

## Single-Span ISDN Card Group

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### ISDN Card Table

Use the ISDN card table to define the operating characteristics of the card and assign port names to B-channels. This chapter lists the objects within the ISDN card table.

#### isdnCardTable

{isdn 1}

**Description**

Lists the ISDN cards.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1

**Data Type**

Sequence of IsdnCardEntry

**Access Policy**

Not accessible

**Status**

Mandatory

#### isdnCardEntry

{isdnCardTable 1}

**Description**

Object in the isdnCardTable.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1

**Data Type**

IsdnCardEntry

**Access Policy**

Not accessible

**Status**

Mandatory

**Index**

{isdnIndex, isdnCardType}

**IsdnCardEntry**

Sequence

isdnIndex	CardIndex
isdnRack	Integer
isdnLevel	Integer
isdnSlot	Integer
isdnAccessType	Integer
isdnTrxClock	Integer
isdnCaInpulseRuleIndex	Integer
isdnNcaInpulseRuleIndex	Integer
isdnSlipLimit	Integer
isdnSwitchType	Integer
isdnRefClock	Integer
isdnLaw	Integer
isdnOof	Integer
isdnSpanLength	Integer
isdnSpanType	Integer
isdnCardStatus	Integer
isdnCardType	Integer
isdnRevVer	DisplayString
isdnPhyAdd	Integer
isdnUnusedPorts	Integer
isdnNfasGrpIndex	Integer

isdNfasGrpPosition	Integer
isdNProtocolT200	Integer
isdNProtocolT201	Integer
isdNProtocolT203	Integer
isdNProtocolN200	Integer
isdNProtocolN201	Integer
isdNProtocolWindowSize	Integer
isdNProtocolT303	Integer
isdNProtocolT305	Integer
isdNProtocolT308	Integer
isdNProtocolT309	Integer
isdNProtocolT310	Integer
isdNProtocolT313	Integer
isdNProtocolT315	Integer
isdNProtocolT316	Integer
isdNProtocolT321	Integer
isdNProtocolT3M1	Integer
isdNProtocolTM01	Integer
isdNProtocolNM01	Integer
isdNCardAlarm	Integer
isdNErrorStatus	Integer
isdNOwnerString	OwnerString
isdNEntryStatus	EntryStatus

## isdnIndex

{isdnCardEntry 1}

### Description

Identifies an object in the ISDN card table. This index object contains the physical location (hardware address) of the card to which the port is attached. This object lists the rack (R), level (L), and slot (S) where the card resides. The isdnIndex is the primary index into the ISDN table.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.1

### Data Type

CardIndex

### Access Policy

Read only

### Status

Mandatory

## isdnRack

{isdnCardEntry 2}

### Description

The rack (R) where the ISDN card resides.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.2

### Data Type

Integer

### Access Policy

Read only

### Status

Mandatory

## isdnLevel

{isdnCardEntry 3}

### Description

The level (L) where the ISDN card resides.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.3

### Data Type

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnSlot**

{isdnCardEntry 4}

**Description**

The slot (S) where the ISDN card resides.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.4

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnAccessType**

{isdnCardEntry 5}

**Description**

Determines the access connection used for this card. You can change this field only when the card status is OOS.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.5

**Data Type**

Integer. The valid numerical and string values are shown in the following table:

Value	String	Meaning
1	usrmd	Default value. User side implementation for the connection.
2	user-sym	User side symmetrical implementation for the connection.
3	net	Network mode.
4	user nfas	NFAS user mode.
5	user-sym nfas	NFAS user side symmetrical implementation for the connection.
6	net nfas	NFAS network mode.
7	nfas	NFAS mode.

**Access Policy**

Read-write

**Status**

Mandatory

**Default Value**

(1) usrmd

**isdnTrxClock**

{isdnCardEntry 6}

**Description**

Determines the transmit clock timing source used for this card.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.6

**Data Type**

Integer. Possible values and their meaning are shown in the following table:

Value	String	Meaning
1	sclk	Transmit PRI stream timing derived from the system.
2	loop	Transmit PRI stream timing derived from the received stream.
3	clk1544	Transmit PRI stream timing synchronized to the frame signal.
4	clk2048	Transmit PRI stream timing from an external 2.048 MHz synchronization source.

**Access Policy**

Read-write

**Status**

Mandatory

**Default Value**

sclk

**isdnCAlnpulseRuleIndex**

{isdnCardEntry 7}

**Description**

A foreign key corresponding to the inpulseRuleIndex in the inpulseTable. Access this object when you assign a particular inpulse rule to the card.

Determines the inpulse rule processed when a SETUP message is received through this card's controlling D-channel.

This rule applies when the Channel ID within the SETUP message specifies a B-channel as the bearer channel (call associated connections). If you are using NFAS, an impulse rule is assigned only to the cards containing the primary and backup D-channels. You must have already defined the chosen impulse rule at the control console by using the Impulse Rule Table screens or the objects in the Impulse Rule Table.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.7

**Data Type**

Integer. Possible values for this field are from 0 to 30 in 2K mode, or from 0 to 255 in 4K mode. Zero means you are not selecting a default impulse rule.

**Access Policy**

Read-write

**Status**

Mandatory

**Default Value**

{0} No default impulse rule

## isdnNcalImpulseRuleIndex

{isdnCardEntry 8}

**Description**

A foreign key corresponding to the impulseRuleIndex in the impulseTable. Access this object when you assign a particular impulse rule to the card.

Determines the impulse rule processed when a setup message is received through this card's controlling D-channel.

This rule applies when the Channel ID within the setup message specifies the D-channel as the bearer channel non-call associated signaling. If you are using NFAS, an impulse rule is assigned only to the cards containing the Primary and Backup D-channels. You must have already defined the chosen impulse rule by using either the Impulse Rule Table screen on the control console or using the objects impulseRuleTable.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.8

**Data Type**

Integer. Possible values for this field are from 0 to 30 in 2K mode, or from 0 to 255 in 4K mode. Zero means you are not selecting a default impulse rule.

