

Single-Span Service Circuit Card Group

The service cards include digitized voice cards (DVCs), digital tone generator cards (DTGs), Digital conference cards (DCCs), integrated prompt/record cards (IPRCs), call progress analyzer cards (CPAs), Drop & Insert (D & I) cards, and pooled receiver cards.


Note

Some service circuit cards have country-specific firmware. For a list of the firmware required for each country, refer to the Generic Software Release Notes.

Digital Tone Generator (DTG) Card Configuration Table

The Digital Tone Generator (DTG) card is a mezzanine card for the NBC. The DTG can coexist with the DTG-2 card to enable redundant tone generation in a nonredundant system. The two cards exist in a modified n+1 redundant system allowing the two cards to be present in the system database. However, only one of the DTG or DTG-2 cards can be active and generating tones at any one time.

The NBC supports only one DTG mezzanine card. Therefore the maximum number of DTG cards in a nonredundant system is one and the maximum number in a redundant system is two.

dtgCardTable

{ scc 1 }

Description

The digital tone generator card configuration table.

Object Identifier

1.3.6.1.4.1.886.1.7.1

Data Type

Sequence of DtgCardEntry

Access Policy

Not accessible

Status

Mandatory

dtgCardEntry

{ dtgCardTable 1 }

Description

An entry in the dtgCard configuration table.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1

Data Type

DtgCardEntry

Access Policy

Not accessible

Status

Mandatory

Index

{ dtgIndex }

DtgCardEntry

Sequence

dtgIndex	Integer
dtgRack	Integer
dtgLevel	Integer
dtgSlot	Integer
dtgCardStatus	Integer
dtgCardUnusedPorts	Integer
dtgCardType	Integer
dtgCardRevVer	DisplayString
dtgCardPhyAdd	Integer
dtgCardAlarm	Integer
dtgCardErrorStatus	Integer
dtgCardOwnerString	OwnerString
dtgCardEntry Status	Entry Status

dtgIndex

{dtgCardEntry 1}

Description

Identifies an object in the DTG card table. This object identifies the physical location (hardware address) of the card and is a function of the rack (R), the level (L), and the slot (S) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.1

Data Type

CardIndex

Access Policy

Read only

Status

Mandatory

dtgRack

{dtgCardEntry 2}

Description

The rack (R) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.2

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgLevel

{dtgCardEntry 3}

Description

The level (L) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.3

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgSlot

{ dtgCardEntry 4 }

Description

The slot (S) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.4

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgCardStatus

{ dtgCardEntry 5 }

Description

Indicates the current status of the card.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.5

Data Type

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

Value	String	Meaning
1	active	Ports on this card can be involved in active calls and can be allocated to new calls.
4	outOfService	No ports on this card can be involved in active calls. No ports are allocated to new calls.
5	standby	Valid for one of the two NBC cards in redundant systems only. Also valid for one or more DTG cards in either a redundant or nonredundant system or BRCs.

Access Policy

Read-write

Status

Mandatory

dtgCardUnusedPorts

{dtgCardEntry 6}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.6

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgCardType

{dtgCardEntry 7}

Description

Indicates the type of card. In this object the card type is a digital tone generator (DTG) card (this value is always 5).

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.7

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgCardRevVer

{dtgCardEntry 8}

Description

Identifies the version and the revision level numbers for the firmware installed on this card. Use these numbers to verify the firmware revisions for all network interface cards are at the current level.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.8

Data Type

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

Access Policy

Read only

Status

Mandatory

dtgCardPhyAdd

{dtgCardEntry 9}

Description

The physical address of the card. The address is assigned by the VCO system. You cannot assign or modify this address.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.9

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgCardAlarm

{dtgCardEntry 10}

Description

Tracks the active alarms on this card.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.10

Data Type

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

Value	String
1	cardFailureMinor
2	portFailureMinor
3	cardAndPortFailureMinor

Access Policy

Read only

Status

Mandatory

dtgCardErrorStatus

{dtgCardEntry 11}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.11

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgCardOwnerString

{dtgCardEntry 12}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.12

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

dtgCardEntry Status

{dtgCardEntry 13}

Description

The status of this DTG card entry.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.13

Data Type

Entry Status

Access Policy

Read-write

Status

Mandatory

dtgCardDwnldVersion

{ dtgCardEntry 14 }

Description

Version/revision of the card download file.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.14

Data Type

DisplayString (SIZE (1..4))

Access Policy

Read only

Status

Mandatory

dtgCardUpgradeState

{ dtgCardEntry 15 }

Description

The upgrade state of this DTG card entry.

Object Identifier

1.3.6.1.4.1.886.1.7.1.1.15

Data Type

UpgradeState

Access Policy

Read only

Status

Mandatory

dtgCardTableLast Modified

{ scc 2 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.2

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

Digital Tone Generator (DTG) Port Table

The DTG port table enables you to assign a name, a hardware type, a default impulse rule, and a class of service (COS) to individual ports on a DTG card.

dtgPortTable

{scc 4}

Description

A list of port entries on each DTG card.

Object Identifier

1.3.6.1.4.1.886.1.7.4

Data Type

Sequence of DtgPortEntry

Access Policy

Not accessible

Status

Mandatory

dtgPortEntry

{dtgPortTable 1}

Description

An entry containing objects belonging to a particular port.

Object Identifier

1.3.6.1.4.1.886.1.7.4.1

Data Type

DtgPortEntry

Access Policy

Not accessible

Status

Mandatory

Index

{ dtgIndex, dtgPortIndex }

DtgPortEntry

Sequence

dtgPortIndex	Integer
dtgPortState	Integer
dtgPortMajorState	PortMajorState
dtgPortSuppState	PortSuppState
dtgPortAddress	Integer
dtgPortErrorStatus	Integer
dtgPortOwnerString	OwnerString
dtgPortEntry Status	PortEntry Status

dtgPortIndex

{ dtgPortEntry 1 }

Description

Indicates the port number on the card.

Object Identifier

1.3.6.1.4.1.886.1.7.4.1.1

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgPortState

{ dtgPortEntry 2 }

Description

Indicates 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

1.3.6.1.4.1.886.1.7.4.1.2

Data Type

Integer. The two values are 1 (active) and 2 (inactive).

Access Policy

Read-write

Status

Mandatory

dtgPortMajorState

{dtgPortEntry 3}

Description

The major state of the port.

