

ICC Card Group

The Interface Controller Card (ICC) is a high-capacity network interface engine. The ICC card uses the VCO/4K mid-plane architecture which enables the card to connect with a series of I/O modules specific to different network interface requirements. The mid-plane isolates the unique physical characteristics of each type of connection leaving the ICC to perform all of the signaling and protocol processing independently. There are six I/O modules supporting 4, 8, or 16 network spans.

For information on the ICC or ICC I/O Modules, refer to the *Cisco VCO/4K Card Technical Descriptions*.

The following objects are included in the ICC Card group.

iccTable

{icc 1}

Description

A list of ICC cards.

Object Identifier

1.3.6.1.4.1.886.1.12.1

Data Type

Sequence of iccEntry

Access Policy

Not accessible

Status

Mandatory

iccEntry

{iccTable 1}

Description

An entry in the iccTable.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1

Data Type

IccEntry

Access Policy

Not accessible

Status

Mandatory

IccEntry

Sequence

iccIndex	CardIndex
iccType	Integer
iccRack	Integer
iccLevel	Integer
iccSlot	Integer
iccGroupNum	Integer
iccIntfNum	Integer
iccTxGain	Integer
iccRxGain	Integer
iccTxClk	Integer
iccRfClk	Integer
iccSpanType	Integer
iccSlip	Integer
iccOutOfFrame	Integer
iccCode	Integer
iccLeng	Integer
iccCrc	Integer
iccTs0	Integer
iccTs16	Integer

iccStatus	Integer
iccUnusedPorts	Integer
iccRevVer	DisplayString
iccPhyAdd	Integer
iccNfasGrpIndex	Integer
iccNfasGrpPosition	Integer
iccAlarm	Integer
iccErrorStatus	Integer
iccOwnerString	OwnerString
iccEntryStatus	EntryStatus
iccDwnldVersion	DisplayString
iccUpgradeState	UpgradeState
iccIsdnAccessType	PriAccessMode
iccIsdnCaInpulseRuleIndex	InpulseRuleIndex
iccIsdnNcaInpulseRuleIndex	InpulseRuleIndex
iccIsdnSwitchType	PriSwitchType
iccIsdnLaw	LawType
iccIsdnProtocolT200	Integer
iccIsdnProtocolT201	Integer
iccIsdnProtocolT203	Integer
iccIsdnProtocolN200	Integer
iccIsdnProtocolN201	Integer
iccIsdnProtocolWindowSize	Integer
iccIsdnProtocolT303	Integer
iccIsdnProtocolT305	Integer
iccIsdnProtocolT308	Integer

iccIsdnProtocolT309	Integer
iccIsdnProtocolT310	Integer
iccIsdnProtocolT313	Integer
iccIsdnProtocolT315	Integer
iccIsdnProtocolT316	Integer
iccIsdnProtocolT321	Integer
iccIsdnProtocolT3M1	Integer
iccIsdnProtocolTM01	Integer
iccIsdnProtocolNM01	Integer

iccIndex

{iccEntry 1}

Description

The value of this object uniquely identifies an entry in the icc table. It corresponds to the physical location of the card and is a function of the rack (R), level (L), and the slot (S) that the card occupies.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.1

Data Type

CardIndex

Access Policy

Read only

Status

Mandatory

iccType

{iccEntry 2}

Description

Specifies the type of icc card. nxT1 and nxE1 indicate non-ISDN types.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.2

Data Type

Integer. Possible values are as follows:

Value	Card Type
1	nxT1
2	nxE1
3	t1IsdnPriNi2
4	t1IsdnPri5Ess
5	t1IsdnPri4ess
6	t1IsdnPriNti
7	t1IsdnPriNtt
8	e1IsdnPriNet5
9	e1IsdnPriQsig
10	e1IsdnPriTs014

Access Policy

Read only

Status

Mandatory

iccRack

{iccEntry 3}

Description

The rack (R) that the card occupies.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.3

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccLevel

{iccEntry 4}

Description

The level (L) that the card occupies.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.4

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccSlot

{iccEntry 5}

Description

The slot (S) that the card occupies

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.5

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccGroupNum

{iccEntry 6}

Description

Specifies the group number of an interface.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.6

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccIntfNum

{iccEntry 7}

Description

Specifies the interface number of an interface.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.7

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccTxGain

{iccEntry 8}

Description

Only valid when iccType is one of the non-ISDN types, i.e., nxT1 or nxE1. When iccType is one of the ISDN flavors, a get on this object will return unknownOrNa and a set on this object will result in an error.

