INTERNATIONAL STANDARD

ISO/IEC 10164-2

First edition
1993-06-15

AMENDMENT 2
2002-03-01

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Information technology — Open Systems Interconnection — Systems Management: State Management Function

AMENDMENT 2: Amendment to support lifecycle state

Technologies de l'information — Interconnexion de systèmes ouverts — Gestion-système: Fonction de gestion d'états

AMENDEMENT 2: Amendement pour supporter l'état du cycle de vie

Reference number
ISO/IEC 10164-2:1993/Amd.2:2002(E)

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of the joint technical committee is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this Amendment may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 2 to International Standard ISO/IEC 10164-2:1993 was prepared by ITU-T (as ITU-T Rec. X.731/Amd.2) and was adopted, under a special “fast-track procedure”, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – OPEN SYSTEMS INTERCONNECTION – SYSTEMS MANAGEMENT: STATE MANAGEMENT FUNCTION

AMENDMENT 2

Amendment to support lifecycle state

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1) New subclause to clause 7

Add the following new subclause to clause 7 (Model):

7.x.x Lifecycle state

This state attribute tracks the plan for the managed object representing a resource. Inventoried resources may have a life cycle attribute so that their deployment can be planned, tracked, and managed. Logical resources, e.g. connection, are not inventoried; however, their deployment can be planned, tracked, and managed using a lifecycle state attribute.

The transitions of the Lifecycle State are shown below (see Figure x):

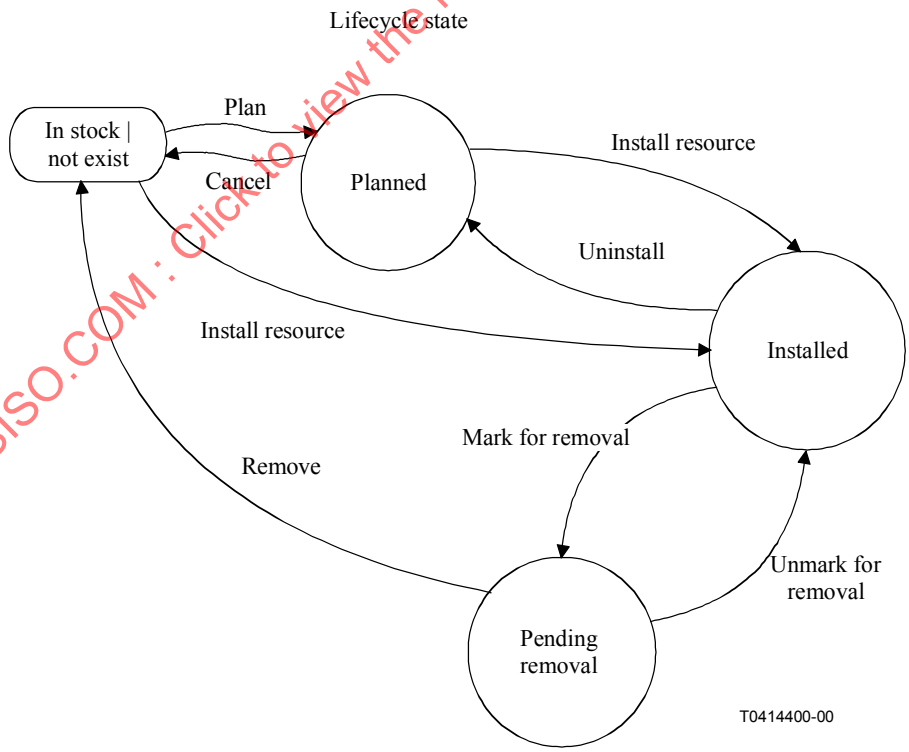

Figure x – Lifecycle state transition Diagram

2) New subclause to clause 8

Insert the following new subclause to clause 8:

8.1.2.x Lifecycle state attribute

The lifecycle state attribute is single-valued, read-write. It shall have one of the following values.

- planned: The resource is planned but is not installed in the network.
- installed: The resource is installed in the network.
- pending removal: The resource has been marked for removal.

3) Subclause 11.2.2

Insert the following into the list of attributes in 11.2.2:

a) lifecycleState;

4) Table A.4

Replace Table A.4 with the following:

Table A.4 – Agent role minimum conformance requirement

Index	Item	Status	Support	Table reference	Additional information
1	operationalState attribute	c5			
2	usageState attribute	c5			
3	administrativeState attribute	c5			
4	alarmStatus attribute	c5			
5	proceduralStatus attribute	c5			
6	availabilityStatus attribute	c5			
7	controlStatus attribute	c5			
8	standbyStatus attribute	c5			
9	unknownStatus attribute	c5			
10	state attribute group	c5			
11	State change notification	c6			
12	state change record managed object class	c7		–	
13	lifecycleState attribute	c5		–	

c5: if A.2/1b then o else (if A.1/2a then o.3 else –).

c6: if A.2/1b then m else (if A.1/2a then o.3 else –).

c7: if A.4/11a and A.5/1a then m else –.

NOTE – The Table reference column in this table is the notification, attributes, or attribute group table reference of the MOCS supplied by the supplier of the managed object which claims to import the notification or attribute from this Recommendation | International Standard.

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