Object Identifier

1.3.6.1.4.1.886.1.7.4.1.3

Data Type

PortMajorState

Access Policy

Read only

Status

Mandatory

dtgPortSuppState

{dtgPortEntry 4}

Description

The supplementary state of the port.

Object Identifier

1.3.6.1.4.1.886.1.7.4.1.4

Data Type

PortSuppState

Access Policy

Read only

Status

Mandatory

dtgPortAddress

{ dtgPortEntry 5 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.4.1.5

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgPortErrorStatus

{ dtgPortEntry 6 }

Description

Registers the last error that occurred on this port.

Object Identifier

1.3.6.1.4.1.886.1.7.4.1.6

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dtgPortOwnerString

{ dtgPortEntry 7 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.4.1.7

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

dtgPortEntryStatus

{dtgPortEntry 8}

Description

The status of this table entry.

Object Identifier

1.3.6.1.4.1.886.1.7.4.1.8

Data Type

PortEntry Status

Access Policy

Read-write

Status

Mandatory

dtgPortTableLastModified

{scc 5}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.5

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

Resourcible Card (RC) Table

The Resourcible Card is a composite of the following service circuit cards:

- IPRC, IPRC8, IPRC128
- CNF
- SRC
- CPA

- DTMF, DTMF24, DTMF48
- MFRC, MFRC2
- ANNC

rcTable

{scc 6}

Description

The resourcible card (rc) configuration table.

Object Identifier

1.3.6.1.4.1.886.1.7.6

Data Type

Sequence of RcEntry

Access Policy

Not accessible

Status

Mandatory

rcEntry

{rcTable 1}

Description

An entry in the RC table.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1

Data Type

RcEntry

Access Policy

Not accessible

Status

Mandatory

Index

{rcIndex, rcType}

RcEntry

Sequence

rcIndex	CardIndex
rcRack	Integer
rcLevel	Integer
rcSlot	Integer
rcStatus	Integer
rcUnusedPorts	Integer
rcType	Integer
rcRevVer	DisplayString
rcPhyAdd	Integer
rcAlarm	Integer
rcErrorStatus	Integer
rcOwnerString	OwnerString
rcEntryStatus	EntryStatus

rcIndex

{rcEntry 1}

Description

Identifies an object in the resourcible card table. The object contains the physical location (hardware address) of the card. The index object lists the rack (R), the level (L), and the slot (S) that the card occupies. The rcIndex is the primary index into the resourcible card configuration table (rcTable).

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.1

Data Type

CardIndex

Access Policy

Read only

Status

Mandatory

rcRack

{rcEntry 2}

Description

The rack (R) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.2

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcLevel

{rcEntry 3}

Description

The level (L) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.3

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcSlot

{rcEntry 4}

Description

The slot (S) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.4

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcStatus

{rcEntry 5}

Description

The current status of the card.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.5

Data Type

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

Value	String	Meaning
1	active	Ports on this card can be involved in active calls and can be allocated to new calls.
2	maintenance	One or more ports on this card may 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.
5	standby	Valid for one of the two NBC cards in redundant systems only. Also valid for one or more DTG cards in either a redundant or nonredundant system or BRCs.
6	campedOn	Status change to diagnostics mode was attempted while ports on this card were still involved in calls. No ports are allocated to new calls and card remains in this mode until further administrator action.
7	payload Loopback	Diagnostic state.
8	remote Loopback	Diagnostic state.

Access Policy

Read-write

Status

Mandatory

rcUnusedPorts

{rcEntry 6}

Description

The number of ports not currently active on this card. For multispan cards the object contains the number of ports not currently active on individual spans. Valid only for network interface and internal service circuit ports.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.6

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcType

{rcEntry 7}

Description

Specifies the type of resourcible card.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.7

Data Type

Integer. the following table contains the valid numerical and string card types.

Value	String
1	iprc
2	iprc8
3	iprc128
4	cnf
5	src
6	cpa
7	dtmf
8	dtmf24
9	dtmf48
10	mfrc
11	mfrc2
12	annc

Access Policy

Read only

Status

Mandatory

rcRevVer

{rcEntry 8}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.8

Data Type

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

Access Policy

Read only

Status

Mandatory

rcPhyAdd

{rcEntry 9}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.9

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcAlarm

{rcEntry 10}

Description

Tracks the active alarms on this card.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.10

Data Type

Integer. The following table lists the valid values and their meanings:

Value	String
1	cardFailureMinor
2	portFailureMinor
3	cardAndPortFailureMinor

Access Policy

Read only

Status

Mandatory

rcErrorStatus

{rcEntry 11}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.11

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcOwnerString

{rcEntry 12}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.12

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

rcEntryStatus

{rcEntry 13}

Description

The status of this resourcible card object.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.13

Data Type

EntryStatus

Access Policy

Read-write

Status

Mandatory

rcDwnldVersion

{rcEntry 14}

Description

Version/revision of the card download file.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.14

Data Type

DisplayString (size 1...4)

Access Policy

Read only

Status

Mandatory

rcUpgradeState

{rcEntry 15}

Description

The upgrade state of this resourcible card entry.

Object Identifier

1.3.6.1.4.1.886.1.7.6.1.15

Data Type

UpgradeState

Access Policy

Read only

Status

Mandatory

rcTableLastModified

{ scc 7 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.7

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

Resourcible Port (RC) Table

The resourcible port configuration enables you to assign a name, a hardware type, a default impulse rule, and a class of service (COS) to individual ports on a resourcible card.

rcPortTable

{ scc 9 }

Description

A list of port entries on each resourcible card.

Object Identifier

1.3.6.1.4.1.886.1.7.9

Data Type

Sequence of RcPortEntry

Access Policy

Not accessible

Status

Mandatory

rcPortEntry

{rcPortTable 1}

Description

An entry containing objects belonging to a particular port.

Object Identifier

1.3.6.1.4.1.886.1.7.9.1

Data Type

RcPortEntry

Access Policy

Not accessible

Status

Mandatory

Index

{rcIndex, rcPortIndex}

RcPortEntry

Sequence

rcPortIndex	Integer
rcPortState	Integer
rcPCardType	Integer
rcPortMajorState	PortMajorState
rcPortSuppState	PortSuppState
rcPortAddress	Integer
rcResGroupIndex	Integer
reResGroupPosition	Integer
rcPortErrorStatus	Integer
rcPortOwnerString	OwnerString
rcPortEntry Status	PortEntry Status

rcPortIndex

{rcPortEntry 1}

Description

Indicates the port number on the card (the primary index into this table).