Indicates the transmit gain control. Possible values include -6 dB, -3 dB, 0 dB, +3 dB, +6 dB. The default value is 0 dB.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.8

Data Type

Integer. Possible values are as follows:

Value	Transmit Gain Control
1	minus6db
2	minus3db
3	zerodb
4	plus3db
5	plus6db
255	unknownOrNa

Access Policy

Read-write

Status

Mandatory

iccRxGain

{iccEntry 9}

Description

Only valid when iccType is one of the non-ISDN types, i.e., nxT1 or nxE1. When iccType is one of the ISDN flavors, a get on this object will return unknownOrNa and a set on this object will result in an error.

Indicates the reference gain control. Possible values include -6 dB, -3 dB, 0 dB, +3 dB, +6 dB. The default value is 0 dB.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.9

Data Type

Integer. Possible values are as follows:

Value	Reference Gain Control
1	minus6db
2	minus3db
3	zerodb
4	plus3db
5	plus6db
255	unknownOrNa

Access Policy

Read-write

Status

Mandatory

iccTxClk

{iccEntry 10}

Description

T1: Indicates the transmit clock (timing source) for this span. Possible values include SCLK, LOOP, and 1544.

SCLK = VCO system clock

LOOP = incoming line

1544 = board crystal

E1: Indicates the transmit clock (timing source) for this span. Possible values include SCLK, LOOP, and 2048.

SCLK = VCO system clock

LOOP = incoming line

2048 = board crystal

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.10

Data Type

Integer. Possible values are as follows:

Value	Transmit Clock (timing source)
1	sclk
2	loop
3	tx-1544
4	tx-2048
255	unknown

Access Policy

Read-write

Status

Mandatory

iccRfClck

{iccEntry 11}

Description

T1/MVDCT1: Indicates the reference clock (timing source) for this span. Applies only if this span is specified as the current timing source using either the Master Timing Link Selection menu on the console, the T1 Synchronization Control (\$C0 02) host command, or the masTimingSource MIB object. Possible values include LOOP or 1544.

LOOP = incoming line

1544 = board crystal

When you choose a span as the master timing source, the reference clock for the span creates the VCO system clock.

E1: Indicates the reference clock (timing source) for this span. Applies only if this span is specified as the current timing source using either the Master Timing Link Selection menu on the console, the T1 Synchronization Control (\$C0 02) host command, or the masTimingSource MIB object. Possible values include LOOP or 2048.

LOOP = incoming line

2048 = board crystal

When you choose a span as the master timing source, the reference clock for the span creates the VCO system clock.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.11

Data Type

Integer. Possible values are as follows:

Value	Reference Clock (timing source)
1	loop
2	rf-1544
3	rf-2048
255	unknown

Access Policy

Read-write

Status

Mandatory

iccSpanType

{iccEntry 12}

Description

T1: Indicates the format of the T1 stream. You can only change this value when the span status is Out of Service (OOS). Possible values include SF, ESF, SF_NR, and ESF_NR.

SF = Superframe

ESF = Extended superframe

SF_NR = Superframe without robbed bit signaling

ESF_NR = Extended superframe without robbed bit signaling.

If you select an SF_NR or ESF_NR span type, the per port SIG TYPE object (iccPortSigType) is ignored.

E1: Indicates the format of the E1 stream. You can only change this value when the span status is OOS. Possible values include CAS/R2, CAS/MC, and CCS/31B.