**Access Policy**

Read-write

**Status**

Mandatory

**Default Value**

{0} Zero

## isdnSlipLimit

{isdnCardEntry 9}

### Description

Determines the number of transmit or receive slips the switch can detect for the card in a 24-hour period before threshold processing occurs. Threshold processing either resets the card or sets it to maintenance to await manual intervention. The featureManualInterventionForSLIPOOF object (1.3.6.1.4.1.886.1.1.19.4) controls the card setting.

Separate slip maintenance counts are maintained for receive and transmit slips. When either of these counters reaches the limit, threshold processing occurs. Slip counters are displayed in the Diagnostic Card Display screen on the system administrator's console. Slip counters are reset at midnight and whenever you change the value in this object.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.9

### Data Type

Integer. Possible values are from 0 to 255. When you choose zero, slip maintenance processing is inhibited. Zero (0) is recommended when the TRX Clock is set to loop.

### Access Policy

Read-write

### Status

Mandatory

### Default Value

{255} Transit or receive slips.

## isdnSwitchType

{isdnCardEntry 10}

### Description

Determines the type of switch to which you are connecting this PRI/N. This enables correct handling of manufacturer-specific ISDN implementations. You can change the value in this object only when the card status is OOS.



### Note

The AT&T model 5ESS switch does not currently support NFAS. If you are using the system NFAS option you must configure the PRI/N cards to connect to either AT&T model 4ESS or Northern Telecom model DMS-100 switches.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.10

### Data Type

Integer. The valid numerical and string values for this field are shown in the following table:



Value	String	Meaning
1	att5md	AT&T 5MD (Default value)
2	ntmd	Northern Telecom Mode
3	att4md	AT&T 4MD
4	dpnssAx	Digital Private Network Signaling System
5	dpnssAy	Digital Private Network Signaling System
6	dpnssBx	Digital Private Network Signaling System
7	dpnssBy	Digital Private Network Signaling System
8	dass2Et	Digital Access Signaling System No. 2 Exchange Termination
9	dass2Nt	Digital Access Signaling System No. 2 Network Termination
10	dss1	Digital Signaling System 1 (E1 PRI)
11	net5-aus	Australia
12	net5-bel	Belgium
13	net5-den	Denmark
14	net5-fin	Finland
15	net5-fra	France
16	net5-ger	Germany
17	net5-grc	Greece
18	net5-ice	Iceland
19	net5-ire	Ireland
20	net5-ned	Netherlands
21	net5-nor	Norway
22	net5-por	Portugal
23	net5-spa	Spain
24	net5-swe	Sweden
25	net5-swi	Switzerland
26	net5-uk	United Kingdom
27	net5-lux	Luxemborg
28	net5-ita	Italy
29	ntt	Japan
30	ni2	National ISDN

**Access Policy**

Read-write

**Status**

Mandatory

**Default Value**

{1} att5md

## isdnRefClock

{isdnCardEntry 11}

### Description

Determines the reference clock timing source used for this card. Applies only if this card is specified as the current timing source with one of the following methods:

- Master Timing Link Selection menu on the control console
- T1 Synchronization Control (\$C0 02) host command
- masTimingSource object

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.11

### Data Type

Integer. The numerical and string values for this field are shown in the following table:

Value	String	Meaning
1	rcvd	Reference clock is derived from the line interface unit (LIU).
2	clck1544	Reference clock is derived from the PRI/N card framer.
3	clck2048	Reference clock is derived from an external 2.048 MHz synchronization source.

### Access Policy

Read-write

### Status

Mandatory

### Default Value

(1) rcvd

## isdnLaw

{isdnCardEntry 12}

### Description

Specifies voice coding on the PRI stream. The switch automatically turns off translation for calls that specify unrestricted digital information bearer capability.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.12

### Data Type

Integer. The possible values for this field and their meanings are shown in the following table:

Value	String	Meaning
1	Mu	Mu Law encoding North America.
2	a	A Law encoding Europe.

**Access Policy**

Read-write

**Status**

Mandatory

**Default Value**

(1) Mu Law

**isdnOof**

{isdnCardEntry 13}

**Description**

Determines the number of Out-of-Frames (OOFs) the switch detects for this card in a 24-hour period before the switch begins threshold processing. Threshold processing either resets the card or sets it to maintenance to await manual intervention.

Setting of the card is controlled by the value in the featureManualInterventionForSLIPOOF object (1.3.6.1.4.1.886.1.1.19.4). The OOF counter is reset at midnight or whenever you change the value in this object.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.13

**Data Type**

Integer. Possible values for this field are from 0 to 255. Zero (0) means you are not selecting OOF maintenance processing. The zero setting is not recommended.

**Access Policy**

Read-write

**Status**

Mandatory

**Default Value**

17

**isdnSpanLength**

{isdnCardEntry 14}

**Description**

Determines the line equalization used for the data stream. Choices are expressed either in terms of the cable length between the PRI/N card and the connected equipment or as defined by FCC Part 68 Option A.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.14

**Data Type**

Integer. Possible values for this field and their meanings are shown in the following table:

Value	String	Meaning
1	leng0-133	From 0 to 133 feet.
2	leng133-266	From 133 feet to 266 feet.
3	leng266-399	From 266 feet to 399 feet.
4	leng399-533	From 399 feet to 533 feet.
5	leng533-655	From 533 feet to 655 feet.
6	lengPT-68-A	Equalization as defined by FCC Part 68 Option A.

**Access Policy**

Read-write

**Status**

Mandatory

**Default Value**

{1} leng0-133

**isdnSpanType**

{isdnCardEntry 15}

**Description**

Determines the format of the data stream. You can change this value only when the card status is OOS.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.15

**Data Type**

Integer. Possible values for this field and their meanings are shown in the following table. Default value = 1 (esf).