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.1

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcPortState

{rcPortEntry 2}

Description

Indicates the state of the port; 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

1.3.6.1.4.1.886.1.7.9.1.2

Data Type

Integer. The two values are 1 (active) and 2 (inactive). Perform the state changes one at a time.

Access Policy

Read-write

Status

Mandatory

rcPCardType

{rcPortEntry 3}

Description

Indicates the type of resourcible card to which this port is attached.

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.3

Data Type

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

Value	String
1	iprc
2	iprc8
3	iprc128
4	cnf
5	src
6	cpa
7	dtmf
8	dtmf24
9	dtmf48
10	mfrc
11	mfrc2
12	annc

Access Policy

Read only

Status

Mandatory

rcPortMajorState

{rcPortEntry 4}

Description

The major state of the port.

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.4

Data Type

PortMajorState

Access Policy

Read only

Status

Mandatory

rcPortSuppState

{rcPortEntry 5}

Description

The supplementary state of the port.

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.5

Data Type

PortSuppState

Access Policy

Read only

Status

Mandatory

rcPortAddress

{rcPortEntry 6}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.6

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcResGroupIndex

{rcPortEntry 7}

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 make a resource group assignment, the value is zero (0).

Set the EntryStatus for this attribute and in the resGroupTable to underModification to change this attribute.

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.7

Data Type

Integer. Possible values are from 0 to 63.

Access Policy

Read-write

Status

Mandatory

rcResGroupPosition

{rcPortEntry 8}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.8

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcPortErrorStatus

{rcPortEntry 9}

Description

Registers the last error that occurred on this port.

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.9

Data Type

Integer

Access Policy

Read only

Status

Mandatory

rcPortOwnerString

{rcPortEntry 10}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.10

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

rcPortEntry Status

{rcPortEntry 11}

Description

The status of this table object.

Object Identifier

1.3.6.1.4.1.886.1.7.9.1.11

Data Type

PortEntry Status

Access Policy

Read-write

Status

Mandatory

rcPortTableLastModified

{scc 10}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.10

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

IPRC Card Configuration Table

The Integrated Prompt/Record Card (IPRC) is a standard system service circuit card that resides in the Master or any Expansion Port Subrack. It is designed for the system switching product family to play and record digitized voice prompt information.

The number and type of IPRCs required by a system is based on anticipated traffic and the call scenario. IPRCs are microprocessor-based and firmware controlled, and are incorporated with the standard system internal control and digital network interfaces.

Use the objects in the IPRC Card Configuration Table to define the IPRC configuration parameters. Use these objects to specify the following items:

- Length of time after which to chop the end of a newly recorded prompt
- Interval timer for checksum verification
- Prompt libraries supported by the IPRC card

In addition, the IPRC table contains objects that enable you to configure the port density in 8-port increments, thus reallocating time slots based on the defined port density. You can configure the 64- and 128-port IPRCs to support less than the physical port capacity.

**Note**

Due to the potential reallocation of time slots and removal of prompt information loaded on the IPRC, you must remove the IPRC from service prior to making any changes to these objects.

iprcTable

{scc 11}

Description

IPRC card table.

Object Identifier

1.3.6.1.4.1.886.1.7.11

Data Type

Sequence of IprcEntry

Access Policy

Not accessible

Status

Mandatory

IprcEntry

{iprcTable 1}

Description

An entry in the iprc card table.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1

Data Type

IprcEntry

Access Policy

Not accessible

Status

Mandatory

Index

{iprcIndex}

IprcEntry

Sequence

iprcIndex	CardIndex
iprcRack	Integer
iprcLevel	Integer
iprcSlot	Integer
iprcPcmLimit	Integer
iprcPlaybackPorts	Integer
iprcRecChannels	Integer
iprcEORecChop	Integer
iprcChecksumSw	Integer
iprcChecksumTimer	Integer
iprcAlloPrompt	Integer
iprcAvaPrompt	Integer
iprcSupportPromptLib	Integer

iprcErrorStatus	Integer
iprcOwnerString	OwnerString
iprcEntry Status	Entry Status

iprcIndex

{iprcEntry 1}

Description

Identifies an object in the iprc table. The object contains the physical location (hardware address) of the card. The index object lists the rack (R), the level (L), and the slot (S) that the card occupies.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.1

Data Type

CardIndex

Access Policy

Read only

Status

Mandatory

iprcRack

{iprcEntry 2}

Description

The rack (R) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.2

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iprcLevel

{iprcEntry 3}

Description

The level (L) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.3

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iprcSlot

{iprcEntry 4}

Description

The slot (S) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.4

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iprcPcmLimit

{iprcEntry 5}

Description

Use this field to set a maximum value for PCM cutoff (limits the level of the prompts). The software on the IPRC clips any PCM value that is less than the defined limit.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.5

Data Type

Integer. The valid range is from 0 to 127; where 0 is the loudest volume and 127 is the softest. The suggested value for Mu law prompt data is 10.

Access Policy

Read-write

Status

Mandatory

iprcPlaybackPorts

{iprcEntry 6}

Description

Use this object to define the number of playback ports supported by the IPRC. The number of playback ports is allocated in increments of 8 ports up to the physical limit of ports supported by the IPRC. This field enables you to free up time slots if all ports on an IPRC are not required.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.6

Data Type

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

Value	String	Meaning
8	iprc8	Integrated prompt recording card – 8 port.
64	iprc64	Integrated prompt recording card – 64 ports.
128	iprc128	Integrated prompt recording card – 128 ports.

Access Policy

Read-write

Status

Mandatory

Default Value

Maximum of the physical capacity of the IPRC board: 8, 64, or 128. All values must be in increments of 8 (for example, 8, 16, 24).

iprcRecChannels

{iprcEntry 7}

Description

Shows the number of record channels supported by the IPRC card. This number is controlled by the physical port configuration. There is no additional overhead introduced by the number of record channels, so they do not need to be configured.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.7

Data Type

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

Value	String	Meaning
8	iprc8	Integrated prompt recording card – 8 port.
64	iprc64	Integrated prompt recording card – 64 ports.
128	iprc128	Integrated prompt recording card – 128 ports.

