INTERNATIONAL STANDARD

# ISO/IEC 9804

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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*

Reference number
ISO/IEC 9804:1990/Amd. 2:1992 (E)

## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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





International Organization for Standardization

Case postale 56 • CH-1211 Genève 20 • Switzerland

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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}*

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[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