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Series Q

Supplement 9
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SERIES Q: SWITCHING AND SIGNALLING

Technical Report TRQ.2000: Roadmap for the TRQ.2xxx-series Technical Reports

ITU-T Q-series Recommendations – Supplement 9

(Formerly CCITT Recommendations)

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SUPPLEMENT 9 TO ITU-T Q-SERIES RECOMMENDATIONS

TECHNICAL REPORT TRQ.2000: ROADMAP FOR THE TRQ.2xxx-SERIES TECHNICAL REPORTS

Summary

This Supplement specifies the index for the TRQ.2xxx-series Technical Reports.

Source

Supplement 9 to ITU-T Q-series Recommendations was prepared by ITU-T Study Group 11 (1997-2000) and was approved under the WTSC Resolution No. 5 procedure on 3 December 1999.

FOREWORD

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

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TECHNICAL REPORT TRQ.2000: ROADMAP FOR THE TRQ.2xxx-SERIES TECHNICAL REPORTS

1 Scope

The scope of this Supplement is to provide an overall revised index for the TRQ.2000-series of Technical Reports which will be published as supplements to the Q series. This Supplement supersedes Supplement 6 to Q series.

2 References

The following Technical Reports and other references contain provisions which, through reference in this text, constitute provisions of this Supplement. At the time of publication, the editions indicated were valid. All Supplements and other references are subject to revision; all users of this Supplement are therefore encouraged to investigate the possibility of applying the most recent addition of the supplements and other references listed below. A list of the currently valid ITU-T Recommendations and supplements are regularly published.

– ITU-T Q-series Recommendations – Supplement 7 (1999), *Technical Report TRQ.2001*: *General aspects for the development of unified signalling requirements*.

3 Definitions

This Supplement defines the following terms:

3.1 call: An end-to-end communications service between two or more call party end points, or between one call party end point and its serving node.

3.2 network connection: An ATM network connection of topology type 1 to 6 as defined in Table A.1 contained in the Annex A of Technical Report TRQ.2001.

3.3 transport connection: An AAL type 2 connection of topology type 1 as defined in Table A.1 contained in the Annex A of Supplement TRQ.2001.

4 Abbreviations

This Supplement uses the following abbreviations:

AAL ATM Adaptation Layer

ATM Asynchronous Transfer Mode

5 Overview

This Supplement acts as an index or roadmap for the TRQ.2xxx-series of Technical Reports. In addition, this Supplement provides a cross-index of supported capabilities against signalling requirement supplements.

6 Roadmap

The organization of the Technical Report supplements within the scope of the TRQ.2xxx series are as follows:

TRQ.200x General documents that are used to specify the common signalling requirement elements that are referenced in other TRQ-series reports.

TRQ.201x Interworking requirements between various signalling applications.

TRQ.21xx Coordinated call control and bearer control signalling requirements.

TRQ.22xx Call control signalling requirements.

TRQ.23xx Bearer control signalling requirements.

TRQ.24xx Transport control signalling requirements.

The detail Roadmap of TRQ supplements series are contained in Table 6-1.

Table 6-1 – Roadmap of Technical Reports

TRQ-series No.	Title of supplement
TRQ.2000	Roadmap for the TRQ.2000-series Technical Reports
TRQ.2001	General aspects for the development of unified signalling requirements
TRQ.2002	Information flow elements
TRQ.2010	B-ISDN signalling interworking requirements – Part 1
TRQ.2100	Coordinated call control and bearer control signalling requirements – Root-party coordinated call and bearer control
TRQ.2110	Coordinated call control and bearer control signalling requirements – Leaf-party coordinated call and bearer control
TRQ.2120	Coordinated call control and bearer control signalling requirements – Third-party coordinated call and bearer control
TRQ.2130	Coordinated call control and bearer control signalling requirements – Leaf-initiated join coordinated call and bearer control
TRQ.2140	Coordinated call control and bearer control signalling requirements for the support of narrowband services via broadband transport technologies – Originating party call and bearer coordinated call and bearer control
TRQ.2200	Call control signalling requirements – Party call control
TRQ.2230	Call control signalling requirements – Join an external party to a registered call
TRQ.2300	Bearer control signalling requirements – Root-party bearer control
TRQ.2310	Bearer control signalling requirements – Leaf-party bearer control
TRQ.2320	Bearer control signalling requirements – Third-party bearer control
TRQ.2400	Transport control signalling requirements – Signalling requirements for AAL type 2-link control capability set 1