Access Policy

Read only

Status

Mandatory

iprcEORecChop

{iprcEntry 8}

Description

The end of record chop parameter defines how much of a prompt is cut from the end of a newly recorded prompt.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.8

Data Type

Integer. The valid range is from 0 to 999. Range is in tenths of a second (0 to 99.9 seconds).

Access Policy

Read-write

Status

Mandatory

Default Value

0.1 second (the value 1)

iprcChecksumSw

{iprcEntry 9}

Description

This field enables (1) or disables (2) the interval timer.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.9

Data Type

Integer. The two values are 1 (enable) and 2 (disable).

Access Policy

Read-write

Status

Mandatory

Default Value

{2} disable

iprcChecksumTimer

{iprcEntry 10}

Description

There are two objects associated with the checksum timer. Use these two objects to define the periodic interval for the IPRC to verify the integrity of the prompt information loaded on the IPRC.

The first field enables or disables the interval timer. The second field is a data entry field that accepts an input range of 0 to 24. An interval time of zero causes immediate verification of the checksum.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.10

Data Type

Integer (0 to 24 hours)

Access Policy

Read-write

Status

Mandatory

Default Value

Disabled and 24

iprcAlloPrompt

{iprcEntry 11}

Description

Indicates the amount of prompt capacity defined for this IPRC. This figure represents the total prompting minutes used by the prompt libraries assigned to this IPRC.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.11

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iprcAvaPrompt

{iprcEntry 12}

Description

Displays the remaining prompt capacity for this IPRC. This figure represents the total prompting minutes available for recording or for additional library assignment.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.12

Data Type

Integer

Access Policy

Read only

Status

Mandatory

iprcSupportPromptLib

{iprcEntry 13}

Description

Indicates the supported prompt libraries for an IPRC (voice prompt) card. Each card can support up to 16 prompt libraries.

Internally an integer of 16 bits serves as the bit map to represent the supported libraries. Each bit corresponds to one library.

Externally the SNMP uses the integer values to perform a SET or GET command.

For further information on prompt libraries, see the *Cisco VCO/4K System Administrator's Guide*.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.13

Data Type

Integer. The valid values are from 0 (no library supported) to 65535 (all 16 libraries supported).

Access Policy

Read-write

Status

Mandatory

iprcErrorStatus

{iprcEntry 14}

Description

Registers the last error that occurred on this card.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.14

Data Type

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

Value	String
6144	invalidvaluespecified
6145	playbackportmustbeinmultiplesofeight
6146	playbackportsarestillinresgroup
6147	cardmustbeinoostomodifytheobject

Access Policy

Read only

Status

Mandatory

iprcOwnerString

{iprcEntry 15}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.15

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

iprcEntryStatus

{iprcEntry 16}

Description

The status of the IPRC object.

Object Identifier

1.3.6.1.4.1.886.1.7.11.1.16

Data Type

EntryStatus

Access Policy

Read-write

Status

Mandatory

iprcTableLastModified

{ scc 12 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.12

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

Prompt Library Table

The prompt library table contains a list of the entries used to assign prompt libraries to the IPRC.

pmptLibTable

{ scc 14 }

Description

Contains objects used to assign prompt libraries to the IPRC.

Object Identifier

1.3.6.1.4.1.886.1.7.14

Data Type

Sequence of PmptLibEntry

Access Policy

Not accessible

Status

Mandatory

pmptLibEntry

{ pmptLibTable 1 }

Description

Each prompt library entry consists of two objects. The numeric entry field and the name of the prompt library.

Object Identifier

1.3.6.1.4.1.886.1.7.14.1

Data Type

PmptLibEntry

Access Policy

Not accessible

Status

Mandatory

Index

{pmptLibIndex }

PmptLibEntry

Sequence

pmptLibIndex	Integer
pmptLibName	DisplayString
pmptLibPath	DisplayString
pmptLibTotalUsage	Integer
pmptLibUpdate	DisplayString
pmptLibCard	Integer
pmptLibPort	Integer
pmptErrorStatus	Integer
pmptLibOwnerString	OwnerString
pmptLibEntry Status	Entry Status

pmptLibIndex

{pmptLibEntry 1 }

Description

Specifies the library. You can assign up to sixteen prompt libraries to an IPRC.

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.1

Data Type

Integer. The possible values for this field are from 1 to 16.

Access Policy

Read only

Status

Mandatory

pmptLibName

{pmptLibEntry 2}

Description

The name of the prompt library if one has been defined.

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.2

Data Type

DisplayString. Length of the DisplayString is from 1 to 10 alphanumeric characters.

Access Policy

Read only

Status

Mandatory

pmptLibPath

{pmptLibEntry 3}

Description

Used to assign a default device and directory to the prompt library. The directory specification must include a device identifier (for example, C: or F:) and a directory path (for example, /boot/voice0).

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.3

Data Type

DisplayString. Length of the DisplayString is from 1 to 60 alphanumeric characters.

Access Policy

Read-write

Status

Mandatory

pmptLibTotalUsage

{pmptLibEntry 4}

Description

Returns the total usage of all the prompts in the library (Ticks).

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.4

Data Type

Integer

Access Policy

Read only

Status

Mandatory

pmptLibUpdate

{pmptLibEntry 5}

Description

Updates the prompt library by downloading all the prompts on all the supported IPRC cards.

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.5

Data Type

DisplayString

Access Policy

Read-write

Status

Mandatory

pmptLibCard

{pmptLibEntry 6}

Description

This object is used to specify a line or trunk card to play a list of voice prompts as a part of the test announcement. The line/trunk port (specified by pmptLib port) used for testing needs to be deactivated before it can be used for prompt testing using pmptTestFile object in the pmptFileTable.

pmptTestFile is in the prompt library file table (see the “Prompt Library File Table” section on page 8-44).

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.6

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

pmptLibPort

{pmptLibEntry 7}

Description

This object is used to specify a line or trunk card to play a list of voice prompts as a part of the test announcement. The line/trunk port (specified by pmptLib port) used for testing needs to be deactivated before it can be used for prompt testing using pmptTestFile object in the pmptFileTable.

pmptTestFile is in the prompt library file table (see the “Prompt Library File Table” section on page 8-44).

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.7

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

pmptLibErrorStatus

{pmptLibEntry 8}

Description

Registers the last error that occurred on this card.

