

# 中华人民共和国通信行业标准

YD/T 1350.3-2005

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## 波分复用(WDM)系统网络管理接口技术要求 第三部分:基于 GDMO/CMIP 的信息模型部分

Technical specification of WDM network management interface  
Part 3: Information model based on GDMO/CMIP part

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## 前 言

《波分复用（WDM）系统网络管理接口技术要求》标准分为4部分，该标准的结构及名称如下：

1. YD/T 1350.1 波分复用（WDM）系统网络管理接口技术要求 第一部分：接口功能部分；
2. YD/T 1350.2 波分复用（WDM）系统网络管理接口技术要求 第二部分：通用信息模型部分；
3. YD/T 1350.3 波分复用（WDM）系统网络管理接口技术要求 第三部分：基于GDMO/CMIP的信息模型部分；
4. YD/T 1350.4 波分复用（WDM）系统网络管理接口技术要求 第四部分：基于IDL/PIOP的信息模型部分。

本部分结合国内需求制定。本部分是《波分复用系统网络管理接口技术要求》标准的第三部分。

本部分非等效采用ITU-T G.774 SDH网元层管理信息模型、ITU-T M.3100 通用网络信息模型等国际标准。

本部分由中国通信标准化协会提出并归口。

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# 波分复用（WDM）系统网络管理接口技术要求

## 第三部分：基于 GDMO/CMIP 的信息模型部分

### 1 范围

本部分根据“波分复用（WDM）系统网络管理接口技术要求 第一部分：接口功能部分”中定义的管理功能需求，规范了波分复用（WDM）系统的网元管理系统（EMS）与网络管理系统（NMS）之间交换管理信息采用CMIP协议的信息模型。

本部分适用于规范、设计和开发WDM网元管理系统的向上接口部分和WDM网络管理系统的向下接口部分。

### 2 规范性引用文件

下列文件中的条款通过本部分的引用而成为本部分的条款。凡是注日期的引用文件，其随后所有的修改单（不包括勘误的内容）或修订版均不适用于本部分，然而，鼓励根据本部分达成协议的各方研究是否可使用这些文件的最新版本。凡是不注日期的引用文件，其最新版本适用于本部分。

ITU-T M.3100 (1995)	通用网络信息模型
ITU-T X.721 (1992)	管理信息定义
ITU-T Q.821 (1994)	告警监视
ITU-T Q.822 (1994)	性能管理
ITU-T G.774 (1992)	SDH网元层管理信息模型
ITU-T X.738 (1993)	系统管理：概要功能
ITU-T X.739 (1993)	系统管理：距离对象和属性
ITU-T Q.811 (1993)	Q3和X接口的低层协议框架
ITU-T Q.812 (1993)	Q3和X接口的高层协议框架

### 3 管理对象类（Managed Object Classes）

emsAgent MANAGED OBJECT CLASS

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": top;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": userLabelPackage,  
 "ITU-T Rec. M.3100:1995": locationNamePackage,  
 "ITU-T Rec. M.3100:1995": versionPackage,  
 "ITU-T Rec. M.3100:1995": vendorNamePackage,  
 platformInfoPkg,  
 emsAgentPkg PACKAGE

BEHAVIOUR

emsAgentBeh BEHAVIOUR

DEFINED AS

" " ;;

ATTRIBUTES

emsAgentId GET,

emsAgentLabel GET-REPLACE,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": startTime GET,

addressInfo GET-REPLACE,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": operationalState GET,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": usageState GET;

ACTIONS

backUpSoftwareAndDatabase,

restoreSoftwareAndDatabase,

downLoadSoftware,

synchronizeTime;

NOTIFICATIONS

"Rec. X.721 | ISO/IEC 10165-2 : 1992": attributeValueChange,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": stateChange,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": processingErrorAlarm,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": communicationsAlarm,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": integrityViolation,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": operationalViolation,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": physicalViolation,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": securityServiceOrMechanismViolation,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": timeDomainViolation;;;

REGISTERED AS { ctsiWDMObjectClass 1 };

emsUser MANAGED OBJECT CLASS

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": top;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,

emsUserPkg PACKAGE

BEHAVIOUR

emsUserBeh BEHAVIOUR

DEFINED AS

## ATTRIBUTES

EmsUserId GET,  
 emsUserPwd GET,  
 userEffectiveTime GET-REPLACE;

## ACTIONS

changePassword;;;

REGISTERED AS { ctsiWDMObjectClass 2 };

## historyDataControl MANAGED OBJECT CLASS

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": top;

## CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,  
 historyDataControlPkg PACKAGE

## BEHAVIOUR

historyDataControlBeh BEHAVIOUR

## DEFINED AS

" ";;

## ATTRIBUTES

historyDataControlId GET,  
 historyDataCapacity GET-REPLACE;  
 -- "Rec. X.721 | ISO/IEC 10165-2 : 1992": capacityAlarmThreshold GET-REPLACE;

## NOTIFICATIONS

"Rec. X.721 | ISO/IEC 10165-2 : 1992": processingErrorAlarm;;;

REGISTERED AS { ctsiWDMObjectClass 3 };

## wdmNE MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": managedElementR1;

## CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": userLabelPackage,  
 "ITU-T Rec. M.3100:1995": locationNamePackage,  
 "ITU-T Rec. M.3100:1995": versionPackage,  
 "ITU-T Rec. M.3100:1995": vendorNamePackage,  
 "ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,  
 "ITU-T Rec. M.3100:1995": stateChangeNotificationPackage,  
 "ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,  
 circuitPackListPkg,

wdmNEPkg PACKAGE

BEHAVIOUR

wdmNEBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

WdmNEId GET,

neName GET-REPLACE,

neType GET,

creationTime GET,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": alarmStatus GET;

ACTIONS

changeNEName;

NOTIFICATIONS

"Rec. X.721 | ISO/IEC 10165-2 : 1992": equipmentAlarm,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": environmentalAlarm,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": communicationsAlarm;;;

REGISTERED AS { ctsiWDMObjectClass 4 };

trunkSubNetwork MANAGED OBJECT CLASS

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": top;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,

trunkSubNetworkPkg PACKAGE

BEHAVIOUR

trunkSubNetworkBeh BEHAVIOUR

DEFINED AS

" 本对象用于描述一个 WDM 干线子网" ;;

ATTRIBUTES

TrunkSubNetworkId GET,

trunkName GET-REPLACE,

"ITU-T Rec. M.3100:1995": userLabel GET-REPLACE;;;

REGISTERED AS { ctsiWDMObjectClass 5 };

nodeMANAGED OBJECT CLASS

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992":top;

## CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": locationNamePackage,  
 "ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,  
 "ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,

nodePkg PACKAGE

## BEHAVIOUR

nodeBeh BEHAVIOUR

## DEFINED AS

" " ;;

## ATTRIBUTES

nodeId GET,  
 nodeLabel GET-REPLACE,  
 neList GET,  
 nodeTypeGET;;;

REGISTERED AS { ctsiWDMObjectClass 6 };

## link MANAGED OBJECT CLASS

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": top;

## CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,  
 "ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,  
 "ITU-T Rec. M.3100:1995": tmnCommunicationsAlarmInformationPackage,

linkPkg PACKAGE

## BEHAVIOUR

linkBeh BEHAVIOUR

## DEFINED AS

" " ;;

## ATTRIBUTES

linkId GET,  
 linkLabel GET-REPLACE,  
 linkType GET,  
 linkRate GET,  
 linkDirection GET-REPLACE,  
 aEndInfo GET,  
 zEndInfo GET;;;

REGISTERED AS { ctsiWDMObjectClass 7 };



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ochCTPBid   MANAGED OBJECT CLASS

DERIVED FROM ochCTPSink,

ochCTPSource;

REGISTERED AS { ctsiWDMObjectClass 8 };

ochCTPSink   MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,

ochCTPPkg,

ochCTPSinkPkg   PACKAGE

BEHAVIOUR

ochCTPSinkBeh   BEHAVIOUR

DEFINED AS

"   ";;

ATTRIBUTES

ochCTPId    GET;;;

REGISTERED AS { ctsiWDMObjectClass 9 };

ochCTPSource   MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,

ochCTPPkg,

ochCTPSourcePkg   PACKAGE

BEHAVIOUR

ochCTPSourceBeh   BEHAVIOUR

DEFINED AS

"   ";;

ATTRIBUTES

ochCTPId    GET;;;

REGISTERED AS { ctsiWDMObjectClass 10 };

ochTTPBid   MANAGED OBJECT CLASS

DERIVED FROM ochTTPSink,

ochTTPSource;

REGISTERED AS { ctsiWDMObjectClass 11 };

**ochTTPSink** MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": trailTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

--"ITU-T Rec. M.3100:1995": tmnCommunicationAlarmInformationPackage,

ochTTPSinkPkg PACKAGE

BEHAVIOUR

ochTTPSinkBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

ochTTPId GET;;;