Value	String	Meaning
1	esf	Extended Superframe format, binary 8-bit zero suppression (B8ZS).
2	d3-d4	T1 D3/D4 format, binary 8-bit zero suppression (B8ZS).

**Access Policy**

Read-write

**Status**

Mandatory

## isdnCardStatus

{isdnCardEntry 16}

### Description

Indicates the current status of the card. You can also change this field from the system administrator's Card Maintenance screen.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.16

### Data Type

Integer. Possible values and their meanings are shown in the following table:

Value	String	Meaning
1	active <sup>1</sup>	Ports on this card can be involved in active calls and can be allocated to new calls.
2	maintenance <sup>1</sup>	One or more ports on this card might be involved in active calls. No ports are allocated to new calls.
3	diagnostics	No ports on this card are involved in calls or allocated to new calls.
4	outOfService	No ports on this card can be involved in active calls. No ports are allocated to new calls.
8	remoteLoopback	No channels on this card are involved in calls or allocated to new calls.

1. The agent might take as long as 10 seconds to put a card into the Active state.

### Access Policy

Read-write

### Status

Mandatory

## isdnCardType

{isdnCardEntry 17}

### Description

Specifies the type of ISDN card. The isdnCardType is the secondary index into the ISDN card table.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.17

### Data Type

Integer. The numerical and string values are shown in the following table:

Value	String	Meaning
1	pri	Primary Rate Interface Card
2	priN	Primary Rate Interface Card Non-Facility Associated Signaling

Value	String	Meaning
3	dss1	Digital Subscriber Service Card No. 1
4	dpnss	Digital Private Network Signaling System No. 1
5	dass2nt	Digital Access Signaling System No.2, Network Termination
6	dass2et	Digital Access Signaling System No. 2, Exchange Termination
7	net5	NET5 European E1 PRI
8	nttpri	Japanese PRI

**Access Policy**

Read only

**Status**

Mandatory

**isdnRevVer**

{isdnCardEntry 18}

**Description**

Contains the version and the revision level numbers of the firmware installed on this card. Use this object to verify the firmware revisions you installed for all network interface and service circuit cards are at the current level.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.18

**Data Type**

DisplayString. Length of the DisplayString is from 1 to 5 characters.

**Access Policy**

Read only

**Status**

Mandatory

**isdnPhyAdd**

{isdnCardEntry 19}

**Description**

The physical address of this card. The address is assigned by the system.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.19

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnUnusedPorts**

{isdnCardEntry 20}

**Description**

Indicates the number of ports not currently active on this card. For multispan cards, this object indicates the number of ports not currently active on individual spans. Valid only for network interfaces and internal service circuit ports.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.20

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnNfasGrpIndex**

{isdnCardEntry 21}

**Description**

A foreign key in the NFAS group table that indicates to which NFAS group this card belongs. To change this attribute, set the isdnEntryStatus and the nfasGroupTable objects to underModification (3).

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.21

**Data Type**

Integer

**Access Policy**

Read-write

**Status**

Mandatory

## isdNfasGrpPosition

{isdNCardEntry 22}

**Description**

Specifies the position of the card in the assigned resource group.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.22

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

## isdNProtocolT200

{isdNCardEntry 23}

**Description**

Value, in seconds, for the acknowledgment timer.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.23

**Data Type**

Integer. Values are in seconds.

**Access Policy**

Read only

**Status**

Mandatory

## isdNProtocolT201

{isdNCardEntry 24}

**Description**

Minimum time between retransmission of the TEI Identity checks.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.24

**Data Type**

Integer

**Access Policy**

Read only



**Status**

Mandatory

**isdnProtocolT203**

{isdnCardEntry 25}

**Description**

Maximum time allowed without frames being exchanged.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.25

**Data Type**

Integer. Value is in seconds.

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolN200**

{isdnCardEntry 26}

**Description**

Maximum number of retransmissions.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.26

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolN201**

{isdnCardEntry 27}

**Description**

Maximum number of octets in an information field.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.27

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolWindowSize**

{isdnCardEntry 28}

**Description**

Window size.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.28

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolT303**

{isdnCardEntry 29}

**Description**

Timer started on SETUP sent.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.29

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolT305**

{isdnCardEntry 30}

**Description**

Timer started on DISC (disconnect).

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.30

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolT308**

{isdnCardEntry 31}

**Description**

Timer started on REL (release) sent.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.31

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolT309**

{isdnCardEntry 32}

**Description**

Timer started on data link disconnection.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.32

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolT310**

{isdnCardEntry 33}

**Description**

Timer started on CALL PROC (call processing) received.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.33

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolT313**

{isdnCardEntry 34}

**Description**

Timer started on CONN (connection) sent.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.34

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolT315**

{isdnCardEntry 35}

**Description**

A layer 3 protocol timer value for ISDN PRI.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.35

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

## isdnProtocolT316

{isdnCardEntry 36}

**Description**

Timer started on REST sent.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.36

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

## isdnProtocolT321

{isdnCardEntry 37}

**Description**

Timer started on D-channel failure.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.37

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

## isdnProtocolT3M1

{isdnCardEntry 38}

**Description**

Timer started on SERV sent.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.38

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolTM01**

{isdnCardEntry 39}

**Description**

A layer 3 protocol timer value for ISDN PRI.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.39

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnProtocolNM01**

{isdnCardEntry 40}

**Description**

A layer 3 protocol timer value for ISDN PRI.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.40

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnCardAlarm**

{isdnCardEntry 41}

**Description**

Tracks which alarms are active on this card. Card alarms are internally represented as a bit map. There are 32 bits. A bit is set to 1 for each active card alarm. The NMS application needs to interpret the alarm status returned by this object.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.41