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.8

Data Type

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

Value	String
2816	invalidLibIdSpecified
2817	libraryAlreadyExists
2818	cannotOpenLibraryDirectory
2819	invalidPromptFileIndexSpecified
2820	promptFileIsDeleted
2821	invalidPromptFileNamSpecified
2822	invalidCardSpecified
2823	invalidPortSpecified
2824	emptyCardSlotSpecified
2825	specifiedCardIsNotActive

Value	String
2826	specifiedPortNotActive
2817	cardIsNotSpecified

Access Policy

Read only

Status

Mandatory

pmptLibOwnerString

{pmptLibEntry 9}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.9

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

pmptLibEntryStatus

{pmptLibEntry 10}

Description

Status of the IPRC prompt library entry. This object is used for locking and unlocking of both the pmptLibTable and the pmptFileTable entries while modifying and editing the table entries. This object is also used for operations on the prompt files like add, delete, update, and test in the pmptFileTable.

Object Identifier

1.3.6.1.4.1.886.1.7.14.1.10

Data Type

Entry Status

Access Policy

Read-write

Status

Mandatory

pmptLibTableLastModified

{scc 15}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.15

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

Prompt Library File Table

The prompt library file table enables the user to configure the files for the prompt library table.

pmptFileTable

{scc 17}

Description

Contains a list of the files in a prompt library.

Object Identifier

1.3.6.1.4.1.886.1.7.17

Data Type

Sequence of PmptFileEntry

Access Policy

Not accessible

Status

Mandatory

pmptFileEntry

{pmptFileTable 1}

Description

Each prompt library consists of two fields; the number entry field and the name of the prompt library.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1

Data Type

PmptFileEntry

Access Policy

Not accessible

Status

Mandatory

Index

{pmptLibIndex, pmptFileIndex }

PmptFileEntry

Sequence

pmptFileIndex	Integer
pmptFileId	Integer
pmptFileName	DisplayString
pmptFileVersion	Integer
pmptFileDescription	DisplayString
pmptFileLaw	Integer
pmptFileLength	Integer
pmptAddFile	DisplayString
pmptDeleteFile	DisplayString
pmptUpdateFile	DisplayString
pmptTestFile	Integer

pmptFileIndex

{pmptFileEntry 1 }

Description

Displays the index of the prompt library file.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.1

Data Type

Integer

Access Policy

Read only

Status

Mandatory

pmptFileId

{pmptFileEntry 2}

Description

Specifies the file ID. Valid IDs are 1 to 255.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.2

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

pmptFileName

{pmptFileEntry 3}

Description

Specifies the file name.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.3

Data Type

DisplayString. Length of the DisplayString is from 1 to 16 alphanumeric characters.

Access Policy

Read only

Status

Mandatory

pmptFileVersion

{pmptFileEntry 4}

Description

Specifies the prompt file version number.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.4

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

pmptFileDescription

{pmptFileEntry 5}

Description

Specifies the prompt entry description.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.5

Data Type

DisplayString. Length of the DisplayString is from 1 to 32 alphanumeric characters.

Access Policy

Read-write

Status

Mandatory

pmptFileLaw

{pmptFileEntry 6}

Description

Specifies the file encoding law.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.6

Data Type

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

Value	String	Meaning
1	Mu	The file law is Mu law.
2	a	The file law is A law.

Access Policy

Read-write

Status

Mandatory

pmptFileLength

{pmptFileEntry 7}

Description

Specifies the duration in Ticks, hundredths of a second, for the prompt entry.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.7

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

pmptAddFile

{pmptFileEntry 8}

Description

Adds a specified file to the prompt library. The library to which the file is added must be locked with the pmptLibEntryStatus set to valid to add a file.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.8

Data Type

DisplayString. Length of the DisplayString is from 1 to 16 alphanumeric characters.

Access Policy

Read-write

Status

Mandatory

pmptDeleteFile

{pmptFileEntry 9}

Description

Deletes a specified file from the library. The library from which the file is deleted must be locked with the pmptLibEntryStatus set to valid to delete a file.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.9

Data Type

DisplayString. Length of the DisplayString is from 1 to 16 alphanumeric characters.

Access Policy

Read-write

Status

Mandatory

pmptUpdateFile

{pmptFileEntry 10}

Description

Updates the prompt library file to the supported IPRC cards. The library in which the file is updated must be locked with the pmptLibEntryStatus set to valid to update a file.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.10

Data Type

DisplayString. Length of the DisplayString is from 1 to 16 alphanumeric characters.

Access Policy

Read-write

Status

Mandatory

pmptTestFile

{pmptFileEntry 11}

Description

Plays the prompt file. The pmptLibcard and pmptLibPort must be set before you modify this object. Make sure the library where the file is updated is locked, with the pmptLibEntryStatus set to underModification, before you perform the test operation.

Object Identifier

1.3.6.1.4.1.886.1.7.17.1.11

Data Type

Integer. The two values are 1 (test) and 2 (notest).

Access Policy

Read-write

Status

Mandatory

pmptFileTableLastModified

{ scc 18 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.18

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

Subrate Switching Card Group

The Subrate Switching Card (SSC) enables the system to switch voice and data calls at $N \times 8$ Kbps rates (where N equals the number of channels). Use the SSC to improve trunk efficiency up to eight times by “packing” eight subrate channels within a traditional 64-Kbps channel. With the SSC you can use the switches as Base Station Controllers (BSCs) in wireless telephone networks or other networks carrying compressed audio.

Subrate Switching Card (SSC) Table

Use the Subrate Switching Card table to add, delete, or modify Subrate Switching Cards.

sscTable

{ ssc 19 }

Description

The Subrate Switching Card (SSC) configuration table.

