

Superseded by a more recent version



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.821

Corrigendum 1

(03/99)

SERIES Q: SWITCHING AND SIGNALLING

Specifications of Signalling System No. 7 – Q3 interface

Stage 2 and stage 3 description for the
Q3 interface – Alarm surveillance

Corrigendum 1

ITU-T Recommendation Q.821 – Corrigendum 1
Superseded by a more recent version

(Previously CCITT Recommendation)

Superseded by a more recent version

ITU-T Q-SERIES RECOMMENDATIONS

SWITCHING AND SIGNALLING

SIGNALLING IN THE INTERNATIONAL MANUAL SERVICE	Q.1–Q.3
INTERNATIONAL AUTOMATIC AND SEMI-AUTOMATIC WORKING	Q.4–Q.59
FUNCTIONS AND INFORMATION FLOWS FOR SERVICES IN THE ISDN	Q.60–Q.99
CLAUSES APPLICABLE TO ITU-T STANDARD SYSTEMS	Q.100–Q.119
SPECIFICATIONS OF SIGNALLING SYSTEMS No. 4 AND No. 5	Q.120–Q.249
SPECIFICATIONS OF SIGNALLING SYSTEM No. 6	Q.250–Q.309
SPECIFICATIONS OF SIGNALLING SYSTEM R1	Q.310–Q.399
SPECIFICATIONS OF SIGNALLING SYSTEM R2	Q.400–Q.499
DIGITAL EXCHANGES	Q.500–Q.599
INTERWORKING OF SIGNALLING SYSTEMS	Q.600–Q.699
SPECIFICATIONS OF SIGNALLING SYSTEM No. 7	Q.700–Q.849
General	Q.700
Message transfer part (MTP)	Q.701–Q.709
Signalling connection control part (SCCP)	Q.711–Q.719
Telephone user part (TUP)	Q.720–Q.729
ISDN supplementary services	Q.730–Q.739
Data user part	Q.740–Q.749
Signalling System No. 7 management	Q.750–Q.759
ISDN user part	Q.760–Q.769
Transaction capabilities application part	Q.770–Q.779
Test specification	Q.780–Q.799
Q3 interface	Q.800–Q.849
DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1	Q.850–Q.999
PUBLIC LAND MOBILE NETWORK	Q.1000–Q.1099
INTERWORKING WITH SATELLITE MOBILE SYSTEMS	Q.1100–Q.1199
INTELLIGENT NETWORK	Q.1200–Q.1999
BROADBAND ISDN	Q.2000–Q.2999

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

Superseded by a more recent version

ITU-T RECOMMENDATION Q.821

STAGE 2 AND STAGE 3 DESCRIPTION FOR THE Q3 INTERFACE – ALARM SURVEILLANCE

CORRIGENDUM 1

Summary

This corrigendum corrects defects identified in Recommendation Q.821 (1993). It includes a table providing the relation between the defects and the corrections. These corrections are specified as changes to existing clauses of Recommendation Q.821 (1993).

Source

Corrigendum 1 to ITU-T Recommendation Q.821, was prepared by ITU-T Study Group 4 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 26th of March 1999.

Superseded by a more recent version

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.

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 term *recognized operating agency (ROA)* includes any individual, company, corporation or governmental organization that operates a public correspondence service. The terms *Administration*, *ROA* and *public correspondence* are defined in the *Constitution of the ITU (Geneva, 1992)*.

INTELLECTUAL PROPERTY RIGHTS

The ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. The ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, the 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.

© ITU 1999

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the ITU.

Superseded by a more recent version

Introduction

This corrigendum corrects a number of defects to Recommendation Q.821 that have previously been documented and resolved in the Q.821 Implementors' Guide. This corrigendum replaces the relevant parts in the Implementors' Guide as the authoritative source. However, the Implementors' Guide will be available on the ITU-T server 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 Recommendation Q.821.

Resolved defects

This corrigendum corrects the following defects reported against Recommendation Q.821 (1993). Defect numbers were taken from the Q.82X-series Implementors' Guide and the resolution and the items of the corrigendum.

Defect number	Issue	Resolution No.
DR-Q821-1	The current Q.821 alarm surveillance model does not support name binding to subclasses of Managed Element	9
DR-Q821-2	DestinationAddress not redundant with destinationAddress in EFD	3
DR-Q821-3	There must exist a way to set the Q.821 destinationAddress	7
DR-Q821-4	Split of Schedule and Request Current Alarm Summary	2, 4
DR-Q821-5	Missing functions under "Enhanced Alarm Report Control"	4
DR-Q821-6	Incorrect reference for "Basic Log Control" and "Enhanced Log Control"	4
DR-Q821-7	Incorrect Alarm Reporting function	5
DR-Q821-8	Unrecognized attribute reference	8
DR-Q821-9	Unrecognized ASN.1 Module reference for M.3100	10
DR-Q821-10	Incorrect reference to X.227 (ACSE-1)	11
DR-Q821-11	Illegal OBJECT IDENTIFIER value	12
DR-Q821-12	Identifiers are required on all components of a SEQUENCE type	13
DR-Q821-13	Illegal ASN.1 identifier	14
DR-Q821-14	Illegal ASN.1 construction	15
DR-Q821-15	Illegal ASN.1 syntax	16
DR-Q821-16	Incorrect Object Classes for Functional Units "Alarm Report Retrieval" and "Alarm Report Deletion"	4
DR-Q821-17	Incorrect Function "Delete Alarm Report"	4, 6
DR-Q821-18	Incorrect reference to X.701	1