**Data Type**

Integer. The possible values and their meanings are shown in the following table:

Bit <sup>1</sup>	Alarm Description
0	Card Failure—Minor
1	Port Failure—Minor
2	T1/PRI Carrier Failure—Major
3	T1/PRI Remote Carrier Failure—Major
4	T1/PRI Card Failure—Major
5	T1 Signaling Bit—Minor
6	PRI Bipolar Violations MLimit Reached—Minor
7	T1/PRI Out of Frame MLimit Reached—Minor
8	T1 Slip Maint Limit Reached—Minor
9	T1/PRI OOF Condition—Minor
10	PRI D-channel Failure—Major
11-32	Unsigned Filler (set to zero)

1. The NMS application needs to interpret the alarm status from the integer value returned by this object.

**Access Policy**

Read only

**Status**

Mandatory

**isdnErrorStatus**

{isdnCardEntry 42}

**Description**

Registers the last error that occurred in this card object. For a list of the card error messages, see Appendix A, “Card Error Messages”.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.42

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory

## isdnOwnerString

{isdnCardEntry 43}

### Description

The entity that configured this object and is therefore using the assigned resources.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.43

### Data Type

OwnerString

### Access Policy

Read-write

### Status

Mandatory

## isdnEntryStatus

{isdnCardEntry 44}

### Description

Status of the programmable trunk card object.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.44

### Data Type

EntryStatus

### Access Policy

Read-write

### Status

Mandatory

## isdnDwnldVersion

{isdnCardEntry 45}

### Description

Version/revision of the card download file.

### Object Identifier

1.3.6.1.4.1.886.1.5.1.1.45

### Data Type

DisplayString (size 1..4)

### Access Policy

Read only



**Status**

Mandatory

**isdnUpgradeState**

{isdnCardEntry 46}

**Description**

The upgrade state of this isdn card entry.

**Object Identifier**

1.3.6.1.4.1.886.1.5.1.1.46

**Data Type**

UpgradeState

**Access Policy**

Read only

**Status**

Mandatory

**isdnTableLastModified**

{isdn 2}

**Description**

The time, displayed in hundredths of a second, since the isdnCardTable was last modified. Helps NMS application developers determine the polling of the agent parameters.

**Object Identifier**

1.3.6.1.4.1.886.1.5.2

**Data Type**

TimeTicks

**Access Policy**

Read only

**Status**

Mandatory

## ISDN Port Table

Use the ISDN port table section to assign a name, a hardware type, a default impulse rule, and a class of service (COS) to individual ports on an ISDN card.

## isdnPortTable

{isdn 4}

**Description**

This object contains a list of the PRI ports.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4

**Data Type**

Sequence of IsdnPortEntry

**Access Policy**

Not accessible

**Status**

Mandatory

## isdnPortEntry

{isdnPortTable 1}

**Description**

An object in the isdnPortTable.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4.1

**Data Type**

IsdnPortEntry

**Access Policy**

Not accessible

**Status**

Mandatory

**Indexes**

{isdnIndex, isdnPortIndex}

## IsdnPortEntry

Sequence

isdnPortIndex	Integer
isdnPortState	Integer
isdnPCardType	Integer
isdnPortName	DisplayString

isdnPortCos	Integer
isdnPortMajorState	PortMajorState
isdnPortSuppState	PortSuppState
isdnPortIsdnState	Integer
isdnPortCallState	Integer
isdnPortAddress	Integer
isdnResGroupIndex	Integer
isdnResGroupPosition	Integer
isdnPortErrorStatus	Integer
isdnPortOwnerString	OwnerString
isdnPortEntryStatus	PortEntryStatus

## isdnPortIndex

{isdnPortEntry 1}

### Description

Indicates the port number on the card. There are 23 ports, or B-channels, on the PRI/N. Port 24 is reserved for the D-channel. Information on deactivated ports is not displayed. This object is the primary key to the isdnPortTable.

### Object Identifier

1.3.6.1.4.1.886.1.5.4.1.1

### Data Type

Integer. The possible values for this field are from 1 to 23.

### Access Policy

Read only

### Status

Mandatory

## isdnPortState

{isdnPortEntry 2}

### Description

The state of the port. The port can be active (1) or inactive (2).

**Note**

Always modify the state of ports one at a time. That is, the EntryStatus object must be set to valid after every SNMP\_SET command on this object.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4.1.2

**Data Type**

Integer. The two values are (1) active and (2) inactive. Change the port state only one at a time.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnPCardType**

{isdnPortEntry 3}

**Description**

Specifies the type of ISDN card to which this port is attached.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4.1.3

**Data Type**

Integer. The valid numerical and string values are shown in the following table:

Value	String	Meaning
1	pri	Primary Rate Interface Card
2	priN	Primary Rate Interface /Non-Facility Associated Signaling Card
3	dss1	Digital Subscriber Service Card No. 1
4	dpnss	Digital Private Network Signaling System No. 1
5	dass2nt	Digital Access Signaling System No. 2, Network Termination
6	dass2et	Digital Access Signaling System No. 2, Exchange Termination
7	net5	NET5 European E1 PRI

**Access Policy**

Read only

**Status**

Mandatory

## isdnPortName

{isdnPortEntry 4}

### Description

Optional database object used to identify individual B-channels. When you use a port name each one should be unique and helpful in describing for what you use the port.

### Object Identifier

1.3.6.1.4.1.886.1.5.4.1.4

### Data Type

DisplayString. This field accepts up to 8 upper- or lowercase alphanumeric characters.

### Access Policy

Read-write

### Status

Mandatory

## isdnPortCos

{isdnPortEntry 5}

### Description

Class of Service (COS). For the ISDN B-channels, this object is used for resource grouping and B-channel allocation processing. Ports on the same card can have different COS marks, as determined by the application design. Information for deactivated ports (ports taken out of service) is not displayed.