Object Identifier

1.3.6.1.4.1.886.1.7.19

Data Type

SEQUENCE OF SscEntry

Access Policy

Not accessible

Status

Mandatory

sscEntry

{ sscTable 1 }

Description

An entry in the SSC table.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1

Data Type

SscEntry

Access Policy

Not accessible

Status

Mandatory

SscEntry

Sequence

sscIndex	CardIndex
sscRack	Integer
sscLevel	Integer
sscSlot	Integer
sscStatus	Integer
sscRevVer	DisplayString
sscPhyAdd	Integer
sscAlarm	Integer
sscErrorStatus	Integer
sscOwnerString	DisplayString
sscEntryStatus	EntryStatus

sscIndex

{ sscEntry 1 }

Description

Identifies an entry in the SSC Table. It corresponds to the physical location of the card and is a function of the rack (R), level (L), and slot (S) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.1

Data Type

CardIndex

Access Policy

Read only

Status

Mandatory

sscRack

{ sscEntry 2 }

Description

The rack (R) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.2

Data Type

Integer

Access Policy

Read only

Status

Mandatory

sscLevel

{ sscEntry 3 }

Description

The level (L) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.3

Data Type

Integer

Access Policy

Read only

Status

Mandatory

sscSlot

{ sscEntry 4 }

Description

The slot (S) where the card resides.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.4

Data Type

Integer

Access Policy

Read only

Status

Mandatory

sscStatus

{ sscEntry 5 }

Description

Indicates the current status of the card.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.5

Data Type

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

Value	String
1	active
2	maintenance
3	diagnostics
4	outOfService
5	standby

Access Policy

Read-write

Status

Mandatory

sscRevVer

{ sscEntry 7 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.7

Data Type

DisplayString (1 to 5 alphanumeric characters)

Access Policy

Read only

Status

Mandatory

sscPhyAdd

{ sscEntry 8 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.8

Data Type

Integer

Access Policy

Read only

Status

Mandatory

sscAlarm

{ sscEntry 9 }

Description

Tracks where alarms are active on this card.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.9

Data Type

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

Value	String
1	cardFailureMinor
2	portFailureMinor
3	cardAndPortFailureMinor

Access Policy

Read only

Status

Mandatory

sscErrorStatus

{sscEntry 10}

Description

Registers the last error that occurred on this card entry. For a complete list of errors, refer to Appendix A, “Card Error Messages”.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.10

Data Type

Integer

Access Policy

Read only

Status

Mandatory

sscOwnerString

{sscEntry 11}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.11

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

sscEntryStatus

{ sscEntry 12 }

Description

The status of this SSC Entry.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.12

Data Type

EntryStatus

Access Policy

Read-write

Status

Mandatory

sscDwnldVersion

{ sscEntry 13 }

Description

Version/revision of the card download file.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.13

Data Type

DisplayString (size 1..4)

Access Policy

Read only

Status

Mandatory

sscUpgradeState

{ sscEntry 14 }

Description

The upgrade state of this Subrate Service Card entry.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.14

Data Type

UpgradeState

Access Policy

Read only

Status

Mandatory

sscTableLastModified

{ ssc 20 }

Description

The upgrade state of this Subrate Service Card entry.

Object Identifier

1.3.6.1.4.1.886.1.7.19.1.20

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

Subrate Configuration and Statistics

Subrate configuration and statistics enables the user to configure the resources associated with the subrate card. This also provides statistical run-time data.

subrateTimeSlots

{ subrate 1 }

Description

Defines the size of the subrate matrix managed by the system and specifies the number of backplane timeslots allocated for subrate use. SSC timeslots are assigned one-to-one to destination bearer channels. A 1000-timeslot matrix handles up to 8000 8-Kbps subrate connections.

Object Identifier

1.3.6.1.4.1.886.1.11.1

Data Type

Integer. The total number of timeslots available ranges from 0 to 4096. The total number of paths available ranges from 0 to 2048 in increments of 8 (two timeslots equal one path). Zero (0) is only valid if there are no subrate cards in the system. Round the set values up to the next highest multiple of 8 (initial value: 0).

Access Policy

Read-write

Status

Mandatory

subrateRedundancy

{subrate 2}

Description

Enables or disables subrate card redundancy.

Object Identifier

1.3.6.1.4.1.886.1.11.2

Data Type

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

Value	String	Meaning
1	off	No card level redundancy is activated.
2	on	Card level redundancy is activated.

Access Policy

Read-write

Status

Mandatory

Default Value

2 (on)

subrateThreshold

{subrate 3}

Description

Specifies the timeslot threshold level (in percentage of capacity) that, when reached, generates an alarm condition. Subrate connections consume timeslots.

Object Identifier

1.3.6.1.4.1.886.1.11.3

Data Type

Integer. Valid entries are from 1 to 99.

Access Policy

Read-write

Status

Mandatory

Default Value

75

subrateFailAlarm

{subrate 4}

Description

Alarm severity for total loss of subrate. This condition exists if the active and standby subrate cards fail or are removed from service. No subrate connections are made and all established subrate connections are lost. Cleared when at least one subrate card returns to service.

Object Identifier

1.3.6.1.4.1.886.1.11.4

Data Type

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

Value	String
1	Fatal
2	Critical
3	Major
4	Minor
7	nonAlarmedEvents
8	clear

Access Policy

Read-write

Status

Mandatory

Default Value

Major

subrateRedundAlarm

[subrate 5]

Description

Alarm severity for loss of subrate redundancy. This condition exists if one of the subrate cards in a redundant configuration fails or is removed from service. There is no loss of service for this condition. This condition is cleared when the nonactive subrate card returns to service and is fully synchronized to the active subrate card.

Object Identifier

1.3.6.1.4.1.886.1.11.5

Data Type

Integer. Possible values and their meanings are shown in the following table. Default value is 4 (minor).

Value	String
1	Fatal
2	Critical
3	Major
4	Minor
7	nonAlarmedEvents

Access Policy

Read-write

Status

Mandatory

subrateThresholdAlarm

[subrate 6]

Description

Alarm severity for timeslot threshold exceeded. This condition occurs if the timeslot threshold exceeds the warning level. This condition is intended as a warning indicator that subsequent subrate connection requests might fail due to timeslot capacity exhaustion. This condition is cleared when the timeslot usage drops to a level that is 10% less than the threshold.

Object Identifier

1.3.6.1.4.1.886.1.11.6

Data Type

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

Value	String
1	Fatal
2	Critical
3	Major
4	Minor
7	nonAlarmedEvents

Access Policy

Read-write

Status

Mandatory

Default Value

4 (Minor)

subrateTimeslotAlarm

{subrate 7}

Description

Alarm severity for timeslot exhaust condition. This condition occurs when all timeslot capacity is consumed by subrate connections. Any future subrate connection requests attempting to allocate additional subrate timeslots fail due to timeslot capacity exhaustion. Cleared when timeslot usage drops to the threshold warning level.

Object Identifier

1.3.6.1.4.1.886.1.11.7

Data Type

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

Value	String
1	Fatal
2	Critical
3	Major
4	Minor
7	nonAlarmedEvents

Access Policy

Read-write

Status

Mandatory

Default Value

3 (Major)

subrateTimeslotsUsed

[subrate 8]

Description

Current total timeslot usage.

