



中华人民共和国国家标准

GB/T 17175.2—1997
idt ISO/IEC 10165-2:1992

信息技术 开放系统互连 管理信息结构 第2部分:管理信息定义

Information technology—Open Systems Interconnection—
Structure of management information—
Part 2: Definition of management information

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前 言

本标准等同采用国际标准 ISO/IEC 10165-2:1992《信息技术 开放系统互连 管理信息结构 第2部分:管理信息定义》,以及 ISO/IEC 10165-2:1992 Cor. 1:1994《开放系统互连 管理信息结构 第2部分:管理信息定义 技术修改1》。

本标准无论在技术内容上,还是在编排格式上均与国际标准保持一致。

GB/T 17175 在《信息技术 开放系统互连 管理信息结构》的总标题下,目前包括下列三部分:

第1部分:管理信息模型

第2部分:管理信息定义

第4部分:被管客体的定义指南

本标准的附录 A 是标准的附录;附录 B 到附录 G 是提示的附录。

本标准由中华人民共和国电子工业部提出。

本标准由电子工业部标准化研究所归口。

本标准起草单位:电子工业部标准化研究所。

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ISO/IEC 前言

ISO(国际标准化组织)和 IEC(国际电工委员会)是世界性的标准化专门机构。国家成员体(它们都是 ISO 或 IEC 的成员国)通过国际组织创建的各个技术委员会参与制定针对特定技术范围的国际标准。ISO 和 IEC 的各技术委员会在共同感兴趣的领域内进行合作。与 ISO 和 IEC 有联系的其他官方和非官方国际组织也可参与国际标准的制定工作。

对于信息技术,ISO 和 IEC 创建了一个联合技术委员会,即 ISO/IEC JTC1。由联合技术委员会提出的国际标准草案需分发给国家成员体进行表决。发布一项国际标准,至少需要 75% 的参与表决的国家成员体投票赞成。

国际标准 ISO/IEC 10165-2 是由 ISO/IEC JTC1 信息技术联合技术委员会与 CCITT 合作制定的,这个文本也以 CCITT 建议 X.721 发布的。

ISO/IEC 10165 在《信息技术 开放系统互连 管理信息结构》的总标题下,包括下列部分:

第 1 部分:管理信息模型

第 2 部分:管理信息定义

第 4 部分:被管客体的定义指南

第 5 部分:类属管理信息

第 6 部分:与管理信息相关的实现一致性声明形式表的要求和指南

附录 A 是本标准的一部分,附录 B 到附录 G 仅提供参考信息。

引 言

GB/T 17175 是根据 GB 9387 和 GB 9387.4 编制的系列标准。GB/T 17175 涉及下列标准：

GB/T 16644—1996	信息技术	开放系统互连	公共管理信息服务定义
GB/T 16645—1996	信息技术	开放系统互连	公共管理信息协议
GB/T 17142—1997	信息技术	开放系统互连	系统管理概述
GB/T 17143—1997	信息技术	开放系统互连	系统管理



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中华人民共和国国家标准

信息技术 开放系统互连 管理信息结构 第2部分:管理信息定义

GB/T 17175.2—1997
idt ISO/IEC 10165-2:1992

Information technology—Open Systems Interconnection—
Structure of management information—
Part 2: Definition of management information

1 范围

本标准:

——定义了被管客体的类、属性类型、名字联编、包、特定属性、动作类型、参数类型和通知类型,其文字叙述见 GB/T 17175.4。

——规定了对其他使用这些定义的国家标准所安排的依从性要求。

本标准适用于制定 OSI 被管客体类规范,并提供了支持 OSI 系统管理功能的类属定义。这些定义也可由其他国家标准用来规定客体类、属性、通知和动作类型。

2 引用标准

下列标准所包含的条文,通过在本标准中引用而构成为本标准的条文。本标准出版时,所示版本均为有效。所有标准都会被修订,使用本标准的各方应探讨使用下列标准最新版本的可能性。

