



Cisco Transpath TP MIBs

This chapter describes the Cisco Transpath TP MIBs identifies the TransPath operational component MIBs table and is used to:

- Revise the experimental branch of Cisco MIB tree
- Update the component table
 - Remove the tpComponentIndex
 - Provide better descriptions of the tpComponentId
- Re-design the operational mib

The Cisco Transpath TP MIB definitions include:

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Object Identifiers

```
lightspeed      OBJECT IDENTIFIER ::= { enterprises 2496 }
lightspeedProducts OBJECT IDENTIFIER ::= { lightspeed 1 }
transpath       OBJECT IDENTIFIER ::= { lightspeedProducts 1 }
```

TransPath Main Branches

```
tpOperational   OBJECT IDENTIFIER ::= { transpath 1 }
tpProvisioning   OBJECT IDENTIFIER ::= { transpath 2 }
tpMeasurement    OBJECT IDENTIFIER ::= { transpath 3 }
tpTraps          OBJECT IDENTIFIER ::= { transpath 4 }
tpRecords        OBJECT IDENTIFIER ::= { transpath 5 }
```

Operational Core MIB Objects

ciscoTPOperationalMIB MODULE-IDENTITY

TransPath Operational Component

ciscoTPOperationalMIBObjects OBJECT IDENTIFIER ::= { ciscoTPOperationalMIB 1 }

tpCompGroup OBJECT IDENTIFIER ::= { ciscoTPOperationalMIBObjects 1 }

tpAlarmGroup OBJECT IDENTIFIER ::= { ciscoTPOperationalMIBObjects 2 }

tpCompTable OBJECT-TYPE

SYNTAX SEQUENCE OF TpCompTableEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"TransPath operational components table."

::= { tpCompGroup 1 }

tpCompTableEntry OBJECT-TYPE

SYNTAX TpCompTableEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"TransPath component entry definition."

INDEX { tpComponentId }

::= { tpCompTable 1 }

TpCompTableEntry ::=

SEQUENCE

{

tpComponentId INTEGER,

tpComponentType INTEGER,

tpCompParentId INTEGER,

tpCompMMLName DisplayString,

tpCompDesc DisplayString,

tpCompOpStatus DisplayString

}

tpComponentId OBJECT-TYPE

SYNTAX INTEGER (1.. 4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The component identification number. This number consists of two parts, the component type and component instance. The most significant 2-bytes signifies the component type, and the lower 2 bytes is the sequential instance of the type."

::= { tpCompTableEntry 1 }

tpComponentType OBJECT-TYPE

SYNTAX INTEGER (1.. 4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The component type identification number.i"

::= { tpCompTableEntry 2 }

tpCompParentId OBJECT-TYPE

SYNTAX INTEGER (1.. 4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The component parent identification."

::= { tpCompTableEntry 3 }

tpCompMMLName OBJECT-TYPE

SYNTAX DisplayString (SIZE (1.. 20))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a short notation of the component name. It is also the MML (man-machine language) name that can be used in the MML session."

::= { tpCompTableEntry 4 }

tpCompDesc OBJECT-TYPE
 SYNTAX DisplayString (SIZE (0.. 128))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The component description"
 ::= { tpCompTableEntry 5 }

tpCompOpStatus OBJECT-TYPE
 SYNTAX DisplayString (SIZE (0.. 15))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The operational status of the component"
 ::= { tpCompTableEntry 6 }

Alarm Record Objects

tpAlarmObject OBJECT IDENTIFIER ::= { tpRecords 5 }

tpAlarmId OBJECT-TYPE
 SYNTAX INTEGER (1.. 4294967295)
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The alarm identification"
 ::= { tpAlarmObject 1 }

tpAlarmCatId OBJECT-TYPE
 SYNTAX INTEGER (1.. 90000)
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The alarm category identification number"
 ::= { tpAlarmObject 2 }

tpAlarmCatName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0.. 15))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The alarm category name"
 ::= { tpAlarmObject 3 }

tpAlarmCatDesc OBJECT-TYPE
SYNTAX DisplayString (SIZE (0.. 128))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The alarm category description"
 ::= { tpAlarmObject 4 }

tpAlarmSet OBJECT-TYPE
SYNTAX INTEGER
{
 clear (1),
 set (2)
}
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
 "The alarm set or not."
 ::= { tpAlarmObject 5 }

tpAlarmNotify OBJECT-TYPE
SYNTAX INTEGER
{
 no (1),
 yes (2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The alarm has been notified or not."
 ::= { tpAlarmObject 6 }

tpAlarmSeverity OBJECT-TYPE

SYNTAX INTEGER

```
{
    informational (1),
    minor (2),
    major (3),
    critical (4)
}
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The alarm severity."

::= {tpAlarmObject 7}

tpAlarmReported OBJECT-TYPE

SYNTAX INTEGER

```
{
    no (1),
    yes (2)
}
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The alarm reported."