7 Signalling capabilities to supplement cross-reference

Mapping of Signalling Capabilities to TRQ supplements of the 2000-series Technical Reports are as follows.

7.1 Coordinated Call Control and Bearer Control Signalling Requirements – Root-party Coordinated Call and Bearer Control

Table 7-1 describes the signalling capabilities that are contained in TRQ.2100.

Table 7-1 – Root-party Call Control Capabilities

	Network connection type
Coordinated call and network connection establishment	
Two-party call establishment with one or more network connections	Types 1, 2, 3 and 5
Three- or more-party call establishment with one or more network connections	Types 2, 3, and 5
Multicast address establishment with one or more network connections	Types 2, 3 and 5
Any cast address establishment with one or more network connections	Type 1
Addition of one or more new parties to an existing call with attachment to existing or new network connections	
Addition of one or more new parties with attachment to one or more existing connections	Types 2, 3 and 5
Addition of one or more new parties with attachment to one or more new network connections	Types 2, 3 and 5
Release one or more parties and their associated network connection branches from the call	
Release a party and its associated network connection branches from a two-party call	Types 1, 2, 3 and 5
Release one or more parties and their associated network connection branches from a three- or more-party call	Types 1, 2, 3 and 5
Call release with one or more parties and their associated network connection	
Release of a single-party call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a two-party call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a multiparty call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a two-party call and its associated connections, requested by a non-call owner party	Types 1, 2, 3 and 5
Release of a multiparty call and its associated connections, requested by a non-call owner party	Types 1, 2, 3 and 5

7.2 Coordinated Call Control and Bearer Control Signalling Requirements – Leaf-party Coordinated Call and Bearer Control

Table 7-2 describes the signalling capabilities that are contained in TRQ.2110.

Table 7-2 – Leaf-party Call Control Capabilities

	Network connection type
Coordinated call and network connection establishment	
Two-party call establishment with one or more network connections	Types 1, 2, 3 and 5
Three- or more-party call establishment with one or more network connections	Types 2, 3, and 5
Multicast address establishment with one or more network connections	Types 2, 3 and 5
Addition of one or more new parties to an existing call with attachment to existing or new network connections	
Addition of one or more new parties with attachment to one or more existing connections	Types 2, 3 and 5
Addition of one or more new parties with attachment to one or more new network connections	Types 2, 3 and 5
Release one or more parties and their associated network connection branches from the call	
Release a party and its associated network connection branches from a two-party call	Types 1, 2, 3 and 5
Release one or more parties and their associated network connection branches from a three- or more-party call	Types 1, 2, 3 and 5
Call release with one or more parties and their associated network connection	
Release of a single-party call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a two-party call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a multiparty call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a two-party call and its associated connections, requested by a non-call owner party	Types 1, 2, 3 and 5
Release of a multiparty call and its associated connections, requested by a non-call owner party	Types 1, 2, 3 and 5

7.3 Coordinated Call Control and Bearer Control Signalling Requirements – Third-party Coordinated Call and Bearer Control

Table 7-3 describes the signalling capabilities that are contained in TRQ.2120.