GB/T 9387—88 信息处理系统 开放系统互连 基本参考模型(idt ISO 7498:1984)

GB/T 9387.4—1996 信息处理系统 开放系统互连 基本参考模型 第4部分:管理框架
(idt ISO 7498-4:1989)

GB/T 16262—1996 信息技术 开放系统互连 抽象语法记法—(ANS.1)规范 (idt ISO/IEC 8824:1990)

GB/T 16264.2—1996 信息技术 开放系统互连 目录 第2部分:模型(idt ISO/IEC 9594-2:1990)

GB/T 16644—1996 信息技术 开放系统互连 公共管理信息服务定义(idt ISO/IEC 9595:1991)

GB/T 16645.1—1996 信息技术 开放系统互连 公共管理信息协议 第1部分:规范(idt ISO/IEC 9596-1:1991)

GB/T 17143.1—1997 信息技术 开放系统互连 系统管理 第1部分:客体管理功能(idt ISO/IEC 10164-1:1992)

GB/T 17143.2—1997 信息技术 开放系统互连 系统管理 第2部分:状态管理功能(idt ISO/IEC 10164-2:1992)

GB/T 17143.3—1997 信息技术 开放系统互连 系统管理 第3部分:表示关系的属性
(idt ISO/IEC 10164-3:1992)

- GB/T 17143.4—1997 信息技术 开放系统互连 系统管理 第4部分:告警报告功能(idt ISO/IEC 10164-4:1992)
- GB/T 17143.5—1997 信息技术 开放系统互连 系统管理 第5部分:事件报告管理功能(idt ISO/IEC 10164-5:1992)
- GB/T 17143.6—1997 信息技术 开放系统互连 系统管理 第6部分:日志控制功能(idt ISO/IEC 10164-6:1992)
- GB/T 17143.7—1997 信息技术 开放系统互连 系统管理 第7部分:安全告警报告功能(idt ISO/IEC 10164-7:1992)
- GB/T 17175.1—1997 信息技术 开放系统互连 管理信息结构 第1部分:管理信息模型(idt ISO/IEC 10165-1:1993)
- GB/T 17175.4—1997 信息技术 开放系统互连 管理信息结构 第4部分:被管客体的定义指南(ISO/IEC 10165-4:1992)

3 定义

本标准采用下列定义:

3.1 事件报告管理功能定义

本标准采用 GB/T 17143.5 中定义的下列术语:

- a) 辨别符 discriminator;
- b) 事件转发辨别符 event forwarding discriminator;
- c) 潜在的事件报告 potential event report。

3.2 管理信息模型定义

本标准采用 GB/T 17175.1 定义的下列术语:

- a) 属性类型 attribute type;
- b) 可辨别名 distinguished name;
- c) 相关可辨别名 relative distinguished name。

4 缩略语

ASN.1	抽象语法记法一
CMIS	公共管理信息服务
CMIP	公共管理信息协议
EFD	事件转发辨别符
Id	标识符
RDU	协议数据单元
RDN	相关可辨别名

5 记法

本标准使用 GB/T 17175.4 定义的模板来定义属性类型和特定属性。

这里描述的特定属性的行为应与引用这些特定属性的被管客体类的定义结合起来。

6 被管客体类定义

本标准定义被管客体类,它由 GB/T 17143 第1部分至第7部分的系统管理功能所引用,或者它为了在其他标准中沿用的被管客体类的定义而作为上级类来使用。模板中引用的属性语法在第13章中定义。

6.1 告警记录

alarmRecord 被管客体类用来定义作为收到告警通知或告警报告的结果而存储在日志中的信息。被管客体类的语义,即其属性与行为来源于 GB/T 17143.4 中描述的告警通知。

alarmRecord MANAGED OBJECT CLASS

DERIVED FROM eventLogRecord;

CHARACTERIZED BY

--The appropriate object identifier values for the eventType attribute, inherited from eventLogRecord