REGISTERED AS { ctsiWDMObjectClass 12 };

**ochTTPSource**MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": trailTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

-- "ITU-T Rec. M.3100:1995": tmnCommunicationAlarmInformationPackage,

ochTTPSourcePkg PACKAGE

BEHAVIOUR

ochTTPSourceBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

ochTTPId GET;;;

REGISTERED AS { ctsiWDMObjectClass 13 };

**omsCTPBid** MANAGED OBJECT CLASS

DERIVED FROM omsCTPSink,

omsCTPSource;

REGISTERED AS { ctsiWDMObjectClass 14 };

**omsCTPSink** MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,

omsCTPPkg,

omsCTPSinkPkg PACKAGE

BEHAVIOUR

omsCTPSinkBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

omsCTPId GET;;;

REGISTERED AS { ctsiWDMObjectClass 15 };

omsCTPSource MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,

omsCTPPkg,

omsCTPSourcePkg PACKAGE

BEHAVIOUR

OmsCTPSourceBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

omsCTPId GET;;;

REGISTERED AS { ctsiWDMObjectClass 16 };

omsTTPBid MANAGED OBJECT CLASS

DERIVED FROM omsTTPSink,

omsTTPSource;

REGISTERED AS { ctsiWDMObjectClass 17 };

omsTTPSink MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": trailTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,  
 --"ITU-T Rec. M.3100:1995": tmnCommunicationAlarmInformationPackage,  
 omsTTPSinkPkg PACKAGE

#### BEHAVIOUR

omsTTPSinkBeh BEHAVIOUR

DEFINED AS

" ";;

#### ATTRIBUTES

OmsTTPId GET;;

REGISTERED AS { ctsiWDMObjectClass 18 };

omsTTPSource MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": trailTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

--"ITU-T Rec. M.3100:1995": tmnCommunicationAlarmInformationPackage,

omsTTPSourcePkg PACKAGE

#### BEHAVIOUR

OmsTTPSourceBeh BEHAVIOUR

DEFINED AS

" ";;

#### ATTRIBUTES

OmsTTPId GET;;

REGISTERED AS { ctsiWDMObjectClass 19 };

otsTTPBid MANAGED OBJECT CLASS

DERIVED FROM otsTTPSink,

otsTTPSource;

REGISTERED AS { ctsiWDMObjectClass 20 };

otsTTPSink MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": trailTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

--"ITU-T Rec. M.3100:1995": tmnCommunicationAlarmInformationPackage,

otsTTPPkg,

otsTTPSinkPkg PACKAGE

BEHAVIOUR

OtsTTPSinkBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

otsTTPId GET;;

REGISTERED AS { ctsiWDMObjectClass 21 };

otsTTPSource MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": trailTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

--"ITU-T Rec. M.3100:1995": tmnCommunicationAlarmInformationPackage,

otsTTPPkg,

otsTTPSourcePkg PACKAGE

BEHAVIOUR

otsTTPSourceBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

otsTTPId GET;;

REGISTERED AS { ctsiWDMObjectClass 22 };

oscCTPBid MANAGED OBJECT CLASS

DERIVED FROM oscCTPSink,

oscCTPSource;

REGISTERED AS { ctsiWDMObjectClass 23 };

oscCTPSink MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

oscInfoPkg,

oscCTPSinkPkg PACKAGE

BEHAVIOUR

OscCTPSinkBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

oscCTPId GET;;

REGISTERED AS { ctsiWDMObjectClass 24 };

oscCTPSource MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

oscInfoPkg,

oscCTPSourcePkg PACKAGE

BEHAVIOUR

oscCTPSourceBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

oscCTPIdGET;;

REGISTERED AS { ctsiWDMObjectClass 25 };

oscTTPBid MANAGED OBJECT CLASS

DERIVED FROM oscTTPSink,

oscTTPSource;

REGISTERED AS { ctsiWDMObjectClass 26 };

oscTTPSink MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": trailTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

--"ITU-T Rec. M.3100:1995": tmnCommunicationAlarmInformationPackage,

oscTTPSinkPkg PACKAGE

BEHAVIOUR

OscTTPSinkBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

OscTTPId GET;;

REGISTERED AS { ctsiWDMObjectClass 27 };

OscTTPSource MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": trailTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

--"ITU-T Rec. M.3100:1995": tmnCommunicationAlarmInformationPackage,

oscTTPSourcePkg PACKAGE

BEHAVIOUR

oscTTPSourceBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

OscTTPId GET;;;

REGISTERED AS { ctsiWDMObjectClass 28 };

wdmOPICTPBid MANAGED OBJECT CLASS

DERIVED FROM wdmOPICTPSink,

wdmOPICTPSource;

REGISTERED AS { ctsiWDMObjectClass 29 };

wdmOPICTPSink MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,

wdmOPICTPPkg,

wdmOPICTPSinkPkg PACKAGE

BEHAVIOUR

wdmOPICTPSinkBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

WdmOPICTPId GET;;;

REGISTERED AS { ctsiWDMObjectClass 30 };

**wdmOPICTPSource    MANAGED OBJECT CLASS**

**DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSource;**

**CHARACTERIZED BY**

**"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,**

**"ITU-T Rec. M.3100:1995": attributeValueChangeNotificationPackage,**

**wdmOPICTPPkg,**

**wdmOPICTPSourcePkg PACKAGE**

**BEHAVIOUR**

**WdmOPICTPSourceBeh BEHAVIOUR**

**DEFINED AS**

**"        ";;**

**ATTRIBUTES**

**WdmOPICTPId GET;;;**

**REGISTERED AS { ctsiWDMObjectClass 31 };**

**omsOrderwireCTPBid    MANAGED OBJECT CLASS**

**DERIVED FROM omsOrderwireCTPSink,**

**omsOrderwireCTPSource;**

**REGISTERED AS { ctsiWDMObjectClass 32 };**

**omsOrderwireCTPSink    MANAGED OBJECT CLASS**

**DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSink;**

**CHARACTERIZED BY**

**"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,**

**omsOrderwireCTPSinkPkg    PACKAGE**

**BEHAVIOUR**

**omsOrderwireCTPSinkBeh    BEHAVIOUR**

**DEFINED AS**

**"        ";;**

**ATTRIBUTES**

**OmsOrderwireCTPId GET;;;**

**REGISTERED AS { ctsiWDMObjectClass 33 };**

**omsOrderwireCTPSource    MANAGED OBJECT CLASS**

**DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSource;**

**CHARACTERIZED BY**

**"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,**



omsOrderwireCTPSourcePkg PACKAGE

BEHAVIOUR

omsOrderwireCTPSourceBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

OmsOrderwireCTPId GET;;

REGISTERED AS { ctsiWDMObjectClass 34 };

OtsOrderwireCTPBid MANAGED OBJECT CLASS

DERIVED FROM otsOrderwireCTPSink,

otsOrderwireCTPSource;

REGISTERED AS { ctsiWDMObjectClass 35 };

otsOrderwireCTPSink MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

otsOrderwireCTPSinkPkg PACKAGE

BEHAVIOUR

otsOrderwireCTPSinkBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

otsOrderwireCTPId GET;;

REGISTERED AS { ctsiWDMObjectClass 36 };

otsOrderwireCTPSource MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

otsOrderwireCTPSourcePkg PACKAGE

BEHAVIOUR

otsOrderwireCTPSourceBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

otsOrderwireCTPId GET;;;

REGISTERED AS { ctsiWDMObjectClass 37 };

omsUserChannelCTPBid     MANAGED OBJECT CLASS

DERIVED FROM omsUserChannelCTPSink,

omsUserChannelCTPSource;

REGISTERED AS { ctsiWDMObjectClass 38 };

omsUserChannelCTPSink   MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

omsUserChannelCTPSinkPkg     PACKAGE

BEHAVIOUR

omsUserChannelCTPSinkBeh     BEHAVIOUR

DEFINED AS

"     ";;

ATTRIBUTES

omsUserChannelCTPId GET;;;

REGISTERED AS { ctsiWDMObjectClass 39 };

omsUserChannelCTPSource   MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

omsUserChannelCTPSourcePkg   PACKAGE

BEHAVIOUR

omsUserChannelCTPSourceBeh   BEHAVIOUR

DEFINED AS

"     ";;

ATTRIBUTES

OmsUserChannelCTPId   GET;;;

REGISTERED AS { ctsiWDMObjectClass 40 };

OtsUserChannelCTPBid   MANAGED OBJECT CLASS

DERIVED FROM otsUserChannelCTPSink,

otsUserChannelCTPSource;

REGISTERED AS { ctsiWDMObjectClass 41 };

otsUserChannelCTPSink      MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSink;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

otsUserChannelCTPSinkPkg PACKAGE

BEHAVIOUR

OtsUserChannelCTPSinkBeh      BEHAVIOUR

DEFINED AS

"      ";;

