
losLofAtDSLopAtNT1	SpecificProblems ::= {oi : {v5SpecificProblems 32}}
losLofAtT	SpecificProblems ::= {oi : {v5SpecificProblems 33}}
loopBackUnintentional	SpecificProblems ::= {oi : {v5SpecificProblems 34}}
powerFeedingFailure	SpecificProblems ::= {oi : {v5SpecificProblems 35}}

Modify:

lossOfFrameLossOfSignal	ProbableCause ::= globalValue {v5ProbableCause 1}
unintentionalLoopBack	ProbableCause ::= globalValue {v5ProbableCause 2}

to read:

lossOfFrameLossOfSignal	ProbableCause ::= globalValue : {v5ProbableCause 1}
unintentionalLoopBack	ProbableCause ::= globalValue : {v5ProbableCause 2}

4) Subclause A.1.7 "V5 data link failures"

Modify:

Event:	Persistent protection protocol data link failures.
Reference:	V5.1 and V5.2: subclauses 10.4.1, 10.4.5.1.3 and C.17/G.964 [8].
Managed Object Class:	v5Interface and subclasses.
Event Type:	communicationsAlarm.
Probable Cause:	communicationsSubsystemFailure (CCITT Rec. X.721 ISO/IEC 10165-2 [21]).
Specific Problems:	protectionProtocolDataLinkError.
Perceived Severity:	critical.

to read:

Event:	Persistent protection protocol data link failures.
Reference:	V5.1 and V5.2: subclauses 10.4.1, 10.4.5.1.3 and C.17/G.964 [8].
Managed Object Class:	v5Interface and subclasses.
Event Type:	communicationsAlarm.
Probable Cause:	communicationsSubsystemFailure (ITU-T Rec. X.721 ISO/IEC 10165-2 [21]).
Specific Problems:	protectionProtocolDataLinkError.
Perceived Severity:	critical (when both data links fail). warning (when only one data link fails).

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