--managed object class are communicationAlarm, qualityofServiceAlarm, processingErrorAlarm,

--equipmentAlarm and environmentalAlarm--

alarmRecordPackage PACKAGE

BEHAVIOUR

alarmRecordBehaviour BEHAVIOUR

DEFINED AS "This managed object is used to represent logged information that resulted from alarm notifications or event reports";

ATTRIBUTES

probableCause GET,

perceivedSeverity GET;;

CONDITIONAL PACKAGES

specificProblemsPackage PACKAGE

ATTRIBUTES

specificProblems GET;

REGISTERED AS {smi2Package 1}; PRESENT IF "the Specific problems parameter is present in the alarm notification or event report corresponding to the instance of alarm record".

backedUpStatusPackage PACKAGE

ATTRIBUTES

backedUpStatus GET;

REGISTERED AS {smi2Package 2}; PRESENT IF "the backedUpStatus attribute has a value TRUE and the Backed up status parameter is present in the alarm notification or event report corresponding to the instance of alarm record",

backUpObjectPackage PACKAGE

ATTRIBUTES

backUpObject GET;

REGISTERED AS {smi2Package 3}; PRESENT IF "Backup object parameter is present in the alarm notification or event report corresponding to the instance of alarm record",

trendIndicationPackage PACKAGE

ATTRIBUTES

trendIndication GET;

REGISTERED AS {smi2Package 4}; PRESENT IF "the Trend indication parameter is present in the alarm notification or event report corresponding to the instance of alarm record",

thresholdInfoPackage PACKAGE

ATTRIBUTES

thresholdInfo GET;

REGISTERED AS {smi2Package 5}; PRESENT IF “the value for probableCause attribute is threshold-Crossed”,

stateChangeDefinitionPackage PACKAGE

ATTRIBUTES

stateChangeDefinition GET;

REGISTERED AS {smi2Package 6}; PRESENT IF “there is a state transition for the states defined in State Management Function, corresponding to the alarm type specified in the alarm record”,

monitoredAttributesPackage PACKAGE

ATTRIBUTES

monitoredAttributes GET;

REGISTERED AS {smi2Package 7}; PRESENT IF “the monitoredAttributes parameter is present in the alarm notification or event report corresponding to the instance of alarm record”,

proposedRepairActionsPackage PACKAGE

ATTRIBUTES

proposedRepairActions GET;

REGISTERED AS {smi2Package 8}; PRESENT IF “the proposedRepairActions parameter is present in the alarm notification or event report corresponding to the instance of alarm record”,

REGISTERED AS {smi2MObjectClass 1};

6.2 属性值改变记录

attribute ValueChangeRecord 被管客体类用来定义作为收到属性值改变通知或属性值改变事件报告的结果存储在日志中的信息。被管客体类的语义, 即其属性和行为来源于 GB/T 17143.1 中描述的属性值改变通知。

attribute ValueChangeRecord MANAGED OBJECT CLASS

DERIVED FROM eventLogRecord;

CHARACTERIZED BY

--The appropriate object identifier values for the eventType attribute, inherited from eventLogRecord

--managed object class is attributeValueChange

attribute ValueChangeRecordPackage PACKAGE

BEHAVIOUR

attribute ValueChangeRecordBehaviour BEHAVIOUR

DEFINED AS “This managed object is used to represent logged information that resulted from attribute value change notifications or event reports”;;

ATTRIBUTES

attribute ValueChangeDefinition GET;;;

CONDITIONAL PACKAGES

sourceIndicatorPackage PRESENT IF “the sourceIndicator parameter is present in the attributeValueChange notification or event report corresponding to the instance of attribute value change record”,

attributeIdentifierListPackage PRESENT IF “the attributeIdentifierList parameter is present in the

attributeValueChange notification or event report corresponding to the instance of attribute value

change record”;

REGISTERED AS {Smi2MObjectClass 2};