CAS/R2 = Channel Associated signaling/R2 mode

CAS/MC = Channel Associated signaling/Mercury Mode

CCS/31B = Common Channel signaling/31 Bearer channels.

userDefX = user defined

If you specify the CCS/31 format, the TS16 object (iccTs16) is not meaningful.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.12

Data Type

Integer. Possible values are as follows:

Value	T1/E1 stream format
1	sf
2	esf
3	sf-nr
4	esf-nr
5	cas-r2
6	cas-mc
7	ccs-31b
8	userDef1
9	userDef2
10	userDef3
11	userDef4
12	userDef5
13	userDef6
255	unknown

Access Policy

Read-write

Status

Mandatory

iccSlip

{iccEntry 13}

Description

Determines the number of transmit or receive Slips that can be detected for this span, in a 24-hour period, before threshold processing occurs. Control this processing with the SLIP/OOF feature flag. Separate Slip maintenance counts are maintained for receive and transmit Slips. When either of these counters reaches the limit, threshold processing occurs. The current Slip count appears on the Diagnostics Card Display screen. Slip counters are reset at midnight and when this object is changed.

Possible values are between 0 (Slip maintenance processing is inhibited—recommended when TRX Clock = LOOP) and 255. The default value is 255.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.13

Data Type

Integer (0...255). Default value is 255.

Access Policy

Read-write

Status

Mandatory

iccOutOfFrame

{iccEntry 14}

Description

Determines the number of Out of Frames (OOFs) detected for this span, in a 24-hour period, before threshold processing occurs. Control this processing with the SLIP/OOF feature flag. The OOF counter is reset at midnight and when this object is changed.

Possible values are between 0 (OOF maintenance processing inhibited—not recommended) and 255. The default value is 17.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.14

Data Type

Integer (0...255). Default value is 17.

Access Policy

Read-write

Status

Mandatory

iccCode

{iccEntry 16}

Description

Only valid when iccType is one of the non-ISDN types, i.e., nxT1 or nxE1. When iccType is one of the ISDN flavors, a get on this object will return unknownOrNa and a set on this object will result in an error.

T1/MVDCT1: Indicates the code on the T1 span.

Possible values include AMI, B7ZS, and B8ZS.

E1: Indicates the code on the span. Possible values include AMI and HDB3. The return value (2) should be interpreted depending on the card type.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.16

Data Type

Integer. Possible values are as follows:

Value	T1 span code
1	ami
2	b8zs
3	b7zs
4	hdb3
255	unknownOrNa

Access Policy

Read-write

Status

Mandatory

iccleng

{iccEntry 17}

Description

Only valid when iccType is not nxE1. When iccType is nxE1, a get on this object will return 0; a set on this object will result in an error.

Indicates the line equalization used for the T1/MVDCT1 stream. Possible values include the line length between 0 to 133 feet, 133 to 266 feet, 266 to 399 feet, 399 to 533 feet, and 533 to 655 feet, FCC Part 68 Option A, ITU-T F.703.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.17

Data Type

Integer. Possible values are as follows:

Value	Line equalization
0	none
1	leng0-133
2	leng133-266
3	leng266-399
4	leng399-533
5	leng533-655
6	lengPT-68-A
7	lengG-703

Access Policy

Read-write

Status

Mandatory

iccCrc

{iccEntry 18}

Description

Only meaningful when iccType is any of the E1 types, i.e., nxE1, e1IsdnPriNet5, e1IsdnPriQsig, or e1IsdnPriTs014. When iccType is not of type E1, a get on this object will return 0; a set on this object will result in an error. Indicates if CRC checking is enabled. Possible values include ON or OFF.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.18

Data Type

Integer. Possible values are as follows:

Value	CRC checking status
0	none
1	crc-on
2	crc-off

Access Policy

Read-write

Status

Mandatory

iccTs0

{iccEntry 19}

Description

Only meaningful when iccType is of type nxE1. When iccType is not of type nxE1, a get on this object will return 0; a set on this object will result in an error.

Specifies international or national bits of Time Slot 0 as an 8-bit value with the format 'i1Annnnn' where

i = International bits

n = National bits

A = a remote alarm indicator (ITU-T default)

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.19

Data Type

Integer (0..'ff'h)

Access Policy

Read-write

Status

Mandatory

iccTs16

{iccEntry 20}

Description

Only meaningful when iccType is of type nxE1.

When iccType is not of type nxE1, a get on this object will return 0; a set on this object will result in an error.

