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AMENDMENT 2
1992-12-15

**Information technology – Open Systems
Interconnection – Service definition for the
Commitment, Concurrency and Recovery
service element**

AMENDMENT 2: Session mapping changes

*Technologies de l'information – Interconnexion de systèmes ouverts –
Définition du service pour l'élément de service d'engagement, de
concurrence et de reprise*

*AMENDEMENT 2: Modification de la mise en correspondance avec la
session*



Foreword

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Amendment 2 to International Standard ISO/IEC 9804:1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

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Information technology – Open Systems Interconnection – Service definition for the Commitment, Concurrency and Recovery service element

Amendment 2: Session mapping changes

Introduction

{NO CHANGE}

1 Scope

{ADD A NEW PARAGRAPH TO THE END OF THE CLAUSE}

The CCR service definition in this International Standard requires that either CCR Protocol Version 1 or CCR Protocol Version 2 is being used. Variations which are specific to each version are indicated in the text.

2 Normative references

{ADD THE FOLLOWING REFERENCES TO THIS CLAUSE, MAINTAINING NUMERICAL ORDER.}

ISO 8822:1988/Amd.5:⁻¹⁾, *Information processing systems - Open Systems Interconnection - Basic connection oriented presentation service definition, Amendment 5: Additional Session Synchronization Functionality to the Presentation Service User.*

ISO 8326:1987/Amd.4:⁻¹⁾, *Information processing systems - Open Systems Interconnection - Basic connection oriented session services definition, Amendment 4 : Additional Resynchronization Functionality.*

ISO/IEC 9805:1990/Amd.2:⁻¹⁾, *Information technology - Open Systems Interconnection <196> Protocol specification for the Commitment, Concurrency and Recovery service element, Amendment 2: Session mapping changes.*

3 Definitions

{NO CHANGE}

4 Abbreviations

{NO CHANGE}

5 Conventions

{NO CHANGE}

6 Concepts

{NO CHANGE}

7 Service definition

7.1 C-BEGIN service

{NO CHANGE}

¹⁾ To be published.

7.2 C-PREPARE service
{NO CHANGE}

7.3 C-READY service
{NO CHANGE}

7.4 C-COMMIT service

7.4.1 Purpose and use
{CHANGE THE PHRASE "The use of" AT THE BEGINNING OF PARAGRAPH 7.4.1.5 TO THE FOLLOWING.}

If CCR Protocol Version 1 is being used, then the use of...

{ADD A NEW PARAGRAPH 7.4.1.6. RENUMBER THE SUCCEEDING CLAUSES ACCORDINGLY}

7.4.1.6 If CCR Protocol Version 2 is being used, then the use of the C-COMMIT service has the effect of establishing a minor synchronization point on the underlying session-connection that supports the branch. The superior shall own the synchronize-minor token.

7.4.2 C-COMMIT parameter
{NO CHANGE}

7.5 C-ROLLBACK service
{CHANGE THE PHRASE "This can result" IN THE SECOND SENTENCE IN 7.5.1.5 TO THE FOLLOWING}

If CCR Protocol Version 1 is being used, then this can result...

7.6 C-RECOVER service
{NO CHANGE}

8 Sequencing information
{NO CHANGE}

9 Using CCR

9.1 General
{NO CHANGE}

9.2 Use of CCR by a cooperating main service
{NO CHANGE}

{CHANGE THE TITLE OF CLAUSE 9.3 TO THE FOLLOWING}

9.3 Use of resynchronization with CCR Protocol Version 1

{REMOVE CLAUSE 9.3.2}

{ADD A NEW SUBCLAUSE 9.4 WITH THE FOLLOWING TEXT. }

9.4 Use of session synchronization and resynchronization services with CCR Protocol Version 2

9.4.1 CCR services cannot be used by a referencing specification that uses session resynchronization in a manner unrelated to CCR semantics. In particular, a referencing specification may only use session resynchronization in circumstances where there is no possibility of the resynchronization disrupting any CCR service procedures other than the C-READY request primitive, the C-PREPARE request primitive or the C-BEGIN response primitive.

NOTE - For example, a referencing specification may use the P-RESYNCHRONIZE(restart) or P-RESYNCHRONIZE(set) services before the end of Phase 1.

9.4.2 A referencing specification may use session synchronization points (minor or major). However, the referencing specification must be aware that CCR also uses session synchronization points.

{ADD A NEW CLAUSE 9.5 AS FOLLOWS. }

9.5 Use of CCR with Session Activities

9.5.1 The CCR services cannot be used outside of a session activity if the session activity management functional unit was selected for the supporting association.

{CHANGE THE TITLE OF 9.4 TO THE FOLLOWING AND RENUMBER TO 9.6.}

9.6 Use of transport expedited service with CCR Protocol Version 1

{ADD A NEW CLAUSE 9.7 WITH THE FOLLOWING TEXT. }

9.7 Use of presentation services with CCR Protocol Version 2

The C-BEGIN request primitive cannot be issued if a P-ALTER-CONTEXT confirm primitive is pending and the Context Restoration functional unit of Presentation is selected.

{RETITLE CLAUSE 9.5 AS FOLLOWS AND RENUMBER TO 9.8}

9.8 Starting a branch in CCR Protocol Version 1

Annex A

{normative}

CCR service user rules

A.3.4 C-COMMIT request primitive

{CHANGE ITEM "e)" IN A.3.4.1 TO READ AS FOLLOWS.}

e) the CCR service-user owns the major/activity token if CCR Protocol Version 1 is being used, or the synchronize-minor token if CCR Protocol Version 2 is being used [association use rule - Rule A.3.4.1-e].

Annex B

{normative}

Relationship of CCR to the Application Layer Structure

{NO CHANGE}

Annex C

{informative}

CCR tutorial

{RETITLE CLAUSE C.10 AS FOLLOWS}

C.10 Use of session synchronize and resynchronize services with CCR Protocol Version 1

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