6.3 辨别符

discriminator 被管客体类用来定义控制管理服务的准则。被管客体类的语义, 即其属性和行为在 GB/T 17143.5 中描述。

discriminator MANAGED OBJECT CLASS

DERIVED FROM top;

CHARACTERIZED BY

discriminatorPackage PACKAGE

BEHAVIOUR

discriminatorBehaviour BEHAVIOUR

DEFINED AS “This managed object is used to represent the criteria for controlling management services.”;

ATTRIBUTES

discriminatorId GET,

discriminatorConstruct

REPLACE-WITH-DEFAULT

DEFAULT VALUE Attribute-ASN1Module. defaultDiscriminatorConstruct GET-RE-PLACE,

administrativeState GET-REPLACE,

operationalState GET;

NOTIFICATIONS

stateChange,

attribute ValueChange,

objectCreation,

objectDeletion;;

--上述事件在 GB/T 17143.1 GB/T 17143.2 中定义。

CONDITIONAL PACKAGES

availabilityStatusPackage PRESENT IF “any of the scheduling packages, (duration, weekly scheduling, external) are present”,

duration PRESENT IF “the discriminator function is scheduled to start at a specified time and stop at either a specified time or function continuously”,

dailyScheduling PRESENT IF “both the weekly scheduling package and external scheduler packages are not present in an instance and daily scheduling is supported by that instance”,

weeklyScheduling PRESENT IF “both the daily scheduling package and external scheduler packages are not present in an instance and weekly scheduling is supported by that instance”,

externalScheduler PRESENT IF “both the daily scheduling package and weekly scheduling packages are not present in an instance and external scheduling is supported by that instance”;

--关于这种被管客体类的描述见 GB/T 17143.5。

REGISTERED AS {smi2MObjectClass 3};

6.4 事件转发辨别符

eventForwardingDiscriminator 被管客体类用来定义在事件报告转发给特定目的地之前潜在的事件报告应满足的条件。该被管客体类是辨别符被管客体类的子类。受管理类的语义,即其属性、管理操作与行为在 GB/T 17143.5 中描述。

eventForwardingDiscriminator MANAGED OBJECT CLASS

DERIVED FROM discriminator;

CHARACTERIZED BY

--The value for the administrative state if not specified at initiation defaults to the value unlocked.

efdPackage PACKAGE

BEHAVIOUR

eventForwardingDiscriminatorBehaviour BEHAVIOUR

DEFINED AS “This managed object is used to represent the criteria that shall be satisfied by potential event reports before the event report is forwarded to a particular destination.”;;

ATTRIBUTES

destination GET-REPLACE;;;

--辨别符构造属性是使用 GB/T 17143.5 中定义的

--潜在事件报告客体的属性来定义。

CONDITIONAL PACKAGES

backUpDestinationListPackage PACKAGE

ATTRIBUTES

activeDestination GET,

backUpDestinationList GET-REPLACE;

REGISTERED AS {smi2Package 9}; PRESENT IF “the event forwarding discriminator is required to provide a backup for the destination”,

modePackage PACKAGE

ATTRIBUTES

confirmedMode GET;

REGISTERED AS {smi2Package 10}; PRESENT IF “the event forwarding discriminator permits mode for reporting events to be specified by the managing system”;

REGISTERED AS {smi2MObjectClass 4};

6.5 事件日志记录

eventLogRecord 被管客体类用来定义作为收到通知或事件报告的结果而存储在日志中的信息。这是导出特定事件类型记录的上级类。

eventLogRecord MANAGED OBJECT CLASS

DERIVED FROM logRecord;

CHARACTERIZED BY

eventLogRecordPackage PACKAGE

BEHAVIOUR

eventLogRecordBehaviour BEHAVIOUR

DEFINED AS “This managed object represents the information stored in the log as a result of receiving notifications or incoming event reports.”;;

ATTRIBUTES

managedObjectClass GET,
 managedObjectInstance GET,
 eventType GET;;;