### Object Identifier

1.3.6.1.4.1.886.1.5.4.1.5

### Data Type

Integer. The possible values for this field and their meaning are shown in the following table:

Value	String	Meaning
0	none	Not applicable.
1	o	Originating—Calls originating from the system. Outgoing calls initiated by the host command.
2	t	Terminating—Calls terminating at the system. Incoming calls are initiated by action outside the system or forced by the host command.
3	w2	Two-Way—Calls originating from the system or calls terminating at the system. Outgoing calls are initiated by the host command. Incoming calls are initiated by outside actions.
4	oa	Always Off Hook and Originating—Calls originating from the system. Port goes off hook at system reset and remains off hook. Outgoing calls are initiated by the host command.

Value	String	Meaning
5	ta	Always Off Hook and Terminating—Calls terminating at the system. Port goes off hook at system reset and remains off hook. Incoming calls are initiated by outside actions or forced by the host command.
6	a2	Always Off Hook and Two-Way—Calls originating from the system or calls terminating at the system. Port goes off hook at system reset and remains off hook. Outgoing calls are initiated by the host command, incoming calls are initiated by outside actions or forced by the host command.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnPortMajorState**

{isdnPortEntry 6}

**Description**

The major state of the port.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4.1.6

**Data Type**

PortMajorState

**Access Policy**

Read only

**Status**

Mandatory

**isdnPortSuppState**

{isdnPortEntry 7}

**Description**

The supplementary state of the port.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4.1.7

**Data Type**

PortSuppState

**Access Policy**

Read only

**Status**

Mandatory

## isdnPortIsdnState

{isdnPortEntry 8}

### Description

Specifies the ISDN port state.

### Object Identifier

1.3.6.1.4.1.886.1.5.4.1.8

### Data Type

Integer. The possible values and their meanings are shown in the following table:

Value	String	Meaning
1	in-serv	Inservice—The port is currently in service and available for use in a call.
2	oos-ne	Out-of-Service, Near-End—Port is currently out of service due to some VCO action (system administration). Port is unavailable for call processing. VCO action is required to put port back into service.
3	oos-fe	Out-of-Service, Far-End—Port is currently out of service due to action at the far end. Port is unavailable for call processing. Action at the far end is required to put it back into service.
4	maint-ne	Maintenance, Near-End—Port is currently in maintenance mode due to some VCO action (system administration) or signal alarm condition. Port is unavailable for call processing.
5	maint-fe	Maintenance, Far-End—Port is currently in maintenance mode due to some action at the far end. Port is unavailable for call processing. Action at the far end is require to put the port back into service.

### Access Policy

Read only

### Status

Mandatory

## isdnPortCallState

{isdnPortEntry 9}

### Description

Specifies the ISDN-call state of the call on this port.

### Object Identifier

1.3.6.1.4.1.886.1.5.4.1.9

### Data Type

Integer. The possible values and their meanings are shown in the following table:

Value	String	Meaning
0	unknown	ISDN call state of the call on this port is unknown.
1	idle	Null state (U0/Rest 0)
2	o_initiated	Call initiated (U1)
3	o_overlap	Overlap sending (U2)—reserved for future use
4	o_proceed	Outgoing call proceeding (U3)
5	o_active	Active (U10)
6	o_delivrd	Call delivered (U4)
7	i_callprs	Call present (U6)
8	i_overlap	Overlap sending (U2)—reserved for future use
9	i_proceed	Incoming call proceeding (U9)
10	i_active	Active (U10)
11	i_receivd	Call received (U7)
12	i_connect	Connect request (U8)
13	disc_ind	Disconnect indication (U12)
14	disc_req	Disconnect request (U11)
15	disc_rls	Release request (U19)

**Access Policy**

Read only

**Status**

Mandatory

**isdnPortAddress**

{isdnPortEntry 10}

**Description**

Specifies the software address (hexadecimal identifier) of the port for which data is displayed. You can also specify the port by using the hardware address.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4.1.10

**Data Type**

Integer

**Access Policy**

Read only

**Status**

Mandatory



## isdnResGroupIndex

{isdnPortEntry 11}

### Description

A foreign key corresponding to the resGroupIndex in the resGroupTable.

Indicates the number of the resource group to which this port belongs. If you do not assign a resource group, the data type for this object is blank. To change this attribute, set the isdnPortEntryStatus and the resGroupTable objects to underModification (3).

### Object Identifier

1.3.6.1.4.1.886.1.5.4.1.11

### Data Type

Integer. Possible values are from 1 to 63 for 2K mode, and from 1 to 224 for 4K mode. Information is not displayed for OOS spans.

### Access Policy

Read-write

### Status

Mandatory

## isdnResGroupPosition

{isdnPortEntry 12}

### Description

Specifies the position of the port in the assigned resource group.

### Object Identifier

1.3.6.1.4.1.886.1.5.4.1.12

### Data Type

Integer

### Access Policy

Read only

### Status

Mandatory

## isdnPortErrorStatus

{isdnPortEntry 13}

### Description

Registers the last error that occurred on this port.

### Object Identifier

1.3.6.1.4.1.886.1.5.4.1.13

### Data Type

Integer

**Access Policy**

Read only

**Status**

Mandatory

**isdnPortOwnerString**

{isdnPortEntry 14}

**Description**

The entity that configured this object and is therefore using the assigned resources.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4.1.14

**Data Type**

OwnerString

**Access Policy**

Read-write

**Status**

Mandatory

**isdnPortEntryStatus**

{isdnPortEntry 15}

**Description**

The status of this table entry.

**Object Identifier**

1.3.6.1.4.1.886.1.5.4.1.15

**Data Type**

PortEntryStatus

**Access Policy**

Read-write

**Status**

Mandatory

**isdnPortTableLastModified**

{isdn 5}

**Description**

The time, displayed in hundredths of a second, since the isdnPortTable was last modified. Helps NMS application developers determine the polling of the agent parameters.