Object Identifier

1.3.6.1.4.1.886.1.11.8

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateMaxTimeslots

{subrate 9}

Description

High water mark for total timeslot usage.

Object Identifier

1.3.6.1.4.1.886.1.11.9

Data Type

Gauge

Access Policy

Read only

Status

Mandatory

subrateTable

{subrate 10}

Description

Fixed table of the available subrates. This table contains both configurable attributes, as well as statistical run-time data.

Object Identifier

1.3.6.1.4.1.886.1.11.10

Data Type

Sequence of SubrateEntry

Access Policy

Non accessible

Status

Mandatory

subrateEntry

{subrateTable 1}

Description

An entry in the subrate table.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1

Data Type

SubrateEntry

Access Policy

Non accessible

Status

Mandatory

SubrateEntry

Sequence

subrateIndex	Integer
subrateKBps	Integer
subrateIdleMode	Integer
subrateIdlePattern	Integer
subrateIdleTrunkPhyAdd	Integer
subrateIdleTrunkIndex	CardIndex
subrateIdleTrunkSpan	Integer
subrateIdleTrunkPort	Integer
subrateIdleTrunkBitOffset	Integer
subrateCurrentConnections	Integer
subrateCurrentConnections	Integer
subrateCumulativeConnections	Integer
subrateMaxConnections	Integer
subrateTimeslotFailures	Integer
subrateOtherFailures	Integer

subrateIndex

{subrateEntry 1}

Description

The index to the subrate table.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.1

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateKBps

{subrateEntry 2}

Description

Represents the data rate supported by the subrate card. Subrate connections are made by breaking down a normal channel. A normal channel (8 bits wide) represents a data rate of 64 Kbps. The valid rate ranges from 8 Kbps to 64 Kbps.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.2

Data Type

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

Value	Meaning
1	Kbps8
2	Kbps16
3	Kbps24
4	Kbps32
5	Kbps40
6	Kbps48
7	Kbps56
8	Kbps64

Access Policy

Read only

Status

Mandatory

subrateIdleMode

{subrateEntry 3}

Description

Mode for idle generation: Fixed pattern or Trunk Definition.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.3

Data Type

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

Value	Meaning
1	Fixed
2	Trunk

Access Policy

Read-write

Status

Mandatory

subrateIdlePattern

{subrateEntry 4}

Description

For fixed idle mode, the fixed binary idle pattern, as a binary 8-bit integer. For fixed bit patterns, the idle code is specified by a bit map where each bit is defined as a 0 or a 1. The number of bits in the pattern is defined by the subrate channel (8 Kb has one bit; 16 Kb has two bits, and so forth). Fixed idle patterns are provided by the SSC in the first eight SSC timeslots. The fixed pattern mode is transmitted to subrate channels when they are not listening to other subrate channels.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.4

Data Type

Integer (0 to 255)

Access Policy

Read-write

Status

Mandatory

subrateIdleTrunkPhyAdd

{SubrateEntry 5}

Description

The physical address of the Idle Trunk Port card. Assigned when idle mode is trunk.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.5

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

subrateIdleTrunkIndex

{subrateEntry 6}

Description

For trunk idle mode, the card location of the idle trunk channel. For trunk port subrate channel configurations, subrate channels are set to listen to the specified RLSPB (rack, level, slot, port, bit) when they are not listening to other subrate channels. For the trunk mode, it is assumed that some external equipment is providing the idle data (or perhaps silence tone) for the subrate.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.6

Data Type

CardIndex

Access Policy

Read only

Status

Mandatory

subrateIdleTrunkSpan

{subrateEntry 7}

Description

For trunk idle mode, the card slot number of the idle trunk channel.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.7

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateIdleTrunkPort

{subrateEntry 8}

Description

For trunk idle mode, the port number of the idle trunk channel.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.8

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateIdleTrunkBitOffset

{subrateEntry 9}

Description

For trunk idle mode, the channel bit offset within the port of the idle trunk channel.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.9

Data Type

Integer (1 to 8)

Access Policy

Read-write

Status

Mandatory

subrateCurrentConnections

[subrateEntry 10]

Description

Current number of connections.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.10

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateCumulativeConnections

{subrateEntry 11}

Description

Cumulative number of connections.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.11

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateMaxConnections

{subrateEntry 12}

Description

High water mark for connections.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.12

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateTimeslotFailures

[subrateEntry 13]

Description

Failures due to timeslot exhaust.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.13

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateOtherFailures

{subrateEntry 14}

Description

Failures due to all other reasons.

Object Identifier

1.3.6.1.4.1.886.1.11.10.1.14

Data Type

Integer

Access Policy

Read only

Status

Mandatory

subrateErrorStatus

{subrate 11}

Description

The last error that occurred on this entry.

Object Identifier

1.3.6.1.4.1.886.1.11.11

Data Type

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

Value	String
6144	invalid-selection
6145	out-of-legal-range-data
6146	timeslots-must-be-multiple-of-8
6147	need-OOS-to-allocate-timeslots
6148	timeslot-capacity-exceeded
6149	card-is-not-a-linetrunk-card
6150	card-is-not-active
6151	illegal-physical-address
6152	need-OOS-to-change-idle-code-config
6153	not-valid-bit-offset-range
6154	illegal-pattern-for-this-subrate
6155	illegal-subrate-table-index
6156	subrate-data-can-not-be-locked
6157	subrate-config-not-locked-by-user

Access Policy

Read only

Status

Mandatory

subrateOwnerString

{subrate 12}

Description

The entity that configured this entry.

Object Identifier

1.3.6.1.4.1.886.1.11.12

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

subrateEntryStatus

{subrate 13}

Description

The modification status of this entry.

Object Identifier

1.3.6.1.4.1.886.1.11.13

Data Type

FixedTabEntryStatus

Access Policy

Read-write

Status

Mandatory

Drop and Insert (D+I) Card Group

The Drop and Insert (D+I) card provides DS0 transmission-only access to the VCO/4K system. It supports a maximum of eight interfaces per card, synchronous operation at either 56 KB or 64 KB. The D+I card is configurable as DCE or DTE with normal or reverse bit-packing, and supports both EIA/TIA-449 and V.35 signal specifications for dates and clock leads only. The D+I card can be inserted into the system while the system is active.