CONDITIONAL PACKAGES

eventTimePackage PACKAGE

ATTRIBUTES

eventTime GET;

REGISTERED AS {smi2Package 11}; PRESENT IF “the event time parameter was present in the received event report”,

notificationIdentifierPackage PRESENT IF “the notification Identifier parameter is present in the notification or event report corresponding to the instance of an event record or an instance of its subclasses”,

correlatedNotificationsPackage PRESENT IF “the correlatedNotifications parameter is present in the notification or event report corresponding to the instance of an event record or an instance of its subclasses”,

additionalTextPackage PRESENT IF “the Additional text parameter is present in the notification or report corresponding to the instance of event record or an instance of its subclasses”,

additionalInformationPackage PRESENT IF “the Additional information parameter is present in the notification or report corresponding to the instance of event record or an instance of its subclasses”;

REGISTERED AS {smi2MObjectClass 5};

6.6 日志

Log 被管客体类用来定义在开放系统中控制日志信息的准则。被管客体类的语义,即其属性与行为在 GB/T 17143.6 中描述。

log MANAGED OBJECT CLASS

DERIVED FROM top;

CHARACTERIZED BY

--关于这种被管客体类的描述见 GB/T 17143.6。

logPackage PACKAGE

BEHAVIOUR

logBehaviour BEHAVIOUR

DEFINED AS “这种被管客体用于存储入事件报告和本地系统通知。详情见 GB/T 17143.6 中定义”;;

ATTRIBUTES

logId GET,

discriminatorConstruct GET-REPLACE,

administrativeState GET-REPLACE,

operationalState GET,

availabilityStatus PERMITTED VALUES Attribute-ASN1Module. LogAvailability
 REQUIRED VALUES Attribute-ASN1Module. Unscheduled-

LogAvailability GET,
 logFullAction GET-REPLACE;
 NOTIFICATIONS
 objectCreation,
 objectDeletion,
 attributeValueChange,
 stateChange,
 processingErrorAlarm;;

CONDITIONAL PACKAGES

finiteLogSizePackage PACKAGE

ATTRIBUTES

maxLogSize GET-REPLACE,
 currentLogSize GET,
 numberOfRecords GET;

REGISTERED AS {smi2Package 12}; PRESENT IF "an instance supports it",

logAlarmPackage PACKAGE

ATTRIBUTES

capacityAlarmThreshold GET-REPLACE ADD-REMOVE;

REGISTERED AS {smi2Package 13}; PRESENT IF "a log is of finite size and halts logging when the availability status has the log full value.",

availabilityStatusPackage PRESENT IF "any of the scheduling packages, (duration, weekly scheduling, external) are present. The presence of this package makes available the off-duty value of the available status attribute to the object.",

duration PRESENT IF "the logging function is scheduled to start at a specified time and stop at either a specified time of function continuously.",

dailyScheduling PRESENT IF "both the weekly scheduling package and external scheduler packages are not present in an instance and daily scheduling is supported by that instance.",

weeklyScheduling PRESENT IF "both the daily scheduling package and external scheduler packages are not present in an instance and weekly scheduling is supported by that instance.",

externalScheduler PRESENT IF "both the daily scheduling package and weekly scheduling packages are not present in an instance and external scheduling is supported by that instance.";

REGISTERED AS {smi2MObjectClass 6};

6.7 日志记录

LogRecord 被管客体类用来定义包括在日志被管客体中的记录。被管客体类的语义, 即其属性与行为在 GB/T 17143.6 中描述。

logRecord MANAGED OBJECT CLASS

DERIVED FROM top;

CHARACTERIZED BY

logRecordPackagePACKAGE

BEHAVIOUR

logRecordBehaviour BEHAVIOUR

DEFINED AS "This managed object represents the information stored in the logs";;

ATTRIBUTES

logRecordId GET,

loggingTime GET;;;

REGISTERED AS {smi2MObjectClass 7};

