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SERIES Q: SWITCHING AND SIGNALLING

Technical Report TRQ.2402: Transport control signalling requirements – Signalling requirements for AAL type 2 link control Capability Set 3

ITU-T Q-series Recommendations – Supplement 42

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Technical Report TRQ.2402: Transport control signalling requirements – Signalling requirements for AAL type 2 link control Capability Set 3

Summary

This Supplement to the Q series of ITU-T Recommendations contains a Technical Report that specifies the general aspects of AAL type 2 signalling requirements for the development of AAL type 2 signalling Capability Set 3 (CS-3). It shall be read in conjunction with TRQ.2400 [1] and TRQ.2401 [2] to realise the full set of requirements.

This Supplement identifies what can be viewed as the capabilities for AAL type 2 signalling. In addition, it describes the essential features and models useful for the development of functional entity actions in support of AAL type 2 signalling.

Source

Supplement 42 to ITU-T Q-series Recommendations was agreed by ITU-T Study Group 11 (2001-2004) on 12 September 2003.

FOREWORD

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Supplement 42 to ITU-T Q-series Recommendations

Technical Report TRQ.2402: Transport control signalling requirements – Signalling requirements for AAL type 2 link control Capability Set 3

1 Scope

This Supplement contains the signalling requirements for the AAL type 2 connection signalling for the Capability Set 3 (CS-3) to extend the CS-1 and CS-2 signalling requirements specified in TRQ.2400 [1] and TRQ.2401 [2]. Only additional or changed requirements to those described in TRQ.2400 [1] and TRQ.2401 [2] are shown.

The main new features introduced in this capability set are:

- Support of AAL Type 2 Transfer Capabilities;
- Support of Automatic Congestion Control;
- Support of Temporary Alternative Routing;
- Support of Hop Counter Procedure;
- Support of Priority Service; and
- Support of Originating Service Endpoint Addresses.

2 References

- [1] ITU-T Q-series Recommendations – Supplement 8 (1999), *Technical Report TRQ.2400: Transport control signalling requirements – Signalling requirements for AAL Type 2 link control capability set 1*.
- [2] ITU-T Q-series Recommendations – Supplement 33 (2000), *Technical Report TRQ.2401: Transport control signalling requirements – Signalling requirements for AAL Type 2 link control capability set 2*.
- [3] ITU-T Recommendation I.255.4 (1990), *Community of interest supplementary services: Priority Service*.
- [4] ITU-T Recommendation Q.1902.4 (2001), *Bearer Independent Call Control protocol (Capability Set 2): Basic call procedures*.
- [5] ITU-T Recommendation I.378 (2002), *Traffic control and congestion control at the ATM Adaptation Layer Type 2*.
- [6] ITU-T Recommendation Q.2630.1 (1999), *AAL type 2 signalling protocol – Capability Set 1*.
- [7] ITU-T Recommendation Q.2630.2 (2000), *AAL type 2 signalling protocol Capability Set 2*.

3 Definitions

For the purpose of this Supplement the definitions in clauses 3/TRQ.2400 [1] and 3/TRQ.2401 [2] apply with the following additions.

3.1 CS-1 node, CS-1 switch, CS1 service endpoint: An AAL type 2 node, switch, or service endpoint conforming to capability set 1 (see ITU-T Rec. Q.2630.1 [6]).

3.2 CS-2 node, CS-2 switch, CS-2 service endpoint: An AAL type 2 node, switch, or service endpoint conforming to capability set 2 (see ITU-T Rec. Q.2630.2 [7]).