Specifies extra bits and the C and D bits of Time Slot 16 as an 8-bit value with the format '0000xyxx' where

x = extra bits

y = a remote alarm indicator (ITU-T default). Use bits 3 and 4 (where bit 1 = leftmost bit) to specify the C and D bits.

For systems in China, the C and D bits must be set to 1.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.20

Data Type

Integer (0..'ff'h)

Access Policy

Read-write

Status

Mandatory

iccStatus

{iccEntry 21}

Description

Indicates the current status of the span.

Possible values and their meanings are listed in the following table:

Value	Meaning
active	Active (ports on this card can be involved in active calls and can be allocated to new calls) the agent may take up to 10 seconds to set a card to active.
maintenance	Maintenance (one or more ports on this card may be involved in active calls; no ports are allocated to new calls). the agent may take up to 10 seconds to set a card into maintenance.
diagnostics	Diagnostics (no ports on this card are involved in calls or allocated to new calls)

Value	Meaning
outOfService	Out of Service (no ports on this card can be involved in active calls; no ports are allocated to new calls)
payloadLoopback	Payload Loopback (diagnostic state)
remoteLoopback	Remote Loopback (diagnostic state)
gracefulIdle	Graceful Idle (no ports on this card are allocated to new calls)

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.18

Data Type

Integer. Possible values are as follows:

Value	Status
1	active
2	maintenance
3	diagnostics
4	outOfService
7	payloadLoopback
8	remoteLoopback
9	gracefullIdle

Access Policy

Read-write

Status

Mandatory

iccUnusedPorts

{iccEntry 22}

Description

Indicates the number of ports not currently active on this card; for multispan cards, indicates the number of ports not currently active on individual spans.

Valid only for network interface and internal service circuit ports.

For systems in China, the C and D bits must be set to 1.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.22

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccRevVer

{iccEntry 23}

Description

Indicates the version and the revision level of the firmware installed on the card. Object can be used to verify that firmware revisions for all network interface and service circuit cards are at the current level.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.23

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccPhyAdd

{iccEntry 24}

Description

The physical address of this span.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.24

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccNfasGrpIndex

{iccEntry 25}

Description

Only meaningful when iccType is any of the T1 types, i.e., nxT1, t1IsdnPriNi2, t1IsdnPri5Ess, t1IsdnPri4Ess, t1IsdnPriNti, or t1IsdnPriNtt. When iccType is not of type T1, a get on this object will return 0; a set on this object will result in an error.

A foreign key in the NFAS group table, indicates which NFAS group this span belongs to. In order to change this attribute, you need to set this EntryStatus and the one in the nfasGroupTable to underModification.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.25

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

iccNfasGrpPosition

{iccEntry 26}

Description

Only meaningful when iccType is any of the T1 types, i.e., nxT1, t1IsdnPriNi2, t1IsdnPri5Ess, t1IsdnPri4Ess, t1IsdnPriNti, or t1IsdnPriNtt. When iccType is not of type T1, a get on this object will return 0; a set on this object will result in an error.

Specifies the position of the span in the assigned nfas group.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.26

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccAlarm

{iccEntry 27}

Description

The value tracks which alarms are active on this span. Card alarms are internally represented as a bit map. There are 32 bits in all, a bit is set to 1 for each active alarm. The following is the representation:

Bit	Alarm Description
0	Card failure—minor
1	Port failure—minor
2	T1/E1/PRI carrier failure—major
3	T1/E1/PRI remote carrier failure—major
4	T1/E1/PRI card failure—major
5	T1/E1 Signaling Bit—minor
6	PRI Bipolar Violations MLimit reached
7	T1/E1/PRI Out of Frame MLimit reached—minor
8	T1/E1 Slip Maint Limit reached—minor
9	T1/E1/PRI OOF condition—minor
10	PRI D-channel failure—major
11-32	Unsigned filler (set to zero)

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

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.27

Data Type

Integer (0..7ff'h)

Access Policy

Read only

Status

Mandatory

iccErrorStatus

{iccEntry 28}

Description

Registers the last error that occurred on this span entry. For a complete list of errors, refer to the “Card Error Messages” section on page A-1.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.28

Data Type

Integer. Possible values are as follows:

Value	Error
4352	frameTypeInvalid
4353	codeInvalid
4354	txInvalid
4355	rxInvalid
4356	txClockInvalid
4357	refClockInvalid
4358	oofSlipInvalid
4359	lawInvalid
4360	spanLengthInvalid
4361	crcInvalid
4362	ts0Invalid
4363	ts16Invalid
4364	mustBeOos
4365	ni2NotInstalled
4366	priOnlyNotInstalled
4367	valueInvalid
4368	spanNotIsdnType
4369	spanNotIsdnT1Type
4370	spanNotIsdnE1Type
4371	spanNotIsdnOrT1Type
4372	spanNotT1Type
4373	spanNotE1Type
4374	spanNotNonIsdnType
4375	spanNotNonIsdnE1Type
4376	spanNotCompatibleIsdnType

Access Policy

Read only

Status

Mandatory

iccOwnerString

{iccEntry 29}

Description

The entity that configured this span entry and is therefore using the resources assigned to it.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.29

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

iccEntryStatus

{iccEntry 30}

Description

The status of this icc card entry. This object is used to add/delete an icc card span and to modify span attributes. The span needs to be set to valid once modifications are done.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.30

Data Type

EntryStatus

Access Policy

Read-write

Status

Mandatory

iccDwnldVersion

{iccEntry 31}

Description

Version/revision of the card download file.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.31

Data Type

DisplayString (size 1..4)

Access Policy

Read only

Status

Mandatory

iccUpgradeState

{iccEntry 32}

Description

The upgrade state of this trunk card entry.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.32

Data Type

UpgradeState

Access Policy

Read only

Status

Mandatory

icclsdnAccessType

{iccEntry 33}

Description

Only applicable when iccType is one of the ISDN span types. A get on this object for a non-ISDN span type will return 0. A set on this object for a non-ISDN span type will result in an error.

Determines the type of access connection used for this span. This object can only be changed when the span status is Out-of-Service. Possible values for this object and their meanings are listed below:

Value	Meaning
usrmd	User side implementation for the connection; valid for both T1 and E1 ISDN icc types (except e1IsdnPriQsig).
netmd	Network side implementation for the connection; valid only for t1IsdnPriNtt, e1IsdnPriNet5, and e1IsdnPriTs014 ISDN icc types.
symmd	User side symmetrical implementation for the connection (loop-back only); only valid for T1 ISDN icc types: t1IsdnPriNi2, t1IsdnPri5Ess, t1IsdnPri4Ess, and t1IsdnPriNti.
userA	One side of symmetrical inter-PINX link for the connection; only valid for E1 ISDN icc type: e1IsdnPriTs014.
userB	One side of symmetrical inter-PINX link for the connection; only valid for E1 ISDN icc type: e1IsdnPriTs014.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.33

Data Type

PriAccessMode

Access Policy

Read-write

Status

Mandatory

icclsdnCalnpulseRuleIndex

{iccEntry 34}

Description

Only applicable for ISDN span types. A get on this object for a non-ISDN span type will return 0. A set on this object for a non-ISDN span type will result in an error.

This is a foreign key corresponding to the `inpulseRuleIndex` in the `inpulseTable`. It is accessed while assigning a particular impulse rule to the span. Determines the impulse rule processed when a SETUP message is received over this span'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 NFAS is being used, an impulse rule is assigned only to the spans containing the primary and backup D-channels. The impulse rule chosen must have already been defined using either the Impulse Rule Table screens on the console, or by an entry in the `inpulseRuleTable`.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.34

Data Type

ImpulseRuleIndex

Access Policy

Read-write

Status

Mandatory

icclsdnNcalnpulseRuleIndex

{iccEntry 35}

Description

Only applicable for ISDN span types. A get on this object for a non-ISDN span type will return 0. A set on this object for a non-ISDN span type will result in an error.

This is a foreign key corresponding to the `inpulseRuleIndex` in the `inpulseTable`. It is accessed while assigning a particular impulse rule to the span.