Table 7-3 – Third-party Call Control Capabilities

	Network connection type
Coordinated call and network connection establishment	
Two-party call establishment with one or more network connections	Types 1, 2, 3 and 5
Three- or more-party call establishment with one or more network connections	Types 2, 3 and 5
Multicast address establishment with one or more network connections	Types 2, 3 and 5
Addition of one or more new parties to an existing call with attachment to existing or new network connections	
Addition of one or more new parties with attachment to one or more existing connections	Types 2, 3 and 5
Addition of one or more new parties with attachment to one or more new network connections	Types 2, 3 and 5
Release one or more parties and their associated network connection branches from the call	
Release a party and its associated network connection branches from a two-party call	Types 1, 2, 3 and 5
Release one or more parties and their associated network connection branches from a three- or more-party call	Types 1, 2, 3 and 5
Call release with one or more parties and their associated network connection	
Release of a single-party call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a two-party call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a multiparty call and its associated connections, requested by the call owner	Types 1, 2, 3 and 5
Release of a two-party call and its associated connections, requested by a non-call owner party	Types 1, 2, 3 and 5
Release of a multiparty call and its associated connections, requested by a non-call owner party	Types 1, 2, 3 and 5

7.4 Coordinated Call Control and Bearer Control Signalling Requirements – Leaf-initiated Join Coordinated Call and Bearer Control

Table 7-4 describes the signalling capabilities that are contained in TRQ.2130.

Table 7-4 – Leaf Initiated Join Call Control Capabilities

	Network connection type
Coordinated call and network connection establishment	
Leaf-initiated call registration	Types 1, 2, 3 and 5
Leaf-initiated call creation	Types 2, 3 and 5
Addition of one or more new parties to an existing call with attachment to existing connections	
Leaf-Party Request to join active LIJ call & bearer	Types 2, 3 and 5
Release one or more parties and their associated network connection branches from the call	
Removal of leaf party requested by root party	Types 1, 2, 3 and 5
Leaf party requests to be released from the LIJ call	Types 1, 2, 3 and 5
Call release with one or more parties and their associated network connection	
LIJ call & bearer clearing by root party	Types 1, 2, 3 and 5

7.5 Signalling Requirements for the Support of Narrowband Services via Broadband Transport Technologies

Table 7-5 describes the signalling capabilities that are contained in TRQ.2140.

Table 7-5 – Originating-party Call Control Capabilities

	Network connection type
Coordinated call and network connection establishment	
Two-party call establishment with one network connections	Type 1
Call release and its associated network connection	
Release of a two-party call and its associated connection, requested by either party	Type 1

7.6 Call Control Signalling Requirements – Party Call Control

Table 7-6 describes the signalling capabilities that are contained in TRQ.2200.

Table 7-6 – Party Call Control Capability

	Network connection type
Call establishment without any network connections	
Establish a call with two parties	NA
Establish a call with three- or more-parties	NA
Addition of one or more parties without network connections to an existing call	
Add one new party to an existing call requested by any party already associated with that call	NA
Add two or more new parties to an existing call requested by any party already associated with that call	NA
Release of a party without network connections from an existing call	
Release of a party from an existing two-party call	NA
Release of a party from an existing three- or more-party call	NA
Release of a call without network connections	
Release of a single-party call requested by the call owner	NA
Release of a two-party call requested by the call owner	NA
Release of a multiparty call requested by the call owner	NA
Release of a two-party call requested by a non-call owner party	NA
Release of a multiparty call requested by a non-call owner party	NA

7.7 Call Control Signalling Requirements – Join Call Control

Table 7-7 describes the signalling capabilities that are contained in TRQ.2230.

Table 7-7 – Join Call Control Capability

	Network connection type
Call establishment without any network connections	
Creation of a registered call	NA
Join a registered call with no active parties	NA
Join a call with one or more parties	NA
Release of a party without network connections from an existing call	
Release of a party from an existing registered call	NA

7.8 Bearer Control Signalling Requirements – Root-party Bearer Control

Table 7-8 describes the signalling capabilities that are contained in TRQ.2300.