**Note**

EIA/TIA-449 was known as recommended standard RS-449 before its acceptance as a standard by the Electronics industries Association (EIA) and Telecommunications industry Association (TIA).

Drop and Insert (D+I) Card Table

Use the Drop and Insert (D+I) Card Table to add, delete, or modify Drop and Insert Cards.

dniCardTable

{ scc 21 }

Description

The Drop & Insert (D&I) card configuration table.

Object Identifier

1.3.6.1.4.1.886.1.7.21

Data Type

Sequence of DniCardEntry

Access Policy

Not accessible

Status

Mandatory

dniCardEntry

{ dniCardTable 1 }

Description

An entry in the dniCard configuration table.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1

Data Type

DniCardEntry

Access Policy

Not accessible

Status

Mandatory

dniIndex

{dniCardEntry 1}

Description

The value of this object uniquely identifies an entry in the dniCard 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

1.3.6.1.4.1.886.1.7.21.1.1

Data Type

CardIndex

Access Policy

Read only

Status

Mandatory

dniCardRack

{dniCardEntry 2}

Description

The rack (R) that the card occupies.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.2

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniCardLevel

{dniCardEntry 3}

Description

The level (L) that the card occupies.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.3

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniCardSlot

{ dniCardEntry 4 }

Description

The slot that the card occupies.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.4

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniCardStatus

{ dniCardEntry 5 }

Description

Indicates the current status of the card. Possible values can include the following:

Value	Status	Description
1	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.)
4	outOfService	No ports on this card can be involved in active calls; no ports are allocated to new calls.
5	standby	Valid for one of the two NBC cards in redundant systems only, one or more DTG cards in either a redundant or nonredundant system, or BRCs.
9	gracefulIdle	No ports on this card are allocated to new calls.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.5

Data Type

Integer

Access Policy

Read-write

Status

Mandatory

dniCardUnusedPorts

{dniCardEntry 6}

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.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.6

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniCardType

{dniCardEntry 7}

Description

Indicates the type of card; in this case it is a Drop & Insert card. This value is always 39.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.7

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniCardRevVer

{dniCardEntry 8}

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

1.3.6.1.4.1.886.1.7.21.1.8

Data Type

DisplayString (SIZE (1..5))

Access Policy

Read only

Status

Mandatory

dniCardPhyAdd

{dniCardEntry 9}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.9

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniCardAlarm

{dniCardEntry 10}

Description

This value tracks which alarms are active on this card. Valid values are:

Value	Alarm status
1	cardFailureMinor
2	portFailureMinor
3	cardAndPortFailureMinor
4	none or unknown alarm

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.10

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniCardErrorStatus

{ dniCardEntry 11 }

Description

Registers the last error that occurred on this card entry. For a complete list of errors, refer to Appendix A, “Card Error Messages”.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.11

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniCardOwnerString

{ dniCardEntry 12 }

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.12

Data Type

OwnerString

Access Policy

Read-write

Status

Mandatory

dniCardEntryStatus

{ dniCardEntry 13 }

Description

The status of this D&I card entry.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.13

Data Type

EntryStatus

Access Policy

Read-write

Status

Mandatory

dniCardDwnldVersion

{dniCardEntry 14}

Description

Version/revision of the card download file.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.14

Data Type

DisplayString (SIZE (1..4))

Access Policy

Read only

Status

Mandatory

dniCardUpgradeState

{dniCardEntry 15}

Description

The upgrade state of this D&I card entry.

Object Identifier

1.3.6.1.4.1.886.1.7.21.1.15

Data Type

UpgradeState

Access Policy

Read only

Status

Mandatory

dniCardTableLastModified

{dniCardEntry 16}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.22

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory

Drop + Insert (D+I) Card Port Table

The D+I port table enables you to assign a name, a hardware type, a default impulse rule, and a class of service (COS) to individual ports on a D+I card.

dniPortTable

{scc 23}

Description

A list of port entries on each D&I card.

Object Identifier

1.3.6.1.4.1.886.1.7.23

Data Type

Sequence of DniPortEntry

Access Policy

Not-accessible

Status

Mandatory

dniPortEntry

{dniPortTable 1}

Description

An entry containing objects belonging to a particular port.

Object Identifier

1.3.6.1.4.1.886.1.7.23.1

Data Type

DniPortEntry

Access Policy

Not-accessible

Status

Mandatory

dniPortIndex

{dniPortEntry 1 }

Description

Indicates the port number on the card. There are 8 ports on a D+I card.

Object Identifier

1.3.6.1.4.1.886.1.7.23.1.1

Data Type

Integer (1..8)

Access Policy

Read only

Status

Mandatory

dniPortState

{dniPortEntry 2 }

Description

The state of port can be changed to active or inactive. State changes on ports should only be performed one at a time.

Object Identifier

1.3.6.1.4.1.886.1.7.23.1.2

Data Type

Integer (Set to 1 for Active or 2 for Inactive)

Access Policy

Read-write

Status

Mandatory

dniPortMajorState

{dniPortEntry 3}

Description

The major state of the port.

Object Identifier

1.3.6.1.4.1.886.1.7.23.1.3

Data Type

PortMajorState

Access Policy

Read only

Status

Mandatory

dniPortSuppState

{dniPortEntry 4}

Description

The supplementary state of the port.

Object Identifier

1.3.6.1.4.1.886.1.7.23.1.4

Data Type

PortSuppState

Access Policy

Read only

Status

Mandatory

dniPortAddress

{dniPortEntry 5}

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

1.3.6.1.4.1.886.1.7.23.1.5

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniPortErrorStatus

{dniPortEntry 6}

Description

Registers the last error that occurred on this port entry.

Object Identifier

1.3.6.1.4.1.886.1.7.23.1.6

Data Type

Integer

Access Policy

Read only

Status

Mandatory

dniPortOwnerString

{dniPortEntry 7}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.23.1.7

Data Type

Owner string

Access Policy

Read-write

Status

Mandatory

dniPortEntryStatus

{dniPortEntry 8}

Description

The status of this table entry.

Object Identifier

1.3.6.1.4.1.886.1.7.23.1.8

Data Type

PortEntryStatus

Access Policy

Read-write

Status

Mandatory

dniPortTableLastModified

{dniPortEntry 9}

Description

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

Object Identifier

1.3.6.1.4.1.886.1.7.24

Data Type

TimeTicks

Access Policy

Read only

Status

Mandatory