6.8 客体创建记录

objectCreationRecord 被管客体类用来定义作为收到客体创建通知或客体创建事件报告的结果而存储在日志中的信息。被管客体类的语义,即其属性与行为来源于 GB/T 17143.1中描述的客体创建通知。

objectCreationRecord MANAGED OBJECT CLASS

DERIVED FROM eventLogRecord;

CHARACTERIZED BY

--The appropriate object identifier value for the eventType attribute, inherited from eventLogRecord

--managed object class, is objectCreation

objectCreationRecordPackage PACKAGE

BEHAVIOUR

objectCreationRecordBehaviour BEHAVIOUR

DEFINED AS "This managed object is used to represent logged information that resulted from object creation notifications or event reports" ;;;

CONDITIONAL PACKAGES

sourceIndicatorPackage PRESENT IF "the sourceIndicator parameter is present in the object creation notification or event report corresponding to the instance of object creation record",

attributeListPackage PRESENT IF "the attributeList parameter is present in the object creation notification or event report corresponding to the instance of object creation record";

REGISTERED AS {smi2MObjectClass 8};

6.9 客体删除记录

objectDeletionRecord 被管客体类用来定义作为收到客体删除通知或客体删除事件报告的结果而存储在日志中的信息。被管客体类语义,即其属性与行为来源于 GB/T 17143.1所描述的客体删除通知。

objectDeletionRecord MANAGED OBJECT CLASS

DERIVED FROM eventLogRecord;

CHARACTERIZED BY

--The appropriate object identifier value for the eventType attribute, inherited from eventLogRecord

--managed object class, is objectDeletion

objectDeletionRecordPackage PACKAGE

BEHAVIOUR

objectDeletionRecordBehaviour BEHAVIOUR

DEFINED AS" This managed object is used to represent logged information that resulted from object deletion notifications or event reports" ; ; ;

CONDITIONAL PACKAGES

sourceIndicatorPackage PRESENT IF "the sourceIndicator parameter is present in the object deletion notification or event report corresponding to the instance of object deletion record",

attributeListPackage PRESENT IF "the attributeList parameter is present in the object deletion notification or event report corresponding to the instance of object deletion record";

REGISTERED AS {smi2MObjectClass 9};

6.10 关系改变记录

relationshipChangeRecord 被管客体类用来定义作为收到关系改变通知或关系改变事件报告的结果而存储在日志中的信息。被管客体类的语义,即其属性及行为来源于 GB/T 17143.3描述的关系改变通知。

relationshipChangeRecord MANAGED OBJECT CLASS

DERIVED FROM eventLogRecord;

--The appropriate object identifier value for the eventType attribute, inherited from eventLogRecord

--managed object class, is relationshipChange

CHARACTERIZED BY

relationshipChangeRecordPackage PACKAGE

BEHAVIOUR

relationshipChangeRecordBehaviour BEHAVIOUR

DEFINED AS" This managed object is used to represent logged information that resulted from relationship change notifications or event reports" ; ;

ATTRIBUTES

relationshipChangeDefinition GET ; ; ;

CONDITIONAL PACKAGES

sourceIndicatorPackage PRESENT IF "the Source indicator parameter is present in the relationshipChange notification or event report corresponding to the instance of relationship change record",

attributeIdentifierListPackage PRESENT IF "the Attribute identifier list parameter is present in the relationshipChange notification or event report corresponding to the instance of relationship change record";

REGISTERED AS {smi2MObjectClass 10};

6.11 安全告警报告记录

securityAlarmReportRecord 被管客体类用来定义作为收到安全告警通知或安全事件报告的结果存储在日志中的信息。被管客体类的语义,即其属性及行为,来源于 GB/T 17143.7描述的安全告警通知。

securityAlarmReportRecord MANAGED OBJECT CLASS

DERIVED FROM eventLogRecord;