Determines the impulse rule processed when a SETUP message is received over this span'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 NFAS is being used, an impulse rule is assigned only to the spans containing the Primary and Backup D-channels. The impulse rule chosen must have already been defined using either the Impulse Rule Table screens on the console, or by an entry in the `inpulseRuleTable`.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.35

Data Type

InpulseRuleIndex

Access Policy

Read-write

Status

Mandatory

icclsdnSwitchType

{iccEntry 36}

Description

Only applicable for ISDN span types. A get on this object for a non-ISDN span type will return 0. A set on this object for a non-ISDN span type will result in an error.

This is a foreign key corresponding to the `inpulseRuleIndex` in the `inpulseTable`. It is accessed while assigning a particular impulse rule to the span.

Determines the impulse rule processed when a SETUP message is received over this span'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 NFAS is being used, an impulse rule is assigned only to the spans containing the Primary and Backup D-channels. The impulse rule chosen must have already been defined using either the Impulse Rule Table screens on the console, or by an entry in the `inpulseRuleTable`.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.36

Data Type

PriSwitchType

Access Policy

Read-write

Status

Mandatory

icclsdnLaw

{iccEntry 37}

Description

Only applicable for ISDN span types. A get on this object for a non-ISDN span type will return 0. A set on this object for a non-ISDN span type will result in an error.

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

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.37

Data Type

LawType

Access Policy

Read-write

Status

Mandatory

icclsdnProtocolT200

{iccEntry 38}

Description

Acknowledgement Timer in seconds.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.38

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT201

{iccEntry 39}

Description

Minimum time between retransmission of the TEI Identity check messages in seconds.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.39

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT203

{iccEntry 40}

Description

Maximum time allowed without frames being exchanged in seconds.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.40

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iclsdnProtocolN200

{iccEntry 41}

Description

Maximum number of retransmissions.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.41

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iclsdnProtocolN201

{iccEntry 42}

Description

Maximum number of octets in an information field.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.42

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iclsdnProtocolWindowSize

{iccEntry 43}

Description

Window size.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.43

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT303

{iccEntry 44}

Description

Timer started on SETUP sent.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.44

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT305

{iccEntry 45}

Description

Timer started on DISC.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.45

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT308

{iccEntry 46}

Description

Timer started on REL sent.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.46

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT309

{iccEntry 47}

Description

Timer started on data link disconnection.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.47

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT310

{iccEntry 48}

Description

Timer started on CALL PROC received.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.48

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT313

{iccEntry 49}

Description

Timer started on CONN sent.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.49

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT315

{iccEntry 50}

Description

ISDN PRI layer 3 timer value.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.50

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT316

{iccEntry 51}

Description

Timer started on REST sent.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.51

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT321

{iccEntry 52}

Description

Timer started on D-channel failure.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.52

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolT3M1

{iccEntry 53}

Description

Timer started on SERV sent.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.53

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolTM01

{iccEntry 54}

Description

Isdn PRI layer 3 timer value.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.54

Data Type

Integer

Access Policy

Read only

Status

Mandatory

icclsdnProtocolNM01

{iccEntry 55}

Description

Isdn PRI layer 3 timer value.

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.55

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccTableLastModified

{iccEntry 56}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.12.1.1.56

Data Type

Integer

Access Policy

Read only

Status

Mandatory

ICC Port Table

Use the ICC 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 ICC card.

iccPortTable

{icc 4}

Description

A list of port entries on each icc card.

Object Identifier

1.3.6.1.4.1.886.1.12.4

Data Type

Sequence of IccPortEntry

Access Policy

Not accessible

Status

Mandatory

iccPortEntry

{iccPortTable 1}

Description

An table entry containing objects belonging to a particular port.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1

Data Type

IccPortEntry

Access Policy

Not accessible

Status

Mandatory

iccPortIndex

{iccPortEntry 1}

Description

Indicates the port number on the span.

For all the T1 Pri span types, port 24 is reserved for the D-channel. For the E1 span types, ports 1 and 17 are reserved.