ATTRIBUTES

otsUserChannelCTPId      GET,

userDataChannelRate      GET;;;

REGISTERED AS { ctsiWDMObjectClass 42 };

otsUserChannelCTPSource      MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. M.3100:1995": connectionTerminationPointSource;

CHARACTERIZED BY

"ITU-T Rec. M.3100:1995": createDeleteNotificationsPackage,

otsUserChannelCTPSourcePkg      PACKAGE

BEHAVIOUR

otsUserChannelCTPSourceBeh      BEHAVIOUR

DEFINED AS

"      ";;

ATTRIBUTES

otsUserChannelCTPId      GET,

userDataChannelRate      GET;;;

REGISTERED AS { ctsiWDMObjectClass 43 };

ochCurrentData      MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. Q.822:1994": currentData;

CHARACTERIZED BY

"ITU-T Rec. Q.822:1994": scheduledPMReportPkg,

"ITU-T Rec. Q.822:1994": thresholdPkg,

ochCurrentDataPkgPACKAGE

BEHAVIOUR

ochCurrentDataBehBEHAVIOUR

DEFINED AS

" ";;

#### ATTRIBUTES

waveLength GET,

"ITU-T Rec. G.774.01:1994": laserBias GET,

"ITU-T Rec. G.774.01:1994": laserBiasTideMarkMax GET,

"ITU-T Rec. G.774.01:1994": laserBiasTideMarkMin GET,

"ITU-T Rec. G.774.01:1994": laserTemperature GET,

"ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMax GET,

"ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMin GET,

laserBackfaceOpticalPower GET,

"ITU-T Rec. G.774.01:1994": eS GET,

"ITU-T Rec. G.774.01:1994": sES GET,

"ITU-T Rec. G.774.01:1994": uAS GET,

"ITU-T Rec. G.774.01:1994": oFS GET;;;

#### CONDITIONAL PACKAGES

receivePowerLevelPkg PRESENT IF " ",

transmitPowerLevelPkg PRESENT IF " ";

REGISTERED AS { ctsiWDMObjectClass 44 };

#### OchHistoryData MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. Q.822:1994": historyData;

CHARACTERIZED BY

ochHistoryDataPkg PACKAGE

#### BEHAVIOUR

ochHistoryDataBeh BEHAVIOUR

DEFINED AS

" ";;

#### ATTRIBUTES

waveLength GET,

"ITU-T Rec. G.774.01:1994": laserBias GET,

"ITU-T Rec. G.774.01:1994": laserBiasTideMarkMax GET,

"ITU-T Rec. G.774.01:1994": laserBiasTideMarkMin GET,

"ITU-T Rec. G.774.01:1994": laserTemperature GET,

"ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMax GET,

"ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMin GET,

```

laserBackfaceOpticalPower  GET,
"ITU-T Rec. G.774.01:1994": eS          GET,
"ITU-T Rec. G.774.01:1994": sES        GET,
"ITU-T Rec. G.774.01:1994": uAS        GET,
"ITU-T Rec. G.774.01:1994": oFS GET;;;

```

CONDITIONAL PACKAGES

```

receivePowerLevelPkg  PRESENT IF "  ",
transmitPowerLevelPkg  PRESENT IF "  ";

```

REGISTERED AS { ctsiWDMObjectClass 45 };

omsCurrentData MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. Q.822:1994": currentData;

CHARACTERIZED BY

```

"ITU-T Rec. Q.822:1994": scheduledPMReportPkg,
"ITU-T Rec. Q.822:1994": thresholdPkg,
omsCurrentDataPkg  PACKAGE

```

BEHAVIOUR

omsCurrentDataBeh BEHAVIOUR

DEFINED AS

" "....  
";

CONDITIONAL PACKAGES

```

receivePowerLevelPkg  PRESENT IF "  ",
transmitPowerLevelPkg  PRESENT IF "  ",
channelReceivePowerLevelPkg  PRESENT IF "",
channelTransmitPowerLevelPkg  PRESENT IF "  ";

```

REGISTERED AS { ctsiWDMObjectClass 46 };

OmsHistoryData MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. Q.822:1994": historyData;

CHARACTERIZED BY

OmsHistoryDataPkg PACKAGE

BEHAVIOUR

OmsHistoryDataBeh BEHAVIOUR

DEFINED AS

" "....  
";

CONDITIONAL PACKAGES

```

receivePowerLevelPkg  PRESENT IF "  ",

```

transmitPowerLevelPkg PRESENT IF " ",  
 channelReceivePowerLevelPkg PRESENT IF " ",  
 channelTransmitPowerLevelPkg PRESENT IF " ";

REGISTERED AS { ctsiWDMObjectClass 47 };

OtsCurrentData MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. Q.822:1994": currentData;

CHARACTERIZED BY

"ITU-T Rec. Q.822:1994": scheduledPMReportPkg,  
 "ITU-T Rec. Q.822:1994": thresholdPkg,  
 receivePowerLevelPkg,  
 transmitPowerLevelPkg,  
 otsCurrentDataPkg PACKAGE

BEHAVIOUR

otsCurrentDataBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

"ITU-T Rec. G.774.01:1994": laserTemperature GET,  
 "ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMax GET,  
 "ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMin GET,  
 "ITU-T Rec. G.774.01:1994": laserBias GET,  
 "ITU-T Rec. G.774.01:1994": laserBiasTideMarkMax GET,  
 "ITU-T Rec. G.774.01:1994": laserBiasTideMarkMin GET,  
 channelOSNR GET;;;

REGISTERED AS { ctsiWDMObjectClass 48 };

otsHistoryData MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. Q.822:1994": historyData;

CHARACTERIZED BY

receivePowerLevelPkg,  
 transmitPowerLevelPkg,  
 otsHistoryDataPkg PACKAGE

BEHAVIOUR

otsHistoryDataBeh BEHAVIOUR

DEFINED AS

" ";;

# ATTRIBUTES

"ITU-T Rec. G.774.01:1994": laserTemperature GET,  
 "ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMax GET,  
 "ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMin GET,  
 "ITU-T Rec. G.774.01:1994": laserBias GET,  
 "ITU-T Rec. G.774.01:1994": laserBiasTideMarkMax GET,  
 "ITU-T Rec. G.774.01:1994": laserBiasTideMarkMin GET,  
 channelOSNR GET;;;

REGISTERED AS { ctsiWDMObjectClass 49 };

## oscCurrentData MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. Q.822:1994": currentData;

### CHARACTERIZED BY

"ITU-T Rec. Q.822:1994": scheduledPMReportPkg,  
 "ITU-T Rec. Q.822:1994": thresholdPkg,  
 transmitPowerLevelPkg,

oscCurrentDataPkg PACKAGE

### BEHAVIOUR

OscCurrentDataBeh BEHAVIOUR

DEFINED AS

" ";;

# ATTRIBUTES

"ITU-T Rec. G.774.01:1994": laserTemperature GET,  
 "ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMax GET,  
 "ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMin GET,  
 "ITU-T Rec. G.774.01:1994": laserBias GET,  
 "ITU-T Rec. G.774.01:1994": laserBiasTideMarkMax GET,  
 "ITU-T Rec. G.774.01:1994": laserBiasTideMarkMin GET,  
 "ITU-T Rec. G.774.01:1994": Es GET,  
 "ITU-T Rec. G.774.01:1994": sES GET,  
 "ITU-T Rec. G.774.01:1994": uAS GET,  
 "ITU-T Rec. G.774.01:1994": oFS GET;;;

REGISTERED AS { ctsiWDMObjectClass 50 };

## oscHistoryData MANAGED OBJECT CLASS

DERIVED FROM "ITU-T Rec. Q.822:1994": historyData;

### CHARACTERIZED BY

transmitPowerLevelPkg,

oscHistoryDataPkg PACKAGE

BEHAVIOUR

OscHistoryDataBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

"ITU-T Rec. G.774.01:1994": laserTemperature GET,

"ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMax GET,

"ITU-T Rec. G.774.01:1994": laserTemperatureTideMarkMin GET,

"ITU-T Rec. G.774.01:1994": laserBias GET,

"ITU-T Rec. G.774.01:1994": laserBiasTideMarkMax GET,

"ITU-T Rec. G.774.01:1994": laserBiasTideMarkMin GET,

"ITU-T Rec. G.774.01:1994": eS GET,

"ITU-T Rec. G.774.01:1994": sES GET,

"ITU-T Rec. G.774.01:1994": uAS GET,

"ITU-T Rec. G.774.01:1994": oFS GET;;;

REGISTERED AS { ctsiWDMObjectClass 51 };

nmsSystem MANAGED OBJECT CLASS

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": top;

CHARACTERIZED BY

nmsSystemPkg PACKAGE

BEHAVIOUR

nmsSystemBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

"Rec. X.721 | ISO/IEC 10165-2 : 1992": systemId GET,

"Rec. X.721 | ISO/IEC 10165-2 : 1992": systemTitle GET-REPLACE;;;