**Object Identifier**

1.3.6.1.4.1.886.1.5.5

**Data Type**

TimeTicks

**Access Policy**

Read only

**Status**

Mandatory

## ISDN Message Template Table

### isdnMessageTempTable

{isdn 7}

**Description**

The ISDN message template summary table.

**Object Identifier**

1.3.6.1.4.1.886.1.5.7

**Data Type**

Sequence of IsdnMessageTempEntry

**Access Policy**

Not accessible

**Status**

Mandatory

### isdnMessageTempEntry

{isdnMessageTempTable 1}

**Description**

An entry in the ISDN message template table.

**Object Identifier**

1.3.6.1.4.1.886.1.5.7.1

**Data Type**

IsdnMessageTempEntry

**Access Policy**

Not accessible

**Status**

Mandatory

**Index**

{isdnMessageTempIndex }

**IsdnMessageTempEntry**

Sequence

isdnMessageTempIndex	Integer
isdnMessageTempMessage	Integer
isdnMessageTempRT	Integer
isdnMessageTempErrorStatus	Integer
isdnMessageTempOwnerString	OwnerString
isdnMessageTempEntryStatus	EntryStatus

**isdnMessageTempIndex**

{isdnMessageTempEntry 1 }

**Description**

The template number. Templates are listed in ascending order from 1 to 96.

An isdnMessageTempIndex is referenced from the inpulseTable and outpulseTable with the argument attribute in those tables that is associated with inpulse and outpulse instructions ISDN RX (35) and ISDN TX (36).

**Object Identifier**

1.3.6.1.4.1.886.1.5.7.1.1

**Data Type**

Integer. Possible values are from 1 to 96.

**Access Policy**

Read only

**Status**

Mandatory

**isdnMessageTempMessage**

{isdnMessageTempEntry 2 }

**Description**

Specifies the ISDN message for which the template is defined.

The list in the data type section contains the only messages that the host or ISDN Message Templates can control. Other ISDN messages trigger autonomous processing in the system. Definitions for ISDN messages are contained in AT&T TR41449 and NIS A211-1. Unless otherwise specified, you can use messages for either transmitting or receiving.

### Object Identifier

1.3.6.1.4.1.886.1.5.7.1.2

### Data Type

Integer. The possible values and their meanings are shown in the following table:

Value	String	Meaning
0	empty	Place holder for no message
1	chained	Chained template
2	alerting	Alerting message
3	callproc	Call Proceeding message
4	connect	Connect message
5	connack	Connect Acknowledgment message
6	progress	Progress message
7	setup	Setup message
8	disc	Disconnect message
9	release	Release message
10	rls-cmpl	Release Complete message
11	restart	Restart message
12	restack	Restart Acknowledgment message
13	userinfo	User Information message
14	congest	Congestion Control message
15	facility	Facility message
16	status	Status message
17	statenq	Status Enquiry message
18	facilack	Facility Acknowledge message
19	facilrej	Facility Reject message
20	register	Register message

### Access Policy

Read-write

### Status

Mandatory

## isdnMessageTempRT

{isdnMessageTempEntry 3}

### Description

Indicates whether this template is defined for receiving messages or transmitting messages.

### Object Identifier

1.3.6.1.4.1.886.1.5.7.1.3

### Data Type

Integer. Possible values and their meanings are shown in the following table:

Value	String	Meaning
0	empty	Empty
1	r	Template is defined for receive processing. ISDN RX token is used to specify the template number in a rule.
2	t	Template is defined for transmit processing. ISDN TX token is used to specify this template number in a rule.

### Access Policy

Read-write

### Status

Mandatory

## isdnMessageTempErrorStatus

{isdnMessageTempEntry 4}

### Description

Registers the last error that occurred on this card.

### Object Identifier

1.3.6.1.4.1.886.1.5.7.1.4

### Data Type

Integer. The possible values and their meanings are shown in the following table:

Value	Meaning
3072	invalidPos
3073	templateExists
3074	templateNotEmpty
3075	mustBeChained
3076	cannotChangeMessageType
3077	ioRuleCannotCalledChained
3078	cannotChangeRxTxType

Value	Meaning
3079	invalidRxTx
3080	invalidAct
3081	cannotSetAction
3082	cannotSetIe
3083	cannotSetDate
3084	exceededMaxNumOfActions
3085	illegalAction
3086	invalidRangeOfGotmpDotmp
3087	invalidRangeOfData
3088	notChained
3089	cannotSetIeData
3090	ieNotAllowed
3091	invalidRangeOfCodeset

**Access Policy**

Read only

**Status**

Mandatory

**isdnMessageTempOwnerString**

{isdnMessageTempEntry 5}

**Description**

The entity that configured this object and is therefore using the assigned resources.

**Object Identifier**

1.3.6.1.4.1.886.1.5.7.1.5

**Data Type**

OwnerString

**Access Policy**

Read-write

**Status**

Mandatory

**isdnMessageTempEntryStatus**

{isdnMessageTempEntry 6}

**Description**

The status of this programmable trunk card entry.

**Object Identifier**

1.3.6.1.4.1.886.1.5.7.1.6

**Data Type**

EntryStatus

**Access Policy**

Read-write

**Status**

Mandatory

**isdnMessageTempTableLastModified**

{ isdn 11 }

**Description**

The time (in hundredths of a second) since the epoch that the isdnMessageTempTable was last modified.

**Object Identifier**

1.3.6.1.4.1.886.1.5.11

**Data Type**

TimeTicks

**Access Policy**

Read only

**Status**

Mandatory

## ISDN Template Instructions

This section lists the objects within the ISDN template instructions table. You can define up to 96 templates for use in rule processing of ISDN calls.

**isdnTempInstructionTable**

{ isdn 8 }

**Description**

A matrix of ISDN template instructions.