Maximum number of ports and inaccessible ports for the various types of icc card span are shown below:

Card Span Type	Max # of Ports	Inaccessible Ports
nxT1	24	None
nxE1	32	1 & 17

Card Span Type	Max # of Ports	Inaccessible Ports
t1IsdnPriNi2	24	24
t1IsdnPri5Ess	24	24
t1IsdnPri4Ess	24	24
t1IsdnPriNti	24	24
t1IsdnPriNtt	24	24
e1IsdnPriNet5	32	1 & 17
e1IsdnPriQsig	32	1 & 17
e1IsdnPriTs014	32	1 & 17

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.1

Data Type

Integer (1...32)

Access Policy

Read only

Status

Mandatory

iccPortName

{iccPortEntry 2}

Description

Optional database entry used to identify individual circuits. When a port name is used, each one should be unique and descriptive of port usage. This object accepts up to 8 upper- or lowercase alphanumeric characters.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.2

Data Type

DisplayString (size 0...8)

Access Policy

Read-write

Status

Mandatory

iccPortSigType

{iccPortEntry 3}

Description

Determines the signaling type. Possible values include:

Value	Meaning
eAndm	E&M
fxo-ls	FXO Loop Start
fxo-gs	FXO Ground Start
fxs-ls	FXS Loop Start
fxs-gs	FXS Ground Start
clear	Clear Channel
ieAndm	Inverted E&M
userDefX	User Defined where: FXO = Foreign Exchange Office FXS = Foreign Exchange Subscriber



Note If you selected an SF_NR or ESF_NR span type, this object is ignored.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.3

Data Type

Integer. Possible values are as follows:

Value	String
1	eAndm
2	fxo-ls
3	fxo-gs
4	fxs-ls
5	fxs-gs
6	clear
7	ieAndm
8	userDef1
9	userDef2
10	userDef3
11	userDef4
12	userDef5
13	userDef6

Access Policy

Read-write

Status

Mandatory

iccPortCos

{iccPortEntry 4}

Description

Class of Service used for resource grouping and B-channel allocation; determines the software operating characteristics for this port. Different spans on the same card can have different COS marks. Possible values and their meanings are listed in the following table:

Value	Meaning
o	Originating—Calls originating from the VCO; outgoing calls initiated by host command
t	Terminating—Calls terminating at the VCO; incoming calls initiated by actions outside the SDS/VCO or forced by host command
w2	2-Way—Calls originating from the VCO or calls terminating at the SDS/VCO; outgoing calls initiated by host command, incoming calls initiated by outside actions
oa	Always Off Hook and Originating—Calls originating from the SDS/VCO, port goes off hook at VCO system reset and remains off hook; outgoing calls initiated by host command
ta	Always Off Hook and Terminating—Calls terminating at the SDS/VCO, port goes off hook at VCO system reset and remains off hook; incoming calls initiated by outside actions or forced by host command
a2	Always Off Hook and 2-Way—Calls originating from the SDS/VCO or calls terminating at the VCO, port goes off hook at SDS/VCO system reset and remains off hook; outgoing calls initiated by host command, incoming calls initiated by outside actions or forced by host command

**Note**

Internal COS values, i.e., U2 (2-way currently used as an outgoing) and T2 (2-way currently used as an incoming), may appear during system operation. These values are internal processing representations and cannot be assigned.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.4

Data Type

Integer. Possible values are as follows:

Value	String
0	none
1	o
2	t

Value	String
3	w2
4	oa
5	ta
6	a2

Access Policy

Read-write

Status

Mandatory

iccPortMajorState

{iccPortEntry 13}

Description

The major state of the port.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.13

Data Type

PortMajorState

Access Policy

Read only

Status

Mandatory

iccPortSuppState

{iccPortEntry 14}

Description

The supplementary state of the port.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.14

Data Type

PortSuppState

Access Policy

Read only

Status

Mandatory

iccPortAddress

{iccPortEntry 15}

Description

Specifies the software address (hexadecimal identifier) of the port for which data is displayed. The port can also be specified by the hardware address.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.15

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccPortImpulseRuleIndex

{iccPortEntry 16}

Description

This is a foreign key corresponding to the impulseRuleIndex in the impulseTable. It is accessed while assigning a particular impulse rule to a port. Determines the impulse rule processed when this port goes off hook. Default impulse rules are used for incoming ports only (Class of Service = T, W2, AT, or A2). The impulse rule must be defined from the Impulse Rules Table screens.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.16