REGISTERED AS { ctsiWDMObjectClass 52 };

#### 4 包 ( Packages )

platformInfoPkg PACKAGE

BEHAVIOUR

platformInfoBeh BEHAVIOUR

DEFINED AS

" ";;



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ATTRIBUTES

hardwarePFInfo GET,

softwarePFInfo GET;

REGISTERED AS { ctsiWDMPackage 1 };

CircuitPackListPkg PACKAGE

ATTRIBUTES

circuitPackList GET;

REGISTERED AS { ctsiWDMPackage 2 };

ochCTPPkg PACKAGE

BEHAVIOUR

ochCTPPkgBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

ochWaveChannelInfo GET-REPLACE,

channelSpacing GET,

regeneratorType GET,

assignmentState GET-REPLACE;

NOTIFICATIONS

"Rec. X.721 | ISO/IEC 10165-2 : 1992": stateChange;

REGISTERED AS { ctsiWDMPackage 3 };

omsCTPPkg PACKAGE

BEHAVIOUR

omsCTPPkgBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

omsWaveChannelInfo GET-REPLACE,

numberOfWaveChannels GET,

assignmentState GET-REPLACE;

NOTIFICATIONS

"Rec. X.721 | ISO/IEC 10165-2 : 1992": stateChange;

REGISTERED AS { ctsiWDMPackage 4 };

otsTTPPkg PACKAGE  
BEHAVIOUR  
    otsTTPPkgBeh BEHAVIOUR  
    DEFINED AS  
    " ";;  
ATTRIBUTES  
    opticalReachLen GET,  
    numberOfWaveChannels GET;  
  
REGISTERED AS { ctsiWDMPackage 5 };

oscInfoPkg PACKAGE  
BEHAVIOUR  
    oscInfoPkgBeh BEHAVIOUR  
    DEFINED AS  
    " ";;  
ATTRIBUTES  
    oscCentralFrequency GET,  
    oscChannelSpacing GET,  
    oscType GET,  
    timingSource GET;  
  
REGISTERED AS { ctsiWDMPackage 6 };

wdmOPICTPPkg PACKAGE  
BEHAVIOUR  
    WdmOPICTPPkgBeh BEHAVIOUR  
    DEFINED AS  
    " ";;  
ATTRIBUTES  
    opticalReachLen GET,  
    waveLength GET,  
    wdmASPControl GET-REPLACE;  
  
REGISTERED AS { ctsiWDMPackage 7 };

receivePowerLevelPkg PACKAGE  
BEHAVIOUR  
    receivePowerLevelPkgBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

receivePowerLevel GET,  
receivePowerLevelTideMarkMax GET,  
receivePowerLevelTideMarkMin GET;

REGISTERED AS { ctsiWDMPackage 8 };

transmitPowerLevelPkg PACKAGE

BEHAVIOUR

transmitPowerLevelPkgBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

transmitPowerLevel GET,  
transmitPowerLevelTideMarkMax GET,  
transmitPowerLevelTideMarkMin GET;

REGISTERED AS { ctsiWDMPackage 9 };

channelReceivePowerLevelPkg PACKAGE

BEHAVIOUR

channelReceivePowerLevelPkgBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

channelReceivePowerLevel GET,  
channelReceivePowerLevelTideMarkMax GET,  
channelReceivePowerLevelTideMarkMin GET;

REGISTERED AS { ctsiWDMPackage 10 };

channelTransmitPowerLevelPkg PACKAGE

BEHAVIOUR

channelTransmitPowerLevelPkgBeh BEHAVIOUR

DEFINED AS

" ";;

ATTRIBUTES

channelTransmitPowerLevel GET,

channelTransmitPowerLevelTideMarkMax GET,  
channelTransmitPowerLevelTideMarkMin GET;  
REGISTERED AS { ctsiWDMPackage 11 };

#### 属性 (Attributes)

emsAgentId ATTRIBUTE  
WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;  
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;  
BEHAVIOUR  
emsAgentIdBeh BEHAVIOUR  
DEFINED AS  
" ";;  
REGISTERED AS { ctsiWDMAttribute 1 };

emsAgentLabel ATTRIBUTE  
WITH ATTRIBUTE SYNTAX CtsiASN1Module.EmsAgentLabel;  
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;  
BEHAVIOUR  
EmsAgentLabelBeh BEHAVIOUR  
DEFINED AS  
" ";;  
REGISTERED AS { ctsiWDMAttribute 2 };

addressInfo ATTRIBUTE  
WITH ATTRIBUTE SYNTAX CtsiASN1Module.AddressInfo;  
MATCHES FOR EQUALITY;  
BEHAVIOUR  
addressInfoBeh BEHAVIOUR  
DEFINED AS  
" ";;  
REGISTERED AS { ctsiWDMAttribute 3 };

emsUserId ATTRIBUTE  
WITH ATTRIBUTE SYNTAX CtsiASN1Module.EmsUserId;  
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;  
BEHAVIOUR

emsUserIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 4 };

emsUserPwd ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.EmsUserPwd;

MATCHES FOR EQUALITY;

BEHAVIOUR

emsUserPwdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 5 };

userEffectiveTime ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.UserEffectiveTime;

MATCHES FOR EQUALITY;

BEHAVIOUR

userEffectiveTimeBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 6 };

historyDataControlId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

historyDataControlIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 7 };

historyDataCapacity ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.HistoryDataCapacity;

MATCHES FOR EQUALITY;

BEHAVIOUR

HistoryDataCapacityBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 8 };

wdmNEId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

WdmNEIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 9 };

neName ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NeName;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

neNameBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 10 };

neType ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NeType;

MATCHES FOR EQUALITY;

BEHAVIOUR

neTypeBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 11 };

creationTime ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.CreationTime;

MATCHES FOR EQUALITY;

BEHAVIOUR

creationTimeBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 12 };

trunkSubNetworkIdATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

trunkSubNetworkIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 13 };

trunkName ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.TrunkName;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

trunkNameBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 14 };

nodeId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

nodeIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 15 };

nodeLabel ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NodeLabel;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

nodeLabelBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 16 };

neList ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NeList;

MATCHES FOR EQUALITY, SET-COMPARISON, SET-INTERSECTION;

BEHAVIOUR

neListBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 17 };

nodeTypeATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NodeType;

MATCHES FOR EQUALITY;

BEHAVIOUR

nodeTypeBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 18 };

linkId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

linkIdBehBEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 19 };

linkLabel ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.LinkLabel;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

linkLabelBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 20 };



**linkType ATTRIBUTE**

WITH ATTRIBUTE SYNTAX CtsiASN1Module.LinkType;

MATCHES FOR EQUALITY;

BEHAVIOUR

linkTypeBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 21 };

**linkRate ATTRIBUTE**

WITH ATTRIBUTE SYNTAX CtsiASN1Module.LinkRate;

MATCHES FOR EQUALITY;

BEHAVIOUR

linkRateBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 22 };

**linkDirection ATTRIBUTE**

WITH ATTRIBUTE SYNTAX CtsiASN1Module.LinkDirection;

MATCHES FOR EQUALITY;

BEHAVIOUR

linkDirectionBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 23 };

**aEndInfo ATTRIBUTE**

WITH ATTRIBUTE SYNTAX CtsiASN1Module.AEndInfo;

MATCHES FOR EQUALITY;

BEHAVIOUR

aEndInfoBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 24 };

**zEndInfo ATTRIBUTE**

**WITH ATTRIBUTE SYNTAX** CtsiASN1Module.ZEndInfo;

**MATCHES FOR** EQUALITY;

**BEHAVIOUR**

**zEndInfoBeh BEHAVIOUR**

**DEFINED AS**

" ";;

**REGISTERED AS** { ctsiWDMAttribute 25 };

**hardwarePFInfo ATTRIBUTE**

**WITH ATTRIBUTE SYNTAX** CtsiASN1Module.HardwarePFInfo;

**MATCHES FOR** EQUALITY;

**BEHAVIOUR**

**hardwarePFInfoBeh BEHAVIOUR**

**DEFINED AS**

" ";;

**REGISTERED AS** { ctsiWDMAttribute 26 };

**softwarePFInfo ATTRIBUTE**

**WITH ATTRIBUTE SYNTAX** CtsiASN1Module.SoftwarePFInfo;

**MATCHES FOR** EQUALITY;

**BEHAVIOUR**

**SoftwarePFInfoBeh BEHAVIOUR**

**DEFINED AS**

" ";;

**REGISTERED AS** { ctsiWDMAttribute 27 };

**circuitPackList ATTRIBUTE**

**WITH ATTRIBUTE SYNTAX** CtsiASN1Module.CircuitPackList;

**MATCHES FOR** EQUALITY, SET-COMPARISON, SET-INTERSECTION;

**BEHAVIOUR**

**circuitPackListBeh BEHAVIOUR**

**DEFINED AS**

" ";;