CHARACTERIZED BY

--The appropriate object identifier values for the eventType attribute, inherited from eventLogRecord

--managed object class,are integrityViolation,operationalViolation,physicalViolation,

--securityServiceOrMechanismViolation and timeDomainViolation--

securityAlarmRecordPackage PACKAGE

BEHAVIOUR

securityAlarmReportRecordBehaviour BEHAVIOUR

DEFINED AS" This managed object is used to represent logged information that resulted from security alarm notifications or event reports" ; ;

ATTRIBUTES

securityAlarmCause GET,

securityAlarmSeverity GET,

securityAlarmDetector GET,

serviceUser GET,

serviceProvider GET ; ; ;

REGISTERED AS {smi2MObjectClass 11};

6.12 状态改变记录

stateChangeRecord 被管客体类用来定义作为收到状态改变通知或状态改变事件报告的结果而存储在日志中的信息。被管客体类的语义,即其属性及行为,来源于 GB/T 17143.2描述的状态改变通知。

stateChangeRecord MANAGED OBJECT CLASS

DERIVED FROM eventLogRecord;

--The appropriate object identifier value for the eventType attribute,inherited from eventLogRecord

--managed object class,is stateChange

CHARACTERIZED BY

stateChangeRecordPackage PACKAGE

BEHAVIOUR

stateChangeRecordBehaviour BEHAVIOUR

DEFINED AS" This managed object is used to represent logged information that resulted from state change notifications or event reports" ; ;

ATTRIBUTES

stateChangeDefinition GET ; ; ;

CONDITIONAL PACKAGES

sourceIndicatorPackage PRESENT IF" the Source indicator parameter is present in the stateChange notification or event report corresponding to the instance of state change record",

attributeIdentifierListPackage PRESENT IF" the Attribute identifierList parameter is present in the stateChange notification or event report corresponding to the instance of state change record" ;

REGISTERED AS {smi2MObjectClass 12};

6.13 系统

system 被管客体类用来表示一组硬件与软件,它们形成能执行信息处理和/或信息传送的自治整体。

用来构造系统被管客体的可辨别名的名字联编序列说明不在本标准范围内。系统名称举例在

GB/T 17143.1中规定。

注：该定义不对应于开放实系统，但对应于 GB 9387的实系统。

被管客体类的实例可以用作表示该实例内所包括的信息处理和信息传送资源的被管客体中的上级。

```

system      MANAGED OBJECT CLASS
DERIVED FROM top;
CHARACTERIZED BY
systemPackage  PACKAGE
  ATTRIBUTES
    systemId GET;
    systemTitle  GET;
    operationalState  GET usageState  GET;;;
CONDITIONAL PACKAGES
  administrativeStatePackage  PACKAGE
  ATTRIBUTES
    administrativeState  GET-REPLACE;
  REGISTERED AS{smi2Package 14};  PRESENT IF"an instance supports it.",
  supportedFeaturesPackage  PACKAGE
  ATTRIBUTES
    supportedFeatures  GET-REPLACE ADD-REMOVE;
  REGISTERED AS{smi2Package 15};PRESENT IF "an instance supports it.";
REGISTERED AS{smi2MObjectClass 13};

```

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top 被管客体类是指每个其他被管客体类都是其子类的类。

属性客体类、包、名字联编及同质异性的语义在 GB/T 17143.1中定义。

```

top      MANAGED OBJECT CLASS

```

```

CHARACTERIZED BY

```

```

topPackage  PACKAGE
  BEHAVIOUR
    topBehaviour;
  ATTRIBUTES
    objectClass GET;
    nameBinding  GET;;;

```

```

CONDITIONAL PACKAGES

```

```

  packagesPackage  PACKAGE
  ATTRIBUTES
    packages  GET;
  REGISTERED AS{smi2Package 16};
  PRESENT IF"any registered package,other than this package has been instantiated",
  allomorphicPackage  PACKAGE
  ATTRIBUTES
    allomorphs  GET;

```