Data Type

ImpulseRuleIndex

Access Policy

Read-write

Status

Mandatory

iccPortResGroupIndex

{iccPortEntry 17}

Description

Indicates the number of the resource group to which this port belongs. In order to change this attribute, you need to set this EntryStatus and the one in the resGroupTable to underModification.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.17

Data Type

ResGroupIndex

Access Policy

Read-write

Status

Mandatory

iccPortResGroupPosition

{iccPortEntry 18}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.18

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iccPortErrorStatus

{iccPortEntry 19}

Description

Registers the last error that occurred on this port entry.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.19

Data Type

Integer (invalidValue = 6656)

Access Policy

Read only

Status

Mandatory

iccPortOwnerString

{iccPortEntry 20}

Description

The entity that configured this entry and is therefore using the resources assigned to it.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.20

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

iccPortEntryStatus

{iccPortEntry 21}

Description

The status of this table entry.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.21

Data Type

PortEntryStatus

Access Policy

Read-write

Status

Mandatory

iccPortState

{iccPortEntry 22}

Description

The state of port can be changed to active or inactive. 1= active; 2 = inactive.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.22

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

iccPortCardType

{iccPortEntry 23}

Description

Specifies the type of icc card to which this port belongs. Same as iccType.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.23

Data Type

Integer. Possible values are as follows:

Value	String
1	nxT1
2	nxE1
3	t1IsdnPriNi2
4	t1IsdnPri5Ess
5	t1IsdnPri4Ess
6	t1IsdnPriNti
7	t1IsdnPriNtt
8	e1IsdnPriNet5
9	e1IsdnPriQsig
10	e1IsdnPriTs014

Access Policy

Read only

Status

Mandatory

iccPortLaw

{iccPortEntry 24}

Description

Only valid when iccPortCardType is one of the non-ISDN types, i.e., nxT1 or nxE1. When iccPortCardType is one of the ISDN flavors, a get on this object will return 0 and a set on this object will result in an error.

Indicates the voice coding on the stream. The system automatically turns off translation when calls specify unrestricted digital information bearer capability.

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.24

Data Type

Integer. Possible values are as follows:

Value	String
1	a
2	mu
3	system

Access Policy

Read-write

Status

Mandatory

iccPortIsdnState

{iccPortEntry 25}

Description

Only valid when `iccPortCardType` is one of the ISDN types. When `iccPortCardType` is not one of the ISDN flavors, a get on this object will return 0 and a set on this object will result in an error.

Specifies the ISDN port state.

Possible values are as follows:

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

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.25

Data Type

Integer. Possible values are as follows:

Value	String
1	in-serv
2	oos-ne
3	oos-fe
4	maint-ne
5	maint-fe

Access Policy

Read only

Status

Mandatory

iccPortIsdnCallState

{iccPortEntry 26}

Description

Only valid when iccPortCardType is one of the ISDN types. When iccPortCardType is not one of the ISDN flavors, a get on this object will return 0 and a set on this object will result in an error.

This specifies the isdn-call state of the call on the port. The description of each call state is as follows:

Value	User-side call state
idle	NULL state (U0/Rest 0)
o-initd	Call Initiated (U1)
i-overlap OR o-overlap	Overlap Sending (U2)—Reserved for future use
o-proceed	Outgoing Call Proceeding (U3)
o-delivrd	Call Delivered (U4)
i-callprs	Call Present (U6)
i-receivd	Call Received (U7)
i-connect	Connect Request (U8)
i-proceed	Incoming Call Proceeding (U9)
i-active OR o-active	Active (U10)
disc-req	Disconnect Request (U11)
disc-ind	Disconnect Indication (U12)
disc-rls	Release Request (U19)"

Object Identifier

1.3.6.1.4.1.886.1.12.4.1.26

Data Type

Integer. Possible values are as follows:

Value	String
0	unknown
1	idle
2	o-initd
3	o-overlap
4	o-proceed
5	o-active
6	o-delivrd
7	i-callprs
8	i-overlap
9	i-proceed
10	i-active
11	i-receivd
12	i-connect
13	disc-ind
14	disc-req
15	disc-rls

Access Policy

Read only

Status

Mandatory

iccPortTableLastModified

{icc 5}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.12.5

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