**REGISTERED AS** { ctsiWDMAttribute 28 };

**ochCTPIId ATTRIBUTE**

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;  
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;  
BEHAVIOUR

ochCTPIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 29 };

ochTTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;  
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;  
BEHAVIOUR

ochTTPIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 30 };

omsCTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;  
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;  
BEHAVIOUR

OmsCTPIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 31 };

OmsTTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;  
MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;  
BEHAVIOUR

OmsTTPIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 32 };

otsTTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;  
BEHAVIOUR

otsTTPIIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 33 };

oscCTPIdATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

oscCTPIIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 34 };

oscTTPIdATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

oscTTPIIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 35 };

wdmOPICTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

wdmOPICTPIIdBehBEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 36 };

omsOrderwireCTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

omsOrderwireCTPIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 37 };

OtsOrderwireCTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

otsOrderwireCTPIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 38 };

omsUserChannelCTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

omsUserChannelCTPIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 39 };

otsUserChannelCTPId ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NameType;

MATCHES FOR EQUALITY, ORDERING, SUBSTRINGS;

BEHAVIOUR

otsUserChannelCTPIdBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 40 };

userDataChannelRate ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.UserDataChannelRate;

MATCHES FOR EQUALITY;

BEHAVIOUR

userDataChannelRateBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 41 };

ochWaveChannelInfo ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.OchWaveChannelInfo;

MATCHES FOR EQUALITY;

BEHAVIOUR

ochWaveChannelInfoBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 42 };

channelSpacing ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.ChannelSpacing;

MATCHES FOR EQUALITY;

BEHAVIOUR

ChannelSpacingBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 43 };

regeneratorType ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.RegeneratorType;

MATCHES FOR EQUALITY;

BEHAVIOUR

regeneratorTypeBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 44 };

assignmentState ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.AssignmentState;

MATCHES FOR EQUALITY;

BEHAVIOUR

assignmentStateBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 45 };

omsWaveChannelInfo ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.OmsWaveChannelInfo;

MATCHES FOR EQUALITY;

BEHAVIOUR

omsWaveChannelInfoBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 46 };

numberOfWaveChannels ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.NumberOfWaveChannels;

MATCHES FOR EQUALITY;

BEHAVIOUR

numberOfWaveChannelsBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 47 };

opticalReachLen ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.OpticalReachLen;

MATCHES FOR EQUALITY;

BEHAVIOUR

opticalReachLenBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 48 };

oscCentralFrequency ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.ChannelFrequency;

MATCHES FOR EQUALITY;

BEHAVIOUR

centralFrequencyBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 49 };

OscChannelSpacing ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.ChannelSpacing;

MATCHES FOR EQUALITY;

BEHAVIOUR

oscchannelSpacingBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 50 };

oscType ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.OscType;

MATCHES FOR EQUALITY;

BEHAVIOUR

oscTypeBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 51 };

timingSource ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.TimingSource;

MATCHES FOR EQUALITY;

BEHAVIOUR

timingSourceBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 52 };

waveLength ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.WaveLength;

MATCHES FOR EQUALITY;

BEHAVIOUR

waveLengthInfoBeh BEHAVIOUR

DEFINED AS

" ";;



YD/T 1350.3-2005

REGISTERED AS { ctsiWDMAttribute 53 };

wdmASPControl ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.WdmASPControl;

MATCHES FOR EQUALITY;

BEHAVIOUR

wdmASPControlBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 54 };

receivePowerLevel ATTRIBUTE

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": gauge;

BEHAVIOUR

receivePowerLevelBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 55 };

receivePowerLevelTideMarkMax ATTRIBUTE

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": tideMark;

BEHAVIOUR

receivePowerLevelTideMarkMaxBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 56 };

receivePowerLevelTideMarkMin ATTRIBUTE

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": tideMark;

BEHAVIOUR

receivePowerLevelTideMarkMinBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 57 };

transmitPowerLevel ATTRIBUTE

DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": gauge;

**BEHAVIOUR**

**transmitPowerLevelBeh BEHAVIOUR**

**DEFINED AS**

" ";;

**REGISTERED AS { ctsiWDMAttribute 58 };**

**TransmitPowerLevelTideMarkMax ATTRIBUTE**

**DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": tideMark;**

**BEHAVIOUR**

**transmitPowerLevelTideMarkMaxBeh BEHAVIOUR**

**DEFINED AS**

" ";;

**REGISTERED AS { ctsiWDMAttribute 59 };**

**TransmitPowerLevelTideMarkMin ATTRIBUTE**

**DERIVED FROM "Rec. X.721 | ISO/IEC 10165-2 : 1992": tideMark;**

**BEHAVIOUR**

**transmitPowerLevelTideMarkMinBeh BEHAVIOUR**

**DEFINED AS**

" ";;

**REGISTERED AS { ctsiWDMAttribute 60 };**

**channelReceivePowerLevel ATTRIBUTE**

**WITH ATTRIBUTE SYNTAX CtsiASN1Module.ChannelReceivePowerLevel;**

**MATCHES FOR EQUALITY;**

**BEHAVIOUR**

**channelReceivePowerLevelBeh BEHAVIOUR**

**DEFINED AS**

" ";;

**REGISTERED AS { ctsiWDMAttribute 61 };**

**channelReceivePowerLevelTideMarkMax ATTRIBUTE**

**~ WITH ATTRIBUTE SYNTAX CtsiASN1Module.ChannelReceivePowerLevelTideMarkMax;**

**MATCHES FOR EQUALITY;**

**BEHAVIOUR**

**channelReceivePowerLevelTideMarkMaxBeh BEHAVIOUR**

**DEFINED AS**

" ";;

REGISTERED AS { ctsiWDMAttribute 62 };

channelReceivePowerLevelTideMarkMin      ATTRIBUTE

WITH ATTRIBUTE SYNTAX      CtsiASN1Module.ChannelReceivePowerLevelTideMarkMin;

MATCHES FOR   EQUALITY;

BEHAVIOUR

channelReceivePowerLevelTideMarkMinBeh      BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 63 };

channelTransmitPowerLevel      ATTRIBUTE

WITH ATTRIBUTE SYNTAX      CtsiASN1Module.ChannelTransmitPowerLevel;

MATCHES FOR   EQUALITY;

BEHAVIOUR

channelTransmitPowerLevelBeh      BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 64 };

channelTransmitPowerLevelTideMarkMax      ATTRIBUTE

WITH ATTRIBUTE SYNTAX      CtsiASN1Module.ChannelTransmitPowerLevelTideMarkMax;

MATCHES FOR   EQUALITY;

BEHAVIOUR

channelTransmitPowerLevelTideMarkMaxBeh      BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 65 };

channelTransmitPowerLevelTideMarkMin      ATTRIBUTE

WITH ATTRIBUTE SYNTAX      CtsiASN1Module.ChannelTransmitPowerLevelTideMarkMin;

MATCHES FOR   EQUALITY;

BEHAVIOUR

channelTransmitPowerLevelTideMarkMinBeh      BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 66 };

ChannelOSNR ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.ChannelOSNR;

MATCHES FOR EQUALITY;

BEHAVIOUR

channelOSNRBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 67 };

laserBackfaceOpticalPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX CtsiASN1Module.LaserBackfaceOpticalPower;

MATCHES FOR EQUALITY;

BEHAVIOUR

laserBackfaceOpticalPowerBeh BEHAVIOUR

DEFINED AS

" ";;

REGISTERED AS { ctsiWDMAttribute 68 };

## 5 动作 ( Actions )

changePassword ACTION

BEHAVIOUR

changePasswordBeh BEHAVIOUR

DEFINED AS

" ";;

MODE CONFIRMED;

WITH INFORMATION SYNTAX

CtsiASN1Module.ChangePasswordInfo;

WITH REPLY SYNTAX

CtsiASN1Module.ChangePasswordResult;

REGISTERED AS { ctsiWDMAction 1 };

changeNENName ACTION

BEHAVIOUR

changeNENNameBeh BEHAVIOUR

DEFINED AS

" ";;

MODE CONFIRMED;

WITH INFORMATION SYNTAX

CtsiASN1Module.ChangeNENNameInfo;

WITH REPLY SYNTAX

CtsiASN1Module.ChangeNENNameResult;

REGISTERED AS { ctsiWDMAction 2 };

backUpSoftwareAndDatabase ACTION

BEHAVIOUR

BackUpSoftwareAndDatabaseBeh BEHAVIOUR

DEFINED AS

" ";;

MODE CONFIRMED;

WITH INFORMATION SYNTAX

CtsiASN1Module.BackUpSoftwareAndDatabaseInfo;

WITH REPLY SYNTAX

CtsiASN1Module.BackUpSoftwareAndDatabaseResult;

REGISTERED AS { ctsiWDMAction 3 };

RestoreSoftwareAndDatabase ACTION

BEHAVIOUR

restoreSoftwareAndDatabaseBeh BEHAVIOUR

DEFINED AS

" ";;