Superseded by a more recent version

Recommendation Q.821

STAGE 2 AND STAGE 3 DESCRIPTION FOR THE Q3 INTERFACE – ALARM SURVEILLANCE

CORRIGENDUM 1

(Geneva, 1999)

1 Modify clause 4 "Conventions", as follows:

Replace the reference explaining code P to read:

P Subject to the constraints imposed on the parameter by [6]

2 Replace subclauses 5.1.2.4 and 5.1.2.5 with the following four subclauses:

5.1.2.4 Schedule Current Alarm Summary

TMN specifies a schedule for the NE to establish for the reporting of Current Alarm Summaries. The schedule information specifies when it should be reported.

5.1.2.5 Condition Current Alarm Summary

TMN specifies a condition for the NE to establish for the reporting of Current Alarm Summaries. The condition information specifies what should be reported.

5.1.2.6 Request Current Alarm Summary Schedule

TMN requests NE to send the current schedule information for Current Alarm Summary reporting; NE responds with the schedule information.

5.1.2.7 Request Current Alarm Summary Condition

TMN requests NE to send the current condition information for Current Alarm Summary reporting; NE responds with the condition information.

Consequently, the existing subclauses 5.1.2.6 and 5.1.2.7 will be renumbered as 5.1.2.8 and 5.1.2.9 respectively.

3 Modify 5.2.2.2 "Management Operations Schedule", as follows:

Add behind item e) the following text:

This destinationAddress is not redundant with destinationAddress in EFD. It is used for the purpose of current alarm summary, to define the destination of the report containing the current alarm summary.

Superseded by a more recent version

4 Modify 5.3 "Alarm Surveillance Service Definition", Table 6/Q.821, as follows:

Replace Table 6/Q.821 with:

Table 6/Q.821 – Alarm Surveillance Fus, Services, Object Classes, and Functions

Functional unit	Service(s)	Object class(es)	Function(s)
Kernel	Alarm Reporting	Event Forwarding Discriminator	Report Alarm
Basic Alarm Report Control	Suspend/Resume Alarm Reporting	Event Forwarding Discriminator	Inhibit/Allow Alarm Reporting
Enhanced Alarm Report Control	Initiate/Terminate Alarm Reporting Set/Get Event Forwarding Discriminator	Event Forwarding Discriminator	Condition alarm Reporting Route Alarm Report Request Alarm Report Route Request Alarm Report Control Condition
Alarm Report Retrieval	Alarm Report Retrieving	Alarm Record	Request Alarm Report History
Alarm Report Deletion	Alarm Report Deleting	Alarm Record	Delete Alarm Report History
Current Alarm Summary Reporting	Current Alarm Summary Reporting	Management Operations Schedule Current Alarm Summary Control	Report Current Alarm Summary
Basic Management Operations Scheduling	Suspend/Resume Management Operations Schedule	Management Operations Schedule	Inhibit/Allow Current Alarm Summary
Enhanced Management Operations Scheduling	Initiate/Terminate/ Set/Get Management Operations schedule	Management Operations Schedule	Schedule Current Alarm Summary Route Current Alarm Summary Request Current Alarm Summary Schedule Request Current Alarm Summary Route
Current Alarm Summary Reporting Control	Initiate/Terminate/ Set/Get Current Alarm Summary Control	Current Alarm Summary Control	Condition Current Alarm Summary Request Current Alarm Summary Condition
Current Alarm Summary Retrieval	Retrieve Current Alarm Summary	Current Alarm Summary Control	Request Current Alarm Summary
Alarm Event Criteria Management	Initiate/ Terminate/ Set/Get Alarm Severity Assignment Profile	Alarm Severity Assignment Profile	Condition Alarm Event Criteria Request Alarm Event Criteria

Superseded by a more recent version

Table 6/Q.821 – Alarm Surveillance Fus, Services, Object Classes, and Functions (*concluded*)

Functional unit	Service(s)	Object class(es)	Function(s)
Alarm Indication Management	Inhibit/Allow Audible and Visual Local Alarms, Reset Audible Alarm	Managed Element or its subclasses	Inhibit/Allow Audible and Visual Local Alarms, Reset Audible Alarm
Basic Log Control	Suspend/Resume Logging	Log	Inhibit/Allow Logging
Enhanced Log Control	Initiate/Terminate Log Set/Get Log	Log	Condition Logging Request Log Condition

5 Modify 5.3.3.4 "Get Event Forwarding Discriminator Service", as follows:

Replace the last sentence of the first paragraph with:

This service supports the Request Alarm Report Control Condition and Request Alarm Report function identified in 5.1.