**Object Identifier**

1.3.6.1.4.1.886.1.5.8

**Data Type**

Sequence of IsdnTempInstructionEntry

**Access Policy**

Not accessible



**Status**

Mandatory

**isdnTempInstructionEntry**

{isdnTempInstructionTable 1}

**Description**

An ISDN template instruction is a combination of an action, an instruction element, or data element, which constitutes a single ISDN instruction.

**Object Identifier**

1.3.6.1.4.1.886.1.5.8.1

**Data Type**

IsdnTempInstructionEntry

**Access Policy**

Not accessible

**Status**

Mandatory

**Index**

{isdnMessageTempIndex, isdnTempInstructionIndex }

**isdnTempInstructionEntry**

Sequence

isdnTempInstructionIndex Integer

isdnTempAction Integer

isdnTempIeData Integer

**isdnTempInstructionIndex**

{isdnTempInstructionEntry 1}

**Description**

Identifies an instruction in an ISDN template. Up to five instructions make up an ISDN template.

**Object Identifier**

1.3.6.1.4.1.886.1.5.8.1.1

**Data Type**

Integer. The valid range is 1 to 15.

**Access Policy**

Read only

**Status**

Mandatory

**isdnTempAction**

{isdnTempInstructionEntry 2}

**Description**

Forms the action token of an ISDN template.

**Object Identifier**

1.3.6.1.4.1.886.1.5.8.1.2

**Data Type**

Integer. The possible values and their meaning are shown in the following table:

Value	String	Meaning
0	empty	Not populated
1	rep	Report IE—rx only
2	repall	Report all IEs—rx only
3	norep	Do not report specific IE—rx only
4	process	Process IE—rx only
5	ie	Construct an IE for D Channel transmit
6	data	Specify hexadecimal bytes for D Channel transmit
7	fld1	Store or use IE contents in field 1
8	fld2	Store or use IE contents in field 2
9	fld3	Store or use IE contents in field 3
10	fld4	Store or use IE contents in field 4
11	ani	Store or use IE contents in ANI field
12	ifld1	Store or use IE header in field 1
13	ifld2	Store or use IE header in field 2
14	ifld3	Store or use IE header in field 3
15	ifld4	Store or use IE header in field 4
16	iani	Store or use IE header in ANI field
17	dffd1	Store or use IE digits in field 1
18	dffd2	Store or use IE digits in field 2
19	dffd3	Store or use IE digits in field 3
20	dffd4	Store or use IE digits in field 4
21	dani	Store or use IE digits in ANI field
22	codeset	Change to new codeset
23	gotmp	Go to a chained ISDN template
24	dotmp	Run a chained template as a subroutine

**Access Policy**

Read-write

**Status**

Mandatory

**isdnTempleData**

{isdnTempInstructionEntry 3}

**Description**

The IData object associated with the ISDN Message Action. A valid instruction can have its IE or its DATA object field set. When a DATA field is associated with an action, the IE field is set to zero. Also, when an IE field is associated with an action, the DATA field is set to zero (0).

**Object Identifier**

1.3.6.1.4.1.886.1.5.8.1.3

**Data Type**

Integer. The possible values and their meanings are shown the following table.

Value <sup>1</sup>	String	Meaning
0	empty	Place holder for no ISDNIE
1	bearer	Bearer Capability
2	cause	Cause
3	connum	Connected Number
4	callid	Call Identity
5	callst	Call State
6	chngstat	Change Status
7	chanid	Channel ID
8	progress	Progress Indicator
9	facility	Facility
10	signal	Signal
11	cpNum	Calling Party Number
12	cpSaddr	Calling Party Subaddress
13	cdNum	Called Party Number
14	cdSaddr	Called Party Subaddress
15	rdNum	Redirecting Number
16	tnSel	Transit Network Selection
17	restart	Restart
18	llComp	Low Layer Compatibility
19	hlComp	High Layer Compatibility
20	usrUsr	User to User

Value <sup>1</sup>	String	Meaning
21	moredata	More Data
22	cngstrr	Congestion Level, Receiver Ready
23	cngstrnr	Congestion Level, Receiver Not Ready
24	display	Display data (Codeset 6, not tokenized)
25	netfac	Network Service Facility

1. The DATA field does not accept a value greater than 7 digits (hexadecimal), even though the field on the system administrator's console accepts up to 8 (hexadecimal). This is due to a range limitation on the INTEGER variable used in SNMPv1.

**Access Policy**

Read-write

**Status**

Mandatory

## ISDN Supervision Template Table

Use the ISDN supervision template table to configure up to 24 supervision templates for use with the ISDN SUP [xx] outpulse rule token. Each template defines a set of system responses to the detection of specific ISDN messages, such as ALERTING, CONNECT, PROGRESS, and CALL PROC (Call Proceeding).

### isdnSupTempTable

{isdn 9}

**Description**

ISDN supervision template table.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9

**Data Type**

Sequence of IsdnSupTempEntry

**Access Policy**

Not accessible

**Status**

Mandatory

### isdnSupTempEntry

{isdnSupTempTable 1}

**Description**

An object in the ISDN supervision template table.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1

**Data Type**

IsdnSupTempEntry

**Access Policy**

Not accessible

**Status**

Mandatory

**Index**

{isdnSupTempIndex}

**IsdnSupTempEntry**

Sequence

isdnSupTempIndex	Integer
isdnSupTempTime	Integer
isdnSupTempAlerting	Integer
isdnSupTempProgress	Integer
isdnSupTempConnect	Integer
isdnSupTempCallProc	Integer
isdnSupTempConnAck	Integer
isdnSupTempUserInfo	Integer
isdnSupTempCongest	Integer
isdnSupTempFacilAck	Integer
isdnSupTempFacilRej	Integer
isdnSupTempErrorStatus	Integer
isdnSupTempOwnerString	OwnerString
isdnSupTempEntryStatus	EntryStatus

## isdnSupTempIndex

{isdnSupTempEntry 1}

### Description

Use this table to configure up to 24 supervision templates.