MODE CONFIRMED;

WITH INFORMATION SYNTAX

CtsiASN1Module.RestoreSoftwareAndDatabaseInfo;

WITH REPLY SYNTAX

CtsiASN1Module.RestoreSoftwareAndDatabaseResult;

REGISTERED AS { ctsiWDMAction 4 };

DownLoadSoftware ACTION

BEHAVIOUR

downLoadSoftwareBeh BEHAVIOUR

DEFINED AS

" ";;

MODE CONFIRMED;

WITH INFORMATION SYNTAX

CtsiASN1Module.DownLoadSoftwareInfo;

WITH REPLY SYNTAX

CtsiASN1Module.DownLoadSoftwareResult;

REGISTERED AS { ctsiWDMAction 5 };

synchronizeTime ACTION

BEHAVIOUR

synchronizeTimeBeh BEHAVIOUR

DEFINED AS

" ";;

MODE CONFIRMED;

WITH INFORMATION SYNTAX

CtsiASN1Module.SynchronizeTimeInfo;

WITH REPLY SYNTAX

CtsiASN1Module.SynchronizeTimeResult;

REGISTERED AS { ctsiWDMAction 6 };

命名结合 ( Name Bindings )

emsAgent-nmsSystem NAME BINDING

SUBORDINATE OBJECT CLASS emsAgent AND SUBCLASSES;

NAMED BY SUPERIOR OBJECT CLASS nmsSystem AND SUBCLASSES;

WITH ATTRIBUTE emsAgentId;

CREATE;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 1 };

trunkSubNetwork-emsAgent NAME BINDING

SUBORDINATE OBJECT CLASS trunkSubNetwork AND SUBCLASSES;

NAMED BY SUPERIOR OBJECT CLASS emsAgent AND SUBCLASSES;

WITH ATTRIBUTE trunkSubNetworkId;

CREATE;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 2 };

**link-emsAgentNAME BINDING**

SUBORDINATE OBJECT CLASS link AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS emsAgent AND SUBCLASSES;  
WITH ATTRIBUTE linkId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 3 };

**emsUser-emsAgent NAME BINDING**

SUBORDINATE OBJECT CLASS emsUser AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS emsAgent AND SUBCLASSES;  
WITH ATTRIBUTE emsUserId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 4 };

**currentAlarmSummaryControl-emsAgent NAME BINDING**

SUBORDINATE OBJECT CLASS  
"ITU-T Rec. Q.821:1992": currentAlarmSummaryControl AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS emsAgent AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. Q.821:1992": currentAlarmSummaryControlId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 5 };

**managementOperationsSchedule-emsAgent NAME BINDING**

SUBORDINATE OBJECT CLASS  
"ITU-T Rec. Q.821:1992": managementOperationsSchedule AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS emsAgent AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. Q.821:1992": scheduleId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 6 };

**log-emsAgent NAME BINDING**

SUBORDINATE OBJECT CLASS "Rec. X.721 | ISO/IEC 10165-2 : 1992": log AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS emsAgent AND SUBCLASSES;

WITH ATTRIBUTE "Rec. X.721 | ISO/IEC 10165-2 : 1992": logId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 7 };

eventForwardingDiscriminator-emsAgent NAME BINDING  
 SUBORDINATE OBJECT CLASS  
 "Rec. X.721 | ISO/IEC 10165-2 : 1992": eventForwardingDiscriminator AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS emsAgent AND SUBCLASSES;  
 WITH ATTRIBUTE "Rec. X.721 | ISO/IEC 10165-2 : 1992": discriminatorId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 8 };

historyDataControl-emsAgent NAME BINDING  
 SUBORDINATE OBJECT CLASS historyDataControl AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS emsAgent AND SUBCLASSES;  
 WITH ATTRIBUTE historyDataControlId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 9 };

node-trunkSubNetwork NAME BINDING  
 SUBORDINATE OBJECT CLASS node AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS trunkSubNetwork AND SUBCLASSES;  
 WITH ATTRIBUTE nodeId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 10 };

node-node NAME BINDING  
 SUBORDINATE OBJECT CLASS node AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS node AND SUBCLASSES;  
 WITH ATTRIBUTE nodeId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 11 };



**wdmNE-node NAME BINDING**

SUBORDINATE OBJECT CLASS    wdmNE AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS node AND SUBCLASSES;  
WITH ATTRIBUTE    wdmNEId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 12 };

**equipmentHolder-wdmNE    NAME BINDING**

SUBORDINATE OBJECT CLASS  
"ITU-T Rec. M.3100:1995": equipmentHolder AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;  
WITH ATTRIBUTE    "ITU-T Rec. M.3100:1995": equipmentId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 13 };

**opticalSPITTPSink-wdmNE NAME BINDING**

SUBORDINATE OBJECT CLASS  
"ITU-T Rec. G.774:1992": opticalSPITTPSink AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;  
WITH ATTRIBUTE    "ITU-T Rec. G.774:1992": opticalSPITTPId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 14 };

**opticalSPITTPSource-wdmNE    NAME BINDING**

SUBORDINATE OBJECT CLASS  
"ITU-T Rec. G.774:1992": opticalSPITTPSource AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;  
WITH ATTRIBUTE    "ITU-T Rec. G.774:1992": opticalSPITTPId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 15 };

**ochTTTPSink-wdmNE    NAME BINDING**

SUBORDINATE OBJECT CLASS ochTTPSink AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;  
 WITH ATTRIBUTE ochTTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 16 };

ochTTPSource-wdmNE NAME BINDING

SUBORDINATE OBJECT CLASS ochTTPSource AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;  
 WITH ATTRIBUTE ochTTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 17 };

wdmOPICTPSink-ochTTPSink NAME BINDING

SUBORDINATE OBJECT CLASS wdmOPICTPSink AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS ochTTPSink AND SUBCLASSES;  
 WITH ATTRIBUTE wdmOPICTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 18 };

wdmOPICTPSource-ochTTPSource NAME BINDING

SUBORDINATE OBJECT CLASS wdmOPICTPSource AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS ochTTPSource AND SUBCLASSES;  
 WITH ATTRIBUTE wdmOPICTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 19 };

omsTTPSink-wdmNE NAME BINDING

SUBORDINATE OBJECT CLASS omsTTPSink AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;  
 WITH ATTRIBUTE omsTTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 20 };

omsTTPSource-wdm NENAME BINDING

SUBORDINATE OBJECT CLASS omsTTPSource AND SUBCLASSES;

NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;

WITH ATTRIBUTE omsTTPIId;

CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 21 };

ochCTPSink-omsTTPSink NAME BINDING

SUBORDINATE OBJECT CLASS ochCTPSink AND SUBCLASSES;

NAMED BY SUPERIOR OBJECT CLASS omsTTPSink AND SUBCLASSES;

WITH ATTRIBUTE ochCTPIId;

CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 22 };

ochCTPSource-omsTTPSource NAME BINDING

SUBORDINATE OBJECT CLASS ochCTPSource AND SUBCLASSES;

NAMED BY SUPERIOR OBJECT CLASS omsTTPSource AND SUBCLASSES;

WITH ATTRIBUTE ochCTPIId;

CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 23 };

otsTTPSink-wdmNE NAME BINDING

SUBORDINATE OBJECT CLASS otsTTPSink AND SUBCLASSES;

NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;

WITH ATTRIBUTE otsTTPIId;

CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 24 };

otsTTPSource-wdmNE NAME BINDING

SUBORDINATE OBJECT CLASS otsTTPSource AND SUBCLASSES;

NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;

WITH ATTRIBUTE   otsTTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 25 };

omsCTPSink-otsTTPSink   NAME BINDING  
 SUBORDINATE OBJECT CLASS   omsCTPSink AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS otsTTPSink AND SUBCLASSES;  
 WITH ATTRIBUTE   omsCTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 26 };

omsCTPSource-otsTTPSource   NAME BINDING  
 SUBORDINATE OBJECT CLASS   omsCTPSource AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS otsTTPSource AND SUBCLASSES;  
 WITH ATTRIBUTE   omsCTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 27 };

oscCTPSink-omsTTPSink   NAME BINDING  
 SUBORDINATE OBJECT CLASS   oscCTPSink AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS omsTTPSink AND SUBCLASSES;  
 WITH ATTRIBUTE   oscCTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 28 };

oscCTPSource-omsTTPSource   NAME BINDING  
 SUBORDINATE OBJECT CLASS   oscCTPSource AND SUBCLASSES;  
 NAMED BY SUPERIOR OBJECT CLASS omsTTPSource AND SUBCLASSES;  
 WITH ATTRIBUTE   oscCTPIId;  
 CREATE ;  
 DELETE DELETES-CONTAINED-OBJECTS;  
 REGISTERED AS { ctsiWDMNameBinding 29 };

oscTTPSink-wdmNE NAME BINDING

SUBORDINATE OBJECT CLASS oscTTPSink AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;  
WITH ATTRIBUTE oscTTPIId;  
CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 30 };

oscTTPSource-wdmNE NAME BINDING

SUBORDINATE OBJECT CLASS oscTTPSource AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS wdmNE AND SUBCLASSES;  
WITH ATTRIBUTE oscTTPIId;  
CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 31 };

ochCurrentData-ochTTPSink NAME BINDING

SUBORDINATE OBJECT CLASS ochCurrentData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS ochTTPSink AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. X.739:1993": scannerId;  
CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 32 };

ochCurrentData-ochTTPSource NAME BINDING

SUBORDINATE OBJECT CLASS ochCurrentData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS ochTTPSource AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. X.739:1993": scannerId;  
CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;