6 Modify 5.3.5.1 "Alarm Report Deleting Service", as follows:

Replace the last sentence of the first paragraph with:

This service supports the Delete Alarm Report History Function described in 5.1.

7 Modify A.1.2 "Management Operations Schedule", as follows:

Add behind

destinationAddress

GET,

the following comment:

-- As this attribute is 'GET' only, the way to set the Q.821 destinationAddress is to
-- re-create an instance of managementOperationsSchedule with the new
-- destinationAddress(es).

8 Modify A.1.2 "Management Operations Schedule", as follows:

correct the spelling error in

GET-REPLACE,
scheduled

with

GET-REPLACE,
scheduleId

Superseded by a more recent version

9 Modify in A.3 Name-Bindings for currentAlarmSummaryControl and managementOperationsSchedule, as follows:

currAlarmSumControl-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS currentAlarmSummaryControl AND
SUBCLASSES;
NAMED BY SUPERIOR OBJECT CLASS "ITU-T Rec. M.3100:1995":
managedElement AND SUBCLASSES;
WITH ATTRIBUTE currentAlarmSummaryControlId;
CREATE;
DELETE
DELETES-CONTAINED-OBJECTS;

REGISTERED AS { q821NameBinding 1 };

managementOperationsSchedule-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS managementOperationsSchedule AND
SUBCLASSES;
NAMED BY SUPERIOR OBJECT CLASS "ITU-T Rec. M.3100:1995":
managedElement AND SUBCLASSES;
WITH ATTRIBUTE scheduleId;
CREATE;
DELETE
DELETES-CONTAINED-OBJECTS;

REGISTERED AS { q821NameBinding 2 };

10 Modify A.6 "Abstract Syntax Definitions", as follows:

Replace

ASN1DefinedTypeModule
{ ccitt(0) recommendation(0) m(13) gnm(3100) informationModel(0) asn1Module(2)
asn1DefinedTypesModule(0) }

with

ASN1DefinedTypesModule
{ ccitt(0) recommendation(0) m(13) informationModel(0) asn1Modules(2) asn1DefinedTypesModule(0) }

11 Modify A.6 "Abstract Syntax Definitions", as follows:

Replace

ACSE-1 { joint-iso-ccitt association-control(2) abstract-syntax(1) apdus(0) version(1) }

with

ACSE-1 { joint-iso-ccitt association-control(2) modules(0) apdus(0) version(1) }

12 Modify A.6 "Abstract Syntax Definitions", as follows:

Replace

q821 StandardSpecificExtension

with

q821StandardSpecificExtension

Superseded by a more recent version

13 Modify A.6 "Abstract Syntax Definitions", as follows:

Replace

**ObjectAlarmSummary ::= SEQUENCE{ objectOfReference ObjectOfReference,
SEQUENCE OF AlarmSummaryInfo }**

with

**ObjectAlarmSummary ::= SEQUENCE { objectOfReference ObjectOfReference,
summaryInfo SEQUENCE OF AlarmSummaryInfo }**

14 Modify A.6 "Abstract Syntax Definitions", as follows:

Replace

**StatusChange ::= SET OF SEQUENCE { StatusAttributeID OBJECT IDENTIFIER,
oldStatusValue [1] ANY DEFINED BY StatusAttributeID OPTIONAL,
newStatusValue [2] ANY DEFINED BY StatusAttributeID }**

with

**StatusChange ::= SET OF SEQUENCE { statusAttributeID OBJECT IDENTIFIER,
oldStatusValue [1] ANY DEFINED BY statusAttributeID OPTIONAL,
newStatusValue [2] ANY DEFINED BY statusAttributeID }**

15 Modify A.6 "Abstract Syntax Definitions", as follows:

Replace

**SuspectObject ::= SEQUENCE { suspectObjectClass OBJECT IDENTIFIER,
suspectObjectInstance ObjectInstance,
failureProbability INTEGER 0..100 OPTIONAL -- in the range 1 ..100-- }**

with

**SuspectObject ::= SEQUENCE { suspectObjectClass OBJECT IDENTIFIER,
suspectObjectInstance ObjectInstance,
failureProbability INTEGER (0..100) OPTIONAL -- in the range 1 .. 100-- }**

16 Modify A.6 "Abstract Syntax Definitions", as follows:

Replace

as-alarm-indication (13) }

with

as-alarm-indication (13) }

END

Superseded by a more recent version

ITU-T RECOMMENDATIONS SERIES

Series A	Organization of the work of the ITU-T
Series B	Means of expression: definitions, symbols, classification
Series C	General telecommunication statistics
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks and open system communications
Series Y	Global information infrastructure
Series Z	Languages and general software aspects for telecommunication systems