### Object Identifier

1.3.6.1.4.1.886.1.5.9.1.1

### Data Type

Integer. Possible values for this field are from 1 to 24.

### Access Policy

Read only

### Status

Mandatory

## isdnSupTempTime

{isdnSupTempEntry 2}

### Description

Expiration of a timer and ISDN message. The switch starts the timer when the supervision template processing begins and cancels timing when it detects an event. The timer's duration is specified in a preceding TIME SUP outpulse rule token. You must specify a token to get the switch to perform timing.

### Object Identifier

1.3.6.1.4.1.886.1.5.9.1.2

### Data Type

Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	Indicates that the VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	Indicates that the VCO system will report the event to the host when it detects the event.

Value	String	Meaning
6	error	
7	fail	The signaling event indicates a failed call.
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempAlerting**

{isdnSupTempEntry 3}

**Description**

Alerting. Call establishment.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.3

**Data Type**

Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event. An ISDN Port Change of State (\$EA) report is generated containing the event indicator.
6	error	
7	fail	The signaling event indicates a failed call.

Value	String	Meaning
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.
9	prp	Valid only for alerting, progress, and call proc events. The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token. The event is to be propagated (sent back) to the incoming port.
10	prprep	Valid only for alerting, progress, and call proc events. The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token. The event is to be sent back to the incoming port.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempConnect**

{isdnSupTempEntry 4}

**Description**

Connect. Call establishment

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.4

**Data Type**

Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event.



Value	String	Meaning
6	error	
7	fail	The signaling event indicates a failed call.
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempProgress**

{isdnSupTempEntry 5}

**Description**

Progress. Call establishment.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.5

**Data Type**

Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event.
6	error	
7	fail	The signaling event indicates a failed call.

Value	String	Meaning
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.
9	prp	Valid only for alerting, progress, and call proc events. The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token. The event is to be propagated (sent back) to the incoming port.
10	prprep	Valid only for alerting, progress, and call proc events. The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token. The event is to be sent back to the incoming port.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempCallProc**

{isdnSupTempEntry 6}

**Description**

Call proceeding. Call establishment.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.6

**Data Type**Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event.

Value	String	Meaning
6	error	
7	fail	The signaling event indicates a failed call.
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.
9	prp	Valid only for alerting, progress, and call proc events. The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token. The event is to be propagated (sent back) to the incoming port.
10	prprep	Valid only for alerting, progress, and call proc events. The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token. The event is to be sent back to the incoming port.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempConnAck**

{isdnSupTempEntry 7}

**Description**

Connect acknowledge. Call establishment.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.7

**Data Type**Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).

Value	String	Meaning
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event.
6	error	The signaling event indicates a failed call.
7	fail	
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnsupTempUserInfo**

{isdnsupTempEntry 8}

**Description**

User information. Call information phase.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.8

**Data Type**Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event.

Value	String	Meaning
6	error	
7	fail	The signaling event indicates a failed call.
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempCongest**

{isdnSupTempEntry 9}

**Description**

Congestion control. Miscellaneous.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.9

**Data Type**

Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event.

Value	String	Meaning
6	error	
7	fail	The signaling event indicates a failed call.
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempFacilAck**

{isdnSupTempEntry 10}

**Description**

Facility acknowledge. Miscellaneous.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.10

**Data Type**

Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event.

Value	String	Meaning
6	error	
7	fail	The signaling event indicates a failed call.
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempFacilRej**

{isdnSupTempEntry 11}

**Description**

Facility reject. Miscellaneous.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.11

**Data Type**

Integer. The numerical and string values are shown in the following table. For further information, refer to the *Cisco VCO/4K System Administrator's Guide*.

Value	String	Meaning
0	empty	You have not specified a token.
1	ok	The VCO system detected an event during processing of the ISDN SUP [xx] outpulse rule token.
2	okrep	The VCO system detected the event during processing of the ISDN SUP [xx] outpulse rule token.
3	ansbk	Valid only for the CONNECT event. The VCO system detected a CONNECT event during processing of the ISDN SUP [xx] outpulse rule token. The answer back was sent to the incoming port (assuming the port has not already been answered).
4	ansrep	Same as ANSBK except that an ISDN Port Change of State (\$EA) report to the host is generated.
5	rep	The VCO system will report the event to the host when it detects the event.

Value	String	Meaning
6	error	
7	fail	The signaling event indicates a failed call.
8	quit	The event causes outpulse rule processing to abort. Template processing ends, and the outgoing port returns to the state it was in prior to outpulse rule processing, but is not removed from the call.

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempErrorStatus**

{isdnSupTempEntry 12}

**Description**

Registers the last error that occurred on this card.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.12

**Data Type**

Integer. The possible values and their meanings are shown in the following table:

Value	String
2048	invalidTemplateId
2049	templateAlreadyExists
2050	invalidAction
2051	templateNotEmpty

**Access Policy**

Read only

**Status**

Mandatory

**isdnSupTempOwnerString**

{isdnSupTempEntry 13}

**Description**

The entity that configured this object and is therefore using the assigned resources.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.13



**Data Type**

OwnerString

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempEntryStatus**

{isdnSupTempEntry 14}

**Description**

Status of the programmable trunk card object.

**Object Identifier**

1.3.6.1.4.1.886.1.5.9.1.14

**Data Type**

EntryStatus

**Access Policy**

Read-write

**Status**

Mandatory

**isdnSupTempTableLastModified**

{isdn 10}

**Description**

The time (in hundredths of a second) since the epoch that the isdnSupTempTable was last modified.

**Object Identifier**

1.3.6.1.4.1.886.1.5.10

**Data Type**

TimeTicks

**Access Policy**

Read only

**Status**

Mandatory