::= {tpAlarmObject 8}

tpAlarmTime OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The time when alarm occurred."

::= {tpAlarmObject 9}

Transpath Enterprise Specific Traps

commAlarm NOTIFICATION-TYPE

OBJECTS

```

{
tpAlarmId,
    tpAlarmCatId,
    tpAlarmCatName,
    tpAlarmCatDesc,
    tpAlarmSet,
    tpAlarmNotify,
    tpAlarmSeverity,
    tpAlarmReported,
tpComponentId,
tpComponentType,
tpCompMMLName,
tpCompDesc,
tpCompParentId,
tpAlarmTime
}

```

STATUS current

DESCRIPTION

"Notification of a communication error. This shows which component had failed, the fault type and severity level and the time it occurred from the MIB-II restart time. Because many of the failures need to be described in detail for troubleshooting, an alarm log is written with supplemental information. The trap and log are correlated based on the alarm time."

::= {tpTraps 1}

qualityOfService NOTIFICATION-TYPE

OBJECTS

```

{
tpAlarmId,
    tpAlarmCatId,
    tpAlarmCatName,
    tpAlarmCatDesc,
    tpAlarmSet,
    tpAlarmNotify,
    tpAlarmSeverity,
}

```

```

        tpAlarmReported,
tpComponentId,
tpComponentType,
tpCompMMLName,
tpCompDesc,
tpCompParentId,
        tpAlarmTime
    }
STATUS current
DESCRIPTION
    "Notification when there is a failure in the quality of service.
    This shows which component had failed, its operational status,
    fault type and severity level and the time it occurred from the
    MIB-II restart time. Because many of the failures need to be
    described in detail for troubleshooting, an alarm log is written
    with supplemental information. The trap and log are correlated
    based on the alarm time."
 ::= { tpTraps 2}

```

```
processingError NOTIFICATION-TYPE
```

```
OBJECTS
```

```
{
```

```
tpAlarmId,
        tpAlarmCatId,
        tpAlarmCatName,
        tpAlarmCatDesc,
        tpAlarmSet,
        tpAlarmNotify,
        tpAlarmSeverity,
        tpAlarmReported,
tpComponentId,
tpComponentType,
tpCompMMLName,
tpCompDesc,
tpCompParentId,
        tpAlarmTime
    }
STATUS current

```

DESCRIPTION

"Notification of a process fault. This shows which component had failed, its operational status, fault type and severity level and the time it occurred from the MIB-II restart time. Because many of the failures need to be described in detail for troubleshooting, an alarm log is written with supplemental information. The trap and log are correlated based on the alarm time."

::= {tpTraps 3}

equipmentError NOTIFICATION-TYPE

OBJECTS

```
{
tpAlarmId,
    tpAlarmCatId,
    tpAlarmCatName,
    tpAlarmCatDesc,
    tpAlarmSet,
    tpAlarmNotify,
    tpAlarmSeverity,
    tpAlarmReported,
tpComponentId,
tpComponentType,
tpCompMMLName,
tpCompDesc,
tpCompParentId,
    tpAlarmTime
}
```

STATUS current

DESCRIPTION

"Notification of an equipment error in the TransPath system. This shows which component had failed, its operational status, fault type and severity level and the time it occurred from the MIB-II restart time. Because many of the failures need to be described in detail for troubleshooting, an alarm log is written with supplemental information. The trap and log are correlated based on the alarm time."

::= {tpTraps 4}

environmentError NOTIFICATION-TYPE

OBJECTS

{

tpAlarmId,

tpAlarmCatId,

tpAlarmCatName,

tpAlarmCatDesc,

tpAlarmSet,

tpAlarmNotify,

tpAlarmSeverity,

tpAlarmReported,

tpComponentId,

tpComponentType,

tpCompMMLName,

tpCompDesc,

tpCompParentId,

tpAlarmTime

}

STATUS current

DESCRIPTION

"Notification of an TransPath system.s environment problem.

This shows which component had failed, its operational status, fault type and severity level and the time it occurred from the MIB-II restart time. Because many of the failures need to be described in detail for troubleshooting, an alarm log is written with supplemental information. The trap and log are correlated based on the alarm time."

::= {tpTraps 5}