REGISTERED AS { ctsiWDMNameBinding 33 };

ochHistoryData-ochCurrentData NAME BINDING

SUBORDINATE OBJECT CLASS ochHistoryData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS ochCurrentData AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. Q.822:1994": historyDataId;  
CREATE ;

DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 34 };

omsCurrentData-omsTTPSink NAME BINDING  
SUBORDINATE OBJECT CLASS omsCurrentData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS omsTTPSink AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. X.739:1993": scannerId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 35 };

omsCurrentData-omsTTPSource NAME BINDING  
SUBORDINATE OBJECT CLASS omsCurrentData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS omsTTPSource AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. X.739:1993": scannerId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 36 };

omsHistoryData-omsCurrentData NAME BINDING  
SUBORDINATE OBJECT CLASS omsHistoryData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS omsCurrentData AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. Q.822:1994": historyDataId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 37 };

otsCurrentData-otsTTPSink NAME BINDING  
SUBORDINATE OBJECT CLASS otsCurrentData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS otsTTPSink AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. X.739:1993": scannerId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 38 };

otsCurrentData-otsTTPSource NAME BINDING  
SUBORDINATE OBJECT CLASS otsCurrentData AND SUBCLASSES;

NAMED BY SUPERIOR OBJECT CLASS otsTTPSource AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. X.739:1993": scannerId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 39 };

otsHistoryData-otsCurrentData NAME BINDING  
SUBORDINATE OBJECT CLASS otsHistoryData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS otsCurrentData AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. Q.822:1994": historyDataId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 40 };

oscCurrentData-oscTTPSink NAME BINDING  
SUBORDINATE OBJECT CLASS oscCurrentData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS oscTTPSink AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. X.739:1993": scannerId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 41 };

oscCurrentData-oscTTPSource NAME BINDING  
SUBORDINATE OBJECT CLASS oscCurrentData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS oscTTPSource AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. X.739:1993": scannerId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 42 };

oscHistoryData-oscCurrentData NAME BINDING  
SUBORDINATE OBJECT CLASS oscHistoryData AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS oscCurrentData AND SUBCLASSES;  
WITH ATTRIBUTE "ITU-T Rec. Q.822:1994": historyDataId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 43 };

```

--thresholdData-wdmNENAME BINDING
--  SUBORDINATE OBJECT CLASS
--    "ITU-T Rec. Q.822:1994": thresholdData AND SUBCLASSES;
--  NAMED BY SUPERIOR OBJECT CLASS  wdmNE AND SUBCLASSES;
--  WITH ATTRIBUTE    "ITU-T Rec. Q.822:1994": thresholdDataId;
--  CREATE ;
--  DELETE DELETES-CONTAINED-OBJECTS;
--REGISTERED AS    {ctsiDWDMNameBinding 44 };

```

```

omsOrderwireCTPSink-omsTTPSink  NAME BINDING
  SUBORDINATE OBJECT CLASS    omsOrderwireCTPSink AND SUBCLASSES;
  NAMED BY SUPERIOR OBJECT CLASS omsTTPSink AND SUBCLASSES;
  WITH ATTRIBUTE    omsOrderwireCTPIId;
  CREATE ;
  DELETE DELETES-CONTAINED-OBJECTS;
REGISTERED AS { ctsiWDMNameBinding 45 };

```

```

omsOrderwireCTPSource-omsTTPSource  NAME BINDING
  SUBORDINATE OBJECT CLASS    omsOrderwireCTPSource AND SUBCLASSES;
  NAMED BY SUPERIOR OBJECT CLASS omsTTPSource AND SUBCLASSES;
  WITH ATTRIBUTE    omsOrderwireCTPIId;
  CREATE ;
  DELETE DELETES-CONTAINED-OBJECTS;
REGISTERED AS { ctsiWDMNameBinding 46 };

```

```

omsUserChannelCTPSink-omsTTPSink  NAME BINDING
  SUBORDINATE OBJECT CLASS    omsUserChannelCTPSink AND SUBCLASSES;
  NAMED BY SUPERIOR OBJECT CLASS omsTTPSink AND SUBCLASSES;
  WITH ATTRIBUTE    omsUserChannelCTPIId;
  CREATE ;
  DELETE DELETES-CONTAINED-OBJECTS;
REGISTERED AS { ctsiWDMNameBinding 47 };

```

```

omsUserChannelCTPSource-omsTTPSource  NAME BINDING
  SUBORDINATE OBJECT CLASS    omsUserChannelCTPSource AND SUBCLASSES;
  NAMED BY SUPERIOR OBJECT CLASS omsTTPSource AND SUBCLASSES;

```



WITH ATTRIBUTE omsUserChannelCTPId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 48 };

otsOrderwireCTPSink-otsTTPSink NAME BINDING  
SUBORDINATE OBJECT CLASS otsOrderwireCTPSink AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS otsTTPSink AND SUBCLASSES;  
WITH ATTRIBUTE otsOrderwireCTPId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 49 };

otsOrderwireCTPSource-otsTTPSourceNAME BINDING  
SUBORDINATE OBJECT CLASS otsOrderwireCTPSource AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS otsTTPSource AND SUBCLASSES;  
WITH ATTRIBUTE otsOrderwireCTPId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 50 };

otsUserChannelCTPSink-otsTTPSink NAME BINDING  
SUBORDINATE OBJECT CLASS otsUserChannelCTPSink AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS otsTTPSink AND SUBCLASSES;  
WITH ATTRIBUTE otsUserChannelCTPId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 51 };

otsUserChannelCTPSource-otsTTPSource NAME BINDING  
SUBORDINATE OBJECT CLASS otsUserChannelCTPSource AND SUBCLASSES;  
NAMED BY SUPERIOR OBJECT CLASS otsTTPSource AND SUBCLASSES;  
WITH ATTRIBUTE otsUserChannelCTPId;  
CREATE ;  
DELETE DELETES-CONTAINED-OBJECTS;  
REGISTERED AS { ctsiWDMNameBinding 52 };

## 6 ASN.1 模块 ( ASN.1 Module )

-- ### This object identifier is not registered yet. ###

CtsiASN1Module { iso(1) identified-arganization(4) ctsi(86) wdm(2000) informationModel(0) asn1Module(2)  
version1(1) }

DEFINITIONS ::=

BEGIN

IMPORTS

-- M.3100

NameType, Version

FROM ASN1DefinedTypesModule { ccitt(0) recommendation(0) m(13) gnm(3100) informationModel(0)  
asn1Modules(2) asn1DefinedTypeModule(0) }

-- X.721

ProbableCause, StartTime, StopTime

FROM Attribute-ASN1Module { joint-iso-ccitt ms(9) smi(3) part2(2) asn1Module(2) 1 }

ObjectInstance

FROM CMIP-1 { joint-iso-ccitt ms(9) cmip(1) modules(0) protocol(3) };

ctsiWDMInfoModel OBJECT IDENTIFIER ::=

{ iso(1) identified-arganization(4) ctsi(86) wdm(2000) informationModel(0) }

ctsiWDMObjectClass OBJECT IDENTIFIER ::=

{ ctsiWDMInfoModel objectClass(3) }

ctsiWDMPackage OBJECT IDENTIFIER ::=

{ ctsiWDMInfoModel package(4) }

ctsiWDMNameBinding OBJECT IDENTIFIER ::=

{ ctsiWDMInfoModel namebinding(6) }

ctsiWDMAttribute OBJECT IDENTIFIER ::=

{ ctsiWDMInfoModel attribute(7) }

ctsiWDMAction OBJECT IDENTIFIER ::=

{ ctsiWDMInfoModel action(9) }

AddressInfo ::= SEQUENCE {

ipAddress IpAddress,

portInfo PortInfo }

IpAddress ::= GraphicString

PortInfo ::= INTEGER

YD/T 1350.3-2005

EmsUserId ::= PrintableString

EmsUserPwd ::= PrintableString

EmsAgentLabel ::= GraphicString

UserEffectiveTime ::= SEQUENCE {  
                                startTime        StartTime,  
                                stopTime        StopTime }

HistoryDataCapacity ::= INTEGER

NeName ::= GraphicString

NeType ::= ENUMERATED {  
                        terminal(0),  
                        repeater(1),  
                        oadm(2) }

