# INTERNATIONAL STANDARD

# ISO/IEC 10164-2

First edition
1993-06-15

**AMENDMENT 2**
2002-03-01

# 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

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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

## 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):

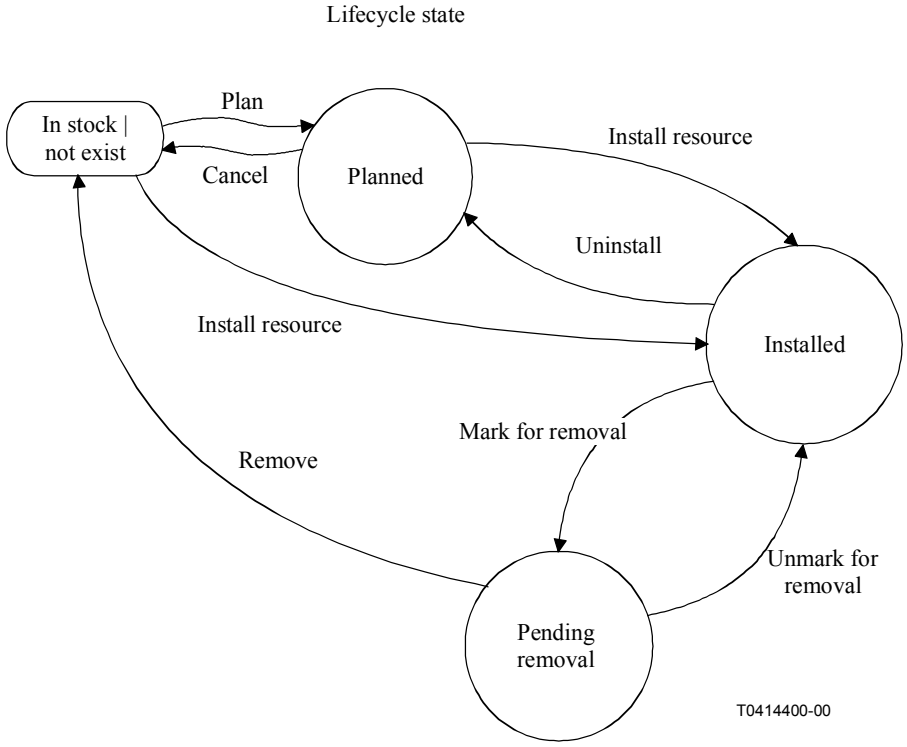



**Figure x – Lifecycle state transition Diagram**

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## 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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## 5) Table B.1

*Replace Table B.1 with the following:*

**Table B.1 – Generic state attributes support**

| | | | | Set by create | | Get | | Replace | |
|---|---|---|---|---|---|---|---|---|---|
| Index | Attribute template label | Value of object identifier for attribute | Constraints and values | Status | Support | Status | Support | Status | Support |
| 1 | operationalState | {dmi-att 35} | – | – | | o.4 | | – | |
| 2 | usageState | {dmi-att 39} | – | – | | o.4 | | – | |
| 3 | administrativeState | {dmi-att 31} | – | o.4 | | o.4 | | o.4 | |
| 4 | alarmStatus | {dmi-att 32} | – | o.4 | | o.4 | | o.4 | |
| 5 | proceduralStatus | {dmi-att 36} | – | – | | o.4 | | – | |
| 6 | availabilityStatus | {dmi-att 33} | – | – | | o.4 | | – | |
| 7 | controlStatus | {dmi-att 34} | – | o.4 | | o.4 | | o.4 | |
| 8 | standbyStatus | {dmi-att 37} | – | – | | o.4 | | – | |
| 9 | unknownStatus | {dmi-att 38} | – | – | | o.4 | | – | |
| 10 | lifecycleState | {dmi-att 105} | – | o.4 | | o.4 | | o.4 | |

**Table B.1– Generic state attributes support (*concluded*)**

| | Add | | Remove | | Set to default | | |
|---|---|---|---|---|---|---|---|
| Index | Status | Support | Status | Support | Status | Support | Additional information |
| 1 | – | | – | | – | | |
| 2 | – | | – | | – | | |
| 3 | – | | – | | – | | |
| 4 | o.4 | | o.4 | | – | | |
| 5 | – | | – | | – | | |
| 6 | – | | – | | – | | |
| 7 | o.4 | | o.4 | | – | | |
| 8 | – | | – | | – | | |
| 9 | – | | – | | – | | |
| 10 | – | | – | | – | | |

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