Table 7-8 – Root-party Call Control Capabilities

	Network connection type
Addition of one or more new network connections to an existing call requested by the party that will be the root of the new network connection(s)	
Addition of one new network connections to an existing call	Types 1, 2, 3 and 5
Addition of one or more new network connections to an existing call	Types 1, 2, 3 and 5
Attachment of one or more existing parties to one or more existing network connections requested by the party associated with the root of the existing network connection	
Attach one or more existing parties to one or more existing connections	Types 1, 2, 3 and 5
Attach one or more existing parties to one or more new connections	Types 1, 2, 3 and 5
Detachment of one or more parties from one or more connections by either the call owner, network connection owner or the party owner	
Detach a party from its associated network connection branches in a two-party call	Types 1, 2, 3 and 5
Detach one or more parties from their associated network connection branches in a three- or more-party call	Types 1, 2, 3 and 5
Removal of one or more connections from a call requested by the network requested by either the connection owner or call owner	
Removal of one or more network connections from a two-party call	Types 1, 2, 3 and 5
Removal of one or more network connections from a three- or more-party call	Types 1, 2, 3 and 5

7.9 Bearer Control Signalling Requirements – Leaf-party Bearer Control

Table 7-9 describes the signalling capabilities that are contained in TRQ.2310.

Table 7-9 – Leaf-party Call Control Capabilities

	Network connection type
Addition of one or more new network connections to an existing call requested by the party that will be the leaf of the new network connection(s)	
Addition of one new network connections to an existing call	Types 1, 2, 3 and 5
Addition of one or more new network connections to an existing call	Types 1, 2, 3 and 5
Attachment of one or more existing parties to one or more existing network connections requested by the party associated with a leaf of the existing network connection	
Attach one or more existing parties to one or more existing connections	Types 1, 2, 3 and 5
Attach one or more existing parties to one or more new connections	Types 1, 2, 3 and 5
Detachment of one or more parties from one or more connections by either the call owner, network connection owner or the party owner	
Detach a party from its associated network connection branches in a two-party call	Types 1, 2, 3 and 5
Detach one or more parties from their associated network connection branches in a three- or more-party call	Types 1, 2, 3 and 5
Removal of one or more connections from a call requested by the network requested by either the connection owner or call owner	
Removal of one or more network connections from a two-party call	Types 1, 2, 3 and 5
Removal of one or more network connections from a three- or more-party call	Types 1, 2, 3 and 5

7.10 Bearer Control Signalling Requirements – Third-party Bearer Control

Table 7-10 describes the signalling capabilities that are contained in TRQ.2320.

Table 7-10 – Third-party Call Control Capabilities

	Network connection type
Addition of one or more new network connections to an existing call requested by a party that will not be attached to the new network connection(s)	
Addition of one new network connections to an existing call	Types 1, 2, 3 and 5
Addition of one or more new network connections to an existing call	Types 1, 2, 3 and 5
Attachment of one or more existing parties to one or more existing network connections requested by a party that is not attached to the existing network connection	
Attach one or more existing parties to one or more existing connections	Types 1, 2, 3 and 5
Attach one or more existing parties to one or more new connections	Types 1, 2, 3 and 5
Detachment of one or more parties from one or more connections by either the call owner, network connection owner or the party owner	
Detach a party from its associated network connection branches in a two-party call	Types 1, 2, 3 and 5
Detach one or more parties from their associated network connection branches in a three- or more-party call	Types 1, 2, 3 and 5
Removal of one or more connections from a call requested by the network requested by either the connection owner or call owner	
Removal of one or more network connections from a two-party call	Types 1, 2, 3 and 5
Removal of one or more network connections from a three- or more-party call	Types 1, 2, 3 and 5

7.11 Transport Control Signalling Requirements – Signalling Requirements for AAL Type 2 Link Control Capability Set 1

Table 7-11 describes the signalling capabilities that are contained in TRQ.2400.

Table 7-11 – AAL type 2 Link Control Capabilities

	Transport connection type
AAL type 2 connection establishment	
AAL type 2 connection establishment	Type 1
AAL type 2 connection release	
AAL type 2 connection release	Type 1

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