CreationTime ::= GeneralizedTime

NodeLabel ::= GraphicString

NeList ::= CHOICE {  
neList        SET OF ObjectInstance,  
nodeList      NULL }

NodeType ::= ENUMERATED {  
                        canBeFurtherDivision(0),  
                        cannotBeFurtherDivision(1) }

TrunkName ::= GraphicString

LinkLabel ::= GraphicString

LinkType ::= ENUMERATED {  
                        betweenSubNetworks(0),  
                        betweenNodes(1),  
                        betweenNEs(2) }

LinkRate ::= CHOICE {  
                        rate        REAL,  
                        noRate      NULL }

LinkDirection ::= ENUMERATED { unidirectional(0), bidirectional(1), east-to-west(2), west-to-east(3) }

AEndInfo ::= ObjectInstance

ZEndInfo ::= ObjectInstance

HardwarePFInfo ::= SEQUENCE {  
                        provider        Provider,  
                        hardwareType    HardwareType }

Provider ::= GraphicString

HardwareType ::= GraphicString

```

SoftwarePFInfo ::= SEQUENCE {
    operationSystem    OperationSystem,
    database            Database,
    basedPlatformList  BasedPlatformList }
OperationSystem ::= GraphicString
Database ::= GraphicString
BasedPlatformList ::= CHOICE {
    noPlatform        NULL,
    havePlatforms     SET OF BasedPlatformInfo }
BasedPlatformInfo ::= GraphicString
CircuitPackList ::= SET OF ObjectInstance
ChangePasswordInfo ::= SEQUENCE {
    oldPassword        PrintableString,
    newPassword        PrintableString,
    confirmedNewPassword PrintableString }
ChangePasswordResult ::= ENUMERATED {
    success(0),
    oldPasswordError(1),
    newPasswordDisaccord(2),
    indeterminateError(3) }
ChangeNENNameInfo ::= SEQUENCE {
    oldNENName         GraphicString,
    newNENName         GraphicString,
    confirmedNewNENName GraphicString }
ChangeNENNameResult ::= ENUMERATED {
    success(0),
    oldNENNameError(1),
    newNENNameDisaccord(2),
    indeterminateError(3) }
UserDataChannelRate ::= REAL
OchWaveChannelInfo ::= SEQUENCE {
    channelNumber      ChannelNumber,
    channelFrequency    ChannelFrequency }
ChannelNumber ::= INTEGER
ChannelFrequency ::= REAL
ChannelSpacing ::= REAL
RegeneratorType ::= CHOICE {

```

threeR [0]	ThreeR,
twoR [1]	TwoR }

ThreeR ::= REAL

TwoR ::= SEQUENCE {  
     min     REAL,  
     max     REAL }

AssignmentState ::= ENUMERATED {  
     free(0),  
     reserved(1),  
     partiallyAssigned(2),  
     assigned(3) }

OmsWaveChannelInfo ::= SET OF OchWaveChannelInfo

NumberOfWaveChannels ::= INTEGER

OpticalReachLen ::= INTEGER

OscType ::= ENUMERATED {  
     inband(0),  
     outOfBand(1),  
     unknown(2) }

TimingSource ::= ENUMERATED {  
     internal(0),  
     external(1),  
     unknown(2) }

WaveLength ::= REAL

WdmASPControl ::= ENUMERATED {  
     enabled(0),  
     disabled(1) }

BackUpSoftwareAndDatabaseInfo ::= ENUMERATED {  
     backUpSoftware(0),  
     backUpDatabase(1),  
     backUpSoftwareAndDatabase(2) }

BackUpSoftwareAndDatabaseResult ::= ENUMERATED {  
     success(0),  
     fail(1) }

RestoreSoftwareAndDatabaseInfo ::= ENUMERATED {  
     restoreSoftware(0),  
     restoreDatabase(1),  
     restoreSoftwareAndDatabase(2) }

RestoreSoftwareAndDatabaseResult ::= ENUMERATED {

success(0),

fail(1) }

DownloadSoftwareInfo ::= SEQUENCE {

emsName                      EmsAgentLabel,

providerName                Provider,

version                      Version,

softwareCode                SoftwareCode }

SoftwareCode ::= OCTET STRING

DownloadSoftwareResult ::= ENUMERATED {

success(0),

fail(1) }

SynchronizeTimeInfo ::= TimeOfNMS

TimeOfNMS ::= GeneralizedTime

SynchronizeTimeResult ::= ENUMERATED {

success(0),

fail(1) }

ChannelReceivePowerLevel ::= SET OF PerChannelReceivePowerLevel

PerChannelReceivePowerLevel ::= SEQUENCE {

channelNumber                INTEGER,

receivePowerLevelOfChannel   REAL }

ChannelReceivePowerLevelTideMarkMax ::= SET OF PerChannelReceivePowerLevelTideMarkMax

PerChannelReceivePowerLevelTideMarkMax ::= SEQUENCE {

channelNumber                INTEGER,

receivePowerLevelTideMarkMaxOfChannel   REAL }

ChannelReceivePowerLevelTideMarkMin ::= SET OF PerChannelReceivePowerLevelTideMarkMin

PerChannelReceivePowerLevelTideMarkMin ::= SEQUENCE {

channelNumber                INTEGER,

receivePowerLevelTideMarkMinOfChannel   REAL }

ChannelTransmitPowerLevel ::= SET OF PerChannelTransmitPowerLevel

PerChannelTransmitPowerLevel ::= SEQUENCE {

channelNumber                INTEGER,

transmitPowerLevelOfChannel    REAL }

ChannelTransmitPowerLevelTideMarkMax ::= SET OF PerChannelTransmitPowerLevelTideMarkMax

PerChannelTransmitPowerLevelTideMarkMax ::= SEQUENCE {  
                                                 channelNumber                                                   INTEGER,  
                                                 transmitPowerLevelTideMarkMaxOfChannel    REAL }

ChannelTransmitPowerLevelTideMarkMin ::= SET OF PerChannelTransmitPowerLevelTideMarkMin

PerChannelTransmitPowerLevelTideMarkMin ::= SEQUENCE {  
                                                 channelNumber                                                   INTEGER,  
                                                 transmitPowerLevelTideMarkMinOfChannel    REAL }

ChannelOSNR ::= SET OF PerChannelOSNR

PerChannelOSNR ::= SEQUENCE {  
                                                 channelNumber                                                   INTEGER,  
                                                 oSNROfChannel                                                   REAL }

LaserBackfaceOpticalPower ::= REAL

-- probable cause for WDM ( 还有部分的 probable cause 参见 X.721 或 M.3100 )

historyDataCapacityOverflowed	ProbableCause ::= localValue: 201
powerSupplyFail	ProbableCause ::= localValue: 202
environmentalTemperatureHigh	ProbableCause ::= localValue: 203
relayAlarm	ProbableCause ::= localValue: 204
unitMissing	ProbableCause ::= localValue: 205
unitFailure	ProbableCause ::= localValue: 206
unitTypeMismatch	ProbableCause ::= localValue: 207
unitNoSoftware	ProbableCause ::= localValue: 208
unitParameterNotSet	ProbableCause ::= localValue: 209
readOrWriteUnitRegisterFailure	ProbableCause ::= localValue: 210
regeneratorB1ExcessiveBER	ProbableCause ::= localValue: 211
j0TraceIdentifierMismatch	ProbableCause ::= localValue: 212
lossOfInputSignal	ProbableCause ::= localValue: 213
excessOfInputOpticalPower	ProbableCause ::= localValue: 214
excessOfOutputOpticalPower	ProbableCause ::= localValue: 215
transmitterDegraded	ProbableCause ::= localValue: 216
laserTransmitFailure	ProbableCause ::= localValue: 217

laserLifeAlarm	ProbableCause ::= localValue: 218
laserBackfacePowerWarning	ProbableCause ::= localValue: 219
excessOfLaserTemperature	ProbableCause ::= localValue: 220
excessOfLaserCurrent	ProbableCause ::= localValue: 221
lossOfInputOpticalChannel	ProbableCause ::= localValue: 222
lossOfInputMultiplexSignals	ProbableCause ::= localValue: 223
degradationOfOSNR	ProbableCause ::= localValue: 224
pumpLaserFailure	ProbableCause ::= localValue: 225
pumpLaserDegrade	ProbableCause ::= localValue: 226
excessOfPumpLaserBias	ProbableCause ::= localValue: 227
excessOfPumpLaserTemperature	ProbableCause ::= localValue: 228
laserCloseReport	ProbableCause ::= localValue: 229
lossOfSupervisionChannel	ProbableCause ::= localValue: 230
lossOfOpticalFrame	ProbableCause ::= localValue: 231
outOfOpticalFrame	ProbableCause ::= localValue: 232
fERF	ProbableCause ::= localValue: 233
END	
-